

# KANSAS FARMER

For the improvement

of the Farm and Home

Volume 52, Number 38. TOPEKA, KANSAS, SEPTEMBER 19, 1914. Established 1863. \$1 a Year

**N**OTHING so broadens the mind and enlarges the vision as a visit to a great exposition or fair. Valuable suggestions are on every hand. The open mind makes the most of these on the return home.

The man who never gets outside the round of his daily toil finds it increasingly difficult to see beyond the furrow he has created.

A careful study of the improved types of live stock seen at the fair, show most strikingly how inadequate the home live stock may be to efficiently fulfill the purpose for which they are being kept.

Perhaps some inefficient method or piece of machinery has been in use as a result of the "stay at home" policy. Perhaps the good wife whose hours of work are often longer and more arduous than her husband's has been struggling along without the labor saving devices she should have had. It takes sharp comparisons to stimulate progressive action. A man may be brought up with a sudden jolt as he contemplates what he might have done for his faithful companion and partner in toil.

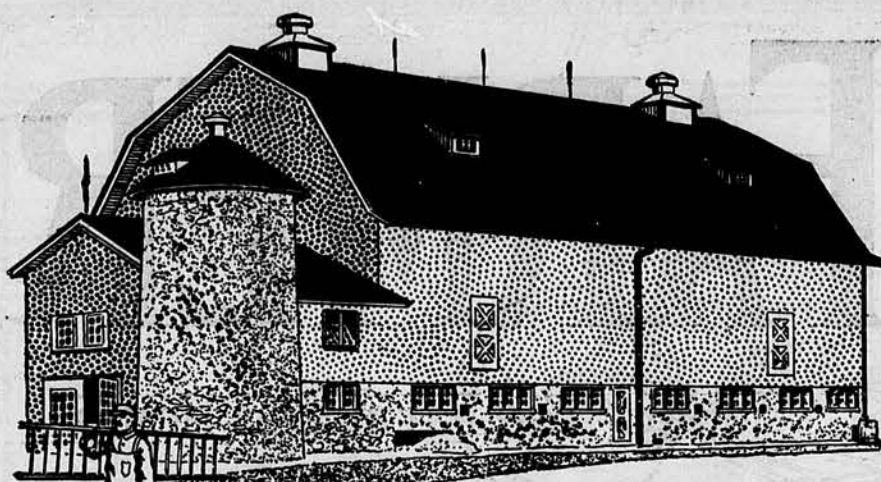
If he returns to the home with these many lessons so well learned as to compel immediate action, the time away has been well spent. Why not catch step with the forward ranks in the march of progress?

—G. C. W.



*"We Must Have Modern Equipment and Better Live Stock"*





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# LIVE STOCK



### An Early Colt Show.

A colt show formed the most interesting feature of the first day's program of the recent 18th annual celebration of Ohio Day at Waverly, Kansas. It was the privilege and pleasure of the associate editor of KANSAS FARMER to be present at this colt show. It might be said in passing, however, that the duty of passing judgment on a bunch of colts is not altogether a pleasant one. The judge on such an occasion is quite often in the position of the umpire of the baseball game—a most necessary official, but far from being the popular man at the time the ribbons are being tied.

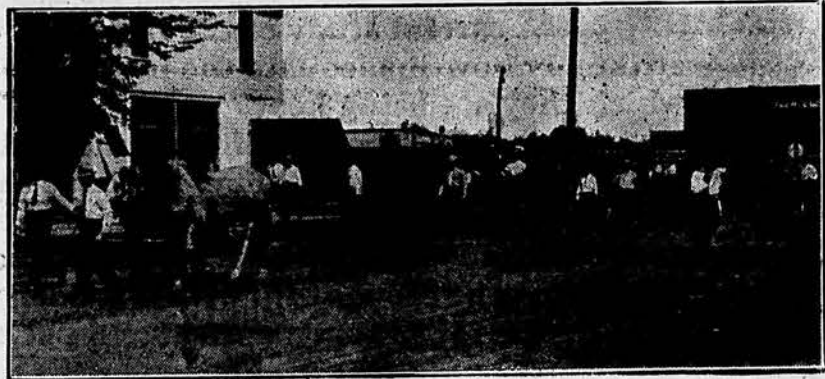
We found on exhibition at the colt show over twenty colts, including mules. A few most excellent stallions and jacks are owned in this neighborhood and the colts shown gave evidence of this good blood. We cannot help but notice, however, that a good colt was nearly always following a good mother. There has been far too little attention given through this section as well as other parts of Kansas to the matter of

mares that have been kept at hard work cannot make the growth they should unless they are given an extra care and attention. Under these conditions the colts should be taught to eat grain as early in life as possible and should have this grain supplied regularly. It is practically impossible to overcome the stunting effect of hard treatment and shortage of feed during the first few months of the life of a colt. Big horses must have plenty of feed during the growing period if they are to grow out to their full size. Well bred draft colt will always pay for the extra grain that is given to it during the first year of its life.

### Pasturing Alfalfa—California View.

Whether or not cattle can be safely pastured on alfalfa is at all times in Kansas a live question and regarding which various views are always interesting. A Californian writing in a farm paper gives his experience and from which the following points are taken:

He says in the first place that the agricultural college of California seems



COLTS AT WAVERLY COLT SHOW PARADING TO PARK FOR JUDGING.

breeding horses in accordance with market requirements. The great bulk of horses that go to our markets are of such nondescript character as to be unclassified, they are really the misfits and discards from regular market classes. On the farms at the present time the only profitable colt to raise is the colt of distinctively draft breeding. Light boned, rangy mares cannot produce market horses of this type. There is also a tendency toward the production of a large number of pony built horses, commonly known as chunks, on the market. Mares of this type do not produce, even though mated with horses of excellent type, as good colts as mares having more size and better draft conformation.

There is keen competition in the market for horses of the distinctly draft type. Those who have not studied the horse markets closely would be surprised at the difference in prices received for horses of the nondescript class and those really belonging to the draft type. This keen competition for really good draft horses is perhaps largely responsible for the inferiority of the mares used on many of our farms. Money is oftentimes seriously needed and when a horse buyer comes to town the temptation to sell the ones bringing the most money is often too great to resist.

The colt show at Waverly came really too early in the season. A number of May colts were shown and it is difficult to compare these younger colts with the March and April colts. A month or two later the May colts will have developed sufficiently so that they are not so apt to be passed over without proper consideration. It so happened at the Waverly show that the first place in the open class went to one of these younger colts. What this colt does during the next month or two may have considerable bearing as to its proper ranking and it is possible that two months from the present time the decisions would have to be changed somewhat.

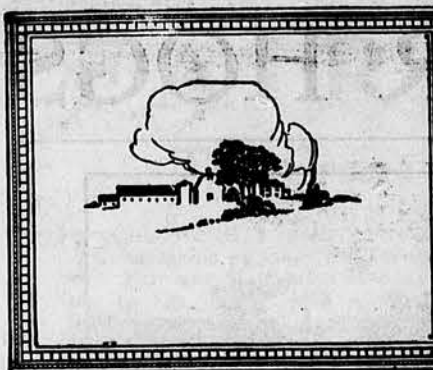
A few colts were noted in this show which were clearly outclassed because they had not had a chance. There is no time when an animal is so much in need of an abundance of the proper amount and kind of food as during the first few months of his life. The colts suckled by

to have established that the stages of growth at which alfalfa is pastured has little to do with bloating. The theory prevailing in his section of the country is that bloating is caused by bacteria or ferment found in the alfalfa plant. These when taken into the digestive apparatus are supposed to result in bloating. If the plants are wet from dew or rain, the likelihood of bloating is much increased. Whether the above theory is correct or not, the writer says he is sure that alfalfa should not be pastured when the plants are wet.

It is his opinion that cattle not used to feeding on green alfalfa should not be pastured long thereon at first, but that an hour the first day, two hours the second, and reaching full pasture within a week, is the best plan. Animals should not be turned into alfalfa pasture when extremely hungry. Under such conditions they are apt to gorge themselves to the point of bloating just as cattle will do on other green feeds. It is his judgment that cattle should be fed dry roughage or hay before being turned onto alfalfa and this particularly so when the animals are not thoroughly accustomed to the alfalfa. He thinks, though, that this is a good plan to pursue even after the animals are accustomed to alfalfa pasture and are having it as regular diet. Many California dairymen, he says, are pasturing in this way, and it seems safe. The writer states that few cases of bloating will occur if the above methods of pasturing are practiced judiciously.

This same writer gives the following remedies for treating bloat and which, he says, have proven effective: In mild cases a wooden gag held in place by rope or strap over the head will give relief. The bloated animal should be kept moving. In more serious cases a tablespoonful of creolin in a pint of raw linseed oil will effect a cure. One ounce of turpentine given in a pint of raw linseed oil is another good remedy. Still another recommended by the California experiment station is an ounce of ammonium carbonate in a pint of warm water. He says that in case either of these treatments fails to give results, the tapping of the paunch with a knife or trocar and canula will give immediate relief.





# KANSAS FARMER

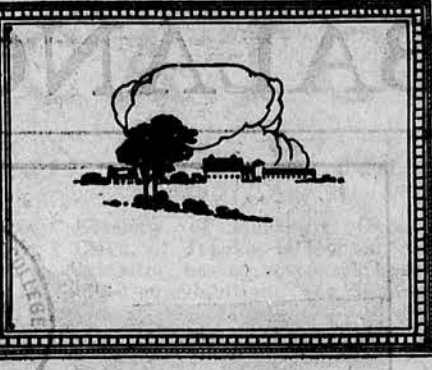
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## SILOS IN KANSAS.

KANSAS FARMER compiled the first silo census for Kansas. This showed, according to the estimates of our correspondents, 6,979 silos. In March this year, for the first time, county assessors were called upon to enumerate silos, and Secretary Mohler of the Kansas State Board of Agriculture has just compiled their returns, finding that the state has 7,187 silos, or 158 more than KANSAS FARMER's correspondents reported. Our figures on the individual counties do not so closely correspond with the assessors' returns in every instance, but the figures for the state as a whole are so close as to warrant placing a reasonable degree of reliability upon figures similarly compiled from our corps of reporters. We have from three to five carefully selected correspondents in each county in Kansas and these are gentlemen whose figures on various phases of agricultural activity are so frequently reported in our columns. Gentlemen, the honors are yours—we take credit only for initiating the inquiry. Here is what Secretary Mohler says:

"Taking the report as authentic that there were only 60 silos in Kansas in 1909, the increase in the five years amounts to 11,800 per cent. It would be difficult indeed to conceive of a more convincing statement that Kansas farmers are finding it profitable to can their corn and sorghums to provide succulence in the winter's menu for their live stock.

"Assuming that the average capacity of the silos in Kansas is 125 tons each, it would mean that nearly 900,000 tons of forage would be required to fill the total number. This quantity of silage, at 30 pounds a day for each animal, would feed the state's milk cows for 70 days, and it is in communities where dairying is most prominent that the greater number of silos are, although increasing numbers of beef makers are finding them valuable adjuncts to their business.

"While conditions vary widely in Eastern and Western Kansas, returns indicate that owners in both portions are of one mind regarding the value and economic importance of the silo. The man with the pit silo, filled say with kafir, in Western Kansas, is no less satisfied with results than is the farmer with the above-ground kind filled with corn, in Eastern Kansas. Silos are reported in greater or less numbers in each of the state's 105 counties, except Morton, Stanton, Haskell and Wichita, four counties on or near the western border. This widespread distribution suggests that the husbandmen generally are looking with favor on these feed receptacles as a means to greater prosperity. While the increase in the use of silage is gratifying, there remain many homesteads not graced by this structure that denotes thrift and progressiveness. In fact, there is only one silo to every twenty-four farms in the state.

"Forty-eight per cent of the silos in Kansas are in the eastern third. About 85 per cent are in the eastern half, and more than a third of the state's silos are in twelve counties in this part. Of these, however, it is not the largest that has the greatest number of silos. Lyon County leads with 262; Reno second with 259; Sedgwick third with 247; Franklin fourth with 205; Anderson fifth with 201, followed in order by Butler, 197; Wabaunsee, 179; Greenwood, 177; Osage, 174; Dickinson, 172; Labette, 170, and Jewell, 151. It is interesting to note that Franklin County has a silo for every 2.81 square miles of its territory, with Anderson a close competitor for this honor, with one for each 2.87 square miles."

## SELECTING THE BOAR.

Breeders and pork producers are, or should be, in the market at the time of this writing for good boars to sire the next season's crop of pigs. The selection of this boar is a matter of considerable importance. If the animal selected is not of good type and does not possess considerable individual excellence, the results are likely to be far from satisfactory. One boar sires a lot of pigs in a season and it would be

a "penny wise and pound foolish" policy to try and see how cheap a hog could be secured.

A mongrel in breeding never should be used as a sire, however good he may be as an individual. Such a sire is absolutely lacking in prepotency and it is impossible to predict from his appearance what sort of pigs he will sire.

In selecting the male, the sow herd should be studied carefully for deficiencies in market form and type, which should be corrected. Oftentimes the proper consideration of this point will result in great improvement in the herd.

The proper place to buy the boar is from the herd of a well established and reliable breeder of the kind and type desired. It is not necessary to pay extremely high prices, but it should be remembered that no reliable breeder can build up a herd and do all the things necessary in this line of the live stock business and sell high-class breeding stock at market prices for pork.

It is always best to go and study the herd from which the boar is to be purchased if possible and personally select the animal. Sometimes this personal selection can be made at some show where the breeder has a herd on exhibition. Sometimes there comes the temptation to buy what is really a cull from a good breeding herd in order to save money. Some breeders offer such pigs on the basis of the pedigree back of them. The best breeders, however, do not lower the reputation and standing of their herds by selling inferior animals.

In buying by mail the standing of the breeder is of great importance. It is a good plan to select a number of names from the advertisements in some reputable paper and write to all for prices and descriptions. The breeder should be given as much information as possible concerning the character of the brood sows in the herd. The wise breeder will do his best to transfer the value of his experience to his customer in the selection he makes. It is the desire of the breeder to have his stock make good so his customer may become a permanent one. It is to his interest to give the best of his experience to the mail order customer.

After a well bred properly grown out boar has been purchased and received at the farm, his future handling may be such as to greatly impair his usefulness. A boar that has been well fed and properly cared for should never be turned in with a lot of sows and left to shift for himself. It is a most radical change from his treatment previously and the breeder should not be blamed if he does not do well. The breeder could give valuable advice regarding the handling of the young boar and will gladly do so if such advice is solicited.

The young boar can be used for light service at nine months of age if properly developed. He could safely be used every other day without impairing his future usefulness. The most successful hogmen do not turn boars in with the herd of sows. It takes more time to keep the boar up, but in the long run the results will well repay the extra time and attention required. A good breeding crate is almost a necessity on the up-to-date hog farm. This equipment will greatly enlarge the usefulness of a really high-class boar.

## STUDY HAYS METHODS.

The people of Kansas should remember that at all times the farming public is welcome as guests at the Manhattan Agricultural Experiment Station, including the branch stations located at Hays, Colby, Dodge City, Garden City and Tribune. Visitors will be shown at all times those features of the work at each station in which they are most interested. No special occasion need be awaited nor invitation sought. These demonstration farms belong to the people of Kansas and are operated in their interest and the people should take the initiative in creating opportunity to inspect and profit by the work being done. The work at each of these stations is of a thoroughly practical character and is intended for no purpose other than to demonstrate the methods by which added permanency and increased prosperity

can come to those who will profit by the examples set.

On August 25 a general invitation was extended to Kansas farmers to spend the day at the Fort Hays farm and observe the great variety of sorghums and other feed crops there grown in a demonstrative way this season. Even though on that day farmers of the West were especially busy because a recent rain permitted activity in preparing ground for wheat, fifty interested farmers and their families spent the day at the station. The station staff devoted the day to the guests, showing the visitors how the station grows its seed breeding fields of grain from which pure strains of farm seeds are secured for distribution throughout the state. This work is done aside from the particular experimental projects. This year the station has a number of varieties of corn and sorghums growing under dry farming conditions. Many of these varieties had matured and were in shock on the day of the visit but the yield of forage and of grain from the harvested crops was readily appreciated. Other varieties of each of these crops were still standing with good promise of producing grain this season and at this date have matured.

A number of the visitors expressed surprise that so far west as Hays, corn as good as that shown could be grown. The grain sorghum fields were of special interest, this centering around the several varieties. The earliness of maturity and the dry weather resistance resulting in continued uninterrupted growth and seed bearing were of special interest. The methods of planting and the methods of soil tillage employed were also points of interesting observation inasmuch as these methods are intended to demonstrate the most profitable in the production of grain sorghums and fodder crops for the sections of light rainfall. Manifestly the Hays station has been successful in this work the last three years, as is demonstrated by the fact that during these years an abundance of feed has been produced on the farm for the large number of live stock there maintained.

The visitors were shown the actual work of pit silo construction. Another feature was the harvesting of crops for silage, the cutting and packing of the same in one of the station silos. A considerable number of the visitors had not before had opportunity to observe silo filling and were much interested in the processes of storing green feed in the silo. It is certain that as a result of this silo demonstration, together with those which demonstrated the methods of growing and cultivating the "sure feed crops," will lend a considerable impetus to the building of silos, the growing of feed crops and the maintenance of live stock on the western farm.

Sections of Missouri have suffered severely from lack of rain during this growing season and it is gratifying to Kansans to know that during the last week of August from two to six inches of rain fell throughout that state. One man tersely tells the story: "Very dry until the last few days when good rains have put life in vegetation, water in ponds and cisterns, and vim in the farmer." The Missouri Board of Agriculture at the close of August reported the condition for corn for the entire state as 56.8, or slightly better than a half crop. Sectional averages are: Northeast Missouri, 59; Northwest, 65; Central, 60; Southwest, 67; Southeast, 34.

Premium list for the International Live Stock Exposition to be held at the Union Stock Yards, Chicago, November 28 to December 5, can be had upon application to P. H. Heide, Secretary, Chicago, Illinois. This exposition is each year bigger and better than that of the preceding year. Its development has really been marvelous. It has extended its interests until now practically everything pertaining to the agriculture of this country can there be seen. It is well worth while for every farmer who can to make arrangements for a week's visit at this exposition.

## WILL WESTERN KANSAS FOLLOW?

Western Texas is building many silos. On September 1, 1914, there were in the state 8,560 silos and 4,800 more in course of construction or contracted for. Every kind of silo in existence is used in Texas. The pit or underground silo predominates in the Panhandle and those of cement, wood and steel predominate farther east. The silos now being constructed are much larger than those first built. The average capacity of the Texas silo at present is 120 tons. A year ago it was 100 tons, and those being built this season will average 140 tons. In the Panhandle of Texas there are 1,500 silos.

The reader should keep in mind that the Panhandle counties are those 46 counties lying west of a line between Meade and Clark counties in Kansas and extending to the west line of Texas and south to the south line of New Mexico. The Panhandle of Texas is a territory to which frequent reference is made, and it will be worth while for the reader to locate this section as above described on his map. The annual precipitation of these counties is about the same as those counties in Kansas in the same line north and which are west of the line between Meade and Clark on the south and Decatur and Norton on the north. The crop growing conditions in the Panhandle are probably more severe than prevail in those counties in Kansas west of the above described line. This relative to the Panhandle of Texas is important because it reveals how the farmers of those counties feel the necessity for depending upon live stock as the principal source of income.

Because of the similarity of conditions prevailing in the Panhandle as compared with those conditions prevailing in Western Kansas, we submit that our western farmer can afford to follow the example set by the farmers of Texas. The Texas farmer has no more intelligence than the Western Kansas farmer, but in the matter of growing grain sorghum crops, in building silos and in depending upon the cows and calves, horses and mules for his support, he is taking the lead of the Western Kansas settler.

It is true that the Panhandle of Texas cannot grow as much wheat as the Western Kansas farmer, and that this has something to do with his pursuing a different line of farming, but if the growth of feed crops and the feeding of the same to live stock is a success under Panhandle conditions, it should be more successful under the conditions prevailing in Western Kansas. It very often pays for the farmers of one locality to know what the farmers of another locality are doing, particularly so when the conditions prevailing in the two localities are quite similar. The above reference to the number of silos in the western part of Texas is regarded as revealing to the farmer of Western Kansas those methods which he also can well afford to imitate.

Great success is claimed, in certain sections of Kansas, for irrigation carried on by means of windmills or with some type of pump and engine. The leaders in the Kansas irrigation movement hope that the discussion of Kansas problems at the State Irrigation Congress, Scott City, September 22 and 23, will result in much good to the farmers of the part of the state where irrigation can be practiced. The program of the congress has been augmented by the promise of Dr. F. H. Newell, director of the United States reclamation service at Washington, to speak. J. H. Miller, dean of the extension division of the Kansas State Agricultural College, and J. C. Mohler, secretary of the State Board of Agriculture, have also promised to be present.

May Rilma, the Guernsey cow holding the world's record for butter fat production, was recently sold in the dispersion sale of Edward B. Cassett for \$5,010. This cow produced 1,059.55 pounds of butter fat in one year. This remarkable production was graphically shown at the Topeka fair by a great pyramid of butter tubs representing the amount of the production.



# BALANCED RATION FOR HOGS



THESE HOGS BELONGING TO R. L. MILLER, OF JACKSON COUNTY, KANSAS, WERE SHIPPED IN FROM THE OZARKS JULY 21, BEING IMMUNIZED AT KANSAS CITY EN ROUTE.—IN THIS LOT 2,100 ARE BEING FED, THE RATION BEING NEW CORN AND TANKAGE.

## *Corn or Kafir Alone for Hogs Unprofitable Feed—Meat Meal or Tankage Best Supplement in Fattening Pen—Feeding Suggestions—G. C. Wheeler*

**T**HE problem facing the pork producer at the present time is that of securing the greatest amount of gain possible from the high-priced corn, wheat and other grain he may use in finishing his hogs for market. None of these grains can be profitably used as the exclusive fattening feed. The proper balancing of these grains for hog feeding with some highly nitrogenous supplemental feed, such as meat meal or tankage, is necessary if profits are to be secured in the finishing of the hog for market.

It is now an accepted fact that corn and kafir, valuable as they are in finishing hogs for market, are deficient in protein and mineral matter, and hogs fed on these grains alone make most unprofitable gains. Just how unprofitable these results are, some experiments now in progress at the Kansas Experiment Station strikingly illustrate. Under farm conditions hogs very seldom are so handled as to receive corn as a sole ration, except possibly during the finishing period. In these tests which have now been in progress for two years, pigs are grown under such conditions and surroundings as to preclude the possibility of their securing even the smallest amount of any other feed from weaning time up, but corn. The absolute failure of corn under these conditions serves to emphasize the necessity for the farmer who would secure the most satisfactory results, to study most carefully the proper balancing of his ration for finishing hogs for market.

### QUESTIONS REGARDING RATIIONS.

Questions of this kind are continually arising in the mind of the man having hogs to finish for market. The following inquiry from our correspondent, R. G. M., of Rice County, suggests the general trend of these inquiries: "At the present high prices of wheat and corn, what would you suggest as the most economical and profitable ration for growing and fattening hogs?"

The growing of the present crop has already been largely accomplished and the problem now to consider is the finishing of these hogs so as to get the largest quantity of pork possible from a given value of feed. The answer in brief is to supplement the corn, wheat or kafir fed with a quantity of meat meal or tankage equivalent to from 5 to 8 per cent of the total ration fed. A plentiful supply of skim milk where available will accomplish the same purpose when fed in connection with grain.

### FEEDING SHIPPED-IN STOCKERS.

Ordinarily the hogs finished for market on the Kansas farms are grown on the farm where they are finished. The practice of buying stock hogs and finishing them as stock cattle are purchased and finished is seldom followed. The fact that all public stock yards are infected with hog cholera is responsible in the main for this practice not being generally followed. A Jackson County feeder, however, has dipped into this feeding of stock hogs shipped in from the outside, in rather a large way, and the results of this man's operations may be interesting in showing what can be

done as a result of properly balancing the rations fed to a bunch of hogs in a dry lot.

In order to make a test as to what the dry lot feeding of properly balanced rations could accomplish with feeds at the prices they are at the present time, this feeder brought in from Oklahoma early in the summer 300 head of stock hogs. It was necessary, of course, to first immunize these hogs. Part of them had already gone through this process, but 50 were newly vaccinated and this somewhat retarded their gains in the beginning of the test. The hogs averaged 150 pounds when they were placed in the feed lot. Their ration consisted of shelled corn and a slop or swill consisting of linseed oil meal and shorts mixed up quite thin with water. They were given all the corn they could eat and all this slop they could drink. The average feed consumed daily by the 300 head during the fifty days they were so fed amounted to 27 bushels of corn, 30 pounds of shorts and 200 pounds of oil meal.

After fifty days of feeding the hogs averaged 224 pounds each, having made a total gain of nearly 75 pounds per head, or at the rate of 1½ pounds daily. This is a most excellent gain. The corn fed was shipped in and cost 75 cents a bushel. The hogs brought \$8.87½ in Topeka, this being within 2½ cents of the top price paid at Kansas City that day.

After deducting the cost of the hogs delivered in the feed lots at \$8.25 per hundred, the cost of the feed consumed and the labor involved, the bunch returned a profit of about \$300 for the fifty days of the test.

### HOG FEEDING ON LARGE SCALE.

This satisfied the feeder that healthy hogs fed properly balanced rations, even with corn at 75 cents a bushel, would return good profits with pork at the price it is now bringing. This same feeder has now taken up the feeding of hogs in a larger way. As soon as the bunch already mentioned were marketed, he set about securing a large drove of stock hogs from the Ozark region of Missouri. Over 5,000 hogs were purchased. He held them at Kansas City long enough to give them the simultaneous vaccination for immunization against cholera, and then shipped them to his several feeding headquarters in Jackson County. They arrived July 21, weighing an average of 50 pounds per head. The cost of laying down these hogs at the feeding yards, including all charges, amounted to \$9.25 per hundred.

Following the vaccination the hogs were fed lightly on ground wheat. The losses from the vaccination will amount to about 10 per cent, which is a very low loss considering the fact that such a large number of hogs were gathered together and all vaccinated without regard to the condition they might be in at the time. New corn has gradually been added to the ration of these hogs, and as a protein supplement tankage is being used at the rate of about one-fourth pound daily per hog. The largest drove, which now consists of 2,100 head,

is consuming daily from six to seven loads of corn. The cut on this page illustrates the feed lot in which these hogs are being fed. At the end of the third week a representative bunch were weighed, showing a gain of 11 pounds.

### KANSAS STATION TESTS.

The value of meat meal or tankage as a supplement to corn in finishing hogs for market has been most carefully tested in scores of experiments at the various experiment stations of the Middle West. At the Kansas station the first test made was ten years ago, tankage being fed as one-sixth of the total ration. By way of comparison, rations of straight corn were fed and also rations in which soy bean meal was used as a protein supplement. From this time on most careful studies have been made, determining the most economical use of these valuable packinghouse by-products in hog feeding. These tests have involved the use of tankage or meat meal in varying quantities and in some of the tests the use of wheat and shorts has been introduced. The results of these tests were published in Bulletin No. 192 from the Kansas Experiment Station. This whole bulletin is full of the most valuable information for the hog feeder and, with the conditions prevailing at the present time, all kinds of grain being extremely high in price, it is well worth while to study carefully these various experiments and apply the information secured to the feeding problems of the farm.

### SUMMARY OF STATION TESTS.

In summarizing these experiments, some most interesting tables are given. In the course of the long series of tests reported in this bulletin, eight different lots of hogs, involving 72 year, were fed during the final finishing period upon corn alone. The tables show that the average daily gain made per hog amounted to only .914 of a pound and the cost in feed per pound of gain averaged 6½ pounds. Ten lots of hogs, involving 162 head, were fed rations of corn supplemented with varying amounts of meat meal or tankage, the amount fed being in no case greater than 10 per cent of the total ration. The average gains on these 162 hogs per day amounted to 1.58 pounds. The feed consumed per pound of gain was 4.72, making the gain cost at the rate of 5½ cents per pound. The cost on the straight corn lots amounted to 6 cents per pound.

Eighteen lots, involving 207 hogs, were fed corn supplemented with from 5 to 8 per cent of meat meal or tankage and from 25 to 30 per cent shorts. These 207 hogs averaged 1.53 pounds of gain per head daily at an expense of 4½ pounds of feed per pound of gain. The gains cost at the rate of 5.3 cents per pound. In this latter average a number of lots were involved in which the hogs were rather young. Eliminating these, and averaging ten lots of 144 hogs, we find the more mature hogs made average daily gains per head, on rations supplemented with shorts and the meat meal or tankage, of 1.7 pounds. The total feed required per

pound of increase was 4.58, costing 5 cents.

It is apparent that feeding corn alone in a dry lot is a practice which should never be followed if the most profitable returns are to be secured in feeding high-priced grain. In these properly supplemented rations, after paying the market price for the supplement, the corn fed returned values of over \$1 per bushel with pork selling at 8 cents. The hogman with good thrifty shoats on hand need not be discouraged at the high price of corn, wheat and other grains. What he should do is study carefully the proper supplementing of these high-priced grains with such high protein concentrates as tankage or meat meal in quantities not to exceed 5 to 6 or 8 per cent of the total ration.

If the grain fed is being ground, the proper proportion of tankage or meat meal can easily be mixed with the grain before feeding. It is necessary to wet this mixture at the time of feeding and feed in clean troughs. Most feeders in finishing hogs for market, especially early in the season, feed ear corn on the ground or on feeding floors. Under these conditions the tankage can be fed dry in troughs or spread out on a well-cleaned feeding platform. Some feeders even scatter tankage on clean hard places on the ground during dry weather. The hogs will lick up the tankage clean, although they are likely to be compelled to eat some dirt in so doing. The important point is to so feed the tankage or meat meal that every hog gets his proper share and no animal gets more than it should have. Where the proper allowance is only a quarter of a pound to a half pound per individual hog, it is an easy matter for some of the hogs to get too much. An over-feed of tankage may sicken the hog and get him off feed.

Where local dealers do not carry tankage or meat meal in stock, farmers desiring to secure it at the lowest rate should co-operate and order a carload direct from the packing house. It can be divided up in accordance with the needs of the various men concerned and the freight and other expenses properly apportioned.

When properly fed, no animal on the farm is so efficient as the hog for converting into meat the concentrated grain feeds. This year, while we do not have an enormous crop of corn, we still have enough to satisfactorily finish the hogs on the farms and secure a higher value for this corn than it will bring in the open market, providing it is properly supplemented.

Kansans will be pleased to know that a cablegram advises of the safety of Doctor Waters, who left Kansas May 15 for the heart of Central Asia, accompanied by a guard of Russian Cossacks, to study fur farming, in the hope of introducing a new industry into the United States. The situation in Europe has interfered with some of his plans, but this cablegram telling that he is safe with the product of his investigations, has relieved the anxiety of his friends.



# FAIR GREAT EDUCATOR

*The Cream of Live Stock Herds at Topeka State Fair This Week*

**F**OLLOWING a week of rainy, disagreeable weather, the Topeka State Fair opened its gates Monday morning to the public, with a prospect at least for clearing skies and a week of favorable fair weather. For the past two years this fair has been unfortunate in having a rainy week, which always results in a lessened attendance. The first day, as usual, was Grand Army day and children's day, and although the city schools began the year's work on this day, numbers of the boys and girls found opportunity to take advantage of the free admission granted to them.

The first thing catching the eye of the visitor entering the gates is the immense tent in which the evening horse show is being given. This great tent occupies the space given at previous fairs to the cheap and oftentimes more or less degrading shows of the midway. These cheap shows as amusement attractions at fairs can very well be spared. The great tent with its splendid amphitheater arrangement of seats greatly increases the educational value of the live stock show, since much of the judging took place in this ring, where an audience could study carefully the placing of the awards. The erection of this great tent, thus providing a suitable place for the judging of the live stock exhibits, was a decided innovation, but one that was greatly appreciated by the visitors who came for the purpose of learning something regarding better types of stock.

Following the exceedingly trying season of 1913 it was but natural for those entering the fair grounds to go at once to the Agricultural building, for the purpose of reassuring themselves as to the crop returns following this much more favorable season. This building was filled to overflowing with the products of the soil, numerous county and Grange exhibits occupying the east end of the building. While this has not been a bumper corn year, the corn exhibits, both in the county sections and individual showings, were exceptionally good. Among the counties making exhibits were noted Wabaunsee, Douglas, Franklin, Jefferson and Nemaha. All but the latter county are old-time exhibitors at this fair. Nemaha had a most creditable and exceptionally well arranged exhibit, considering the fact that O. L. Forr and F. T. Dever, who had charge of it, were new hands at the business of gathering and staging an exhibit of this kind. J. C. Hastings, who was in charge of the Jefferson County exhibit, had prepared in addition to his usual map of the county done in seeds and grains, a map of the whole state of Kansas, using in its preparation twenty-eight different kinds of seeds and grains.

The Agricultural College occupied its usual space in this building with one of the best educational exhibits this institution has ever placed. This exhibit attracted and held the attention of the many visitors to a remarkable degree. The exhibit was too comprehensive in nature to be more than mentioned at this time. Another educational exhibit of considerable value occupying space in the main part of the Agricultural building was the grain sorghum exhibit of KANSAS FARMER. KANSAS FARMER has for years championed the cause of the grain sorghums in the development of agricultural prosperity in our state. This exhibit, which contains various samples of grain sorghums furnished by correspondents over the state, illustrated most strikingly the possibilities of the grain sorghums as sure agricultural crops for the state. This exhibit is to a considerable extent illustrative of the splendid book prepared by T. A. Borman, entitled "Sorghums: Sure Money Crops."

The live stock exhibits are always the most attractive to visitors of any of the exhibits staged at a great agricultural fair such as the one being held in Topeka this week. The live stock on exhibition is the finest that has ever been seen at the Topeka fair. The cattle and horse barns are full to overflowing and not a poor or inferior animal is on the grounds. In the horse barns Lee Brothers have the largest number on exhibition, 23 head in all. P. G. McCully of Princeton, Mo., is back again with seven head of high-class Percherons. It will be remembered that Mr. McCully gave Lee Brothers a close call in competition for the champion Percheron mare at last year's fair. Bruce Saunders of Holton, Kan., has on exhibition Inches, the 1911 champion Percheron

stallion at the Royal Stock Show with four of his get, two yearlings and two weanlings. The St. Joseph Importing Company is again on hand with a fine string of Percheron stallions, among them being Joel, the champion of the American Royal, the Missouri State Fair and other large fairs of last season. Just across the aisle stands the string exhibited by Lew Jones of Alma, Kan. In the first stall of this exhibit stands Medor, the splendid Belgian four-year-old that attracted so much attention last year. W. H. Branson of Overbrook, Kan., is again on hand with some good Percherons and some high-class mules.

The exhibits in the horse barn attracting the greatest attention are the famous strings of show horses which form the attraction of the evening horse show. Miss Loula Long has fifteen head, claimed to represent an investment of two and a half million dollars. O. J. Mooers and wife of Columbia, Mo., with

cattle are housed under this roof, and some of the nurse cows are necessarily crowded out. Among the Shorthorn exhibitors are noted the herd of H. H. Holmes, of Great Bend, Kan., and a small herd by Harry Forbes of Topeka. In addition to these Kansas exhibitors are to be found the cream of the Shorthorn herds shown at Lincoln the week preceding. H. C. Lookabaugh, of Watonga, Okla., has a strong herd, among them being the two-year-old white heifer, Isabella, sired by Double Dale, fresh from winning the much-coveted Omaha Stock Yards Special which has been offered for several years at the Nebraska State Fair. This honor is greatly sought by breeders of beef cattle, since it is a championship prize with all beef breeds competing. Bellows Brothers, of Maryville, Mo., have only nine head in their show herd, but are flushed with the winning of the grand championship on their senior bull calf at the Lincoln

Kershaw, of Muskogee, Okla. G. E. Clark, of Topeka, is the only Galloway exhibitor, having seventeen head of this breed on exhibition. The Hereford showing is being made by Thompson Brothers, of Westport, Neb.; O. E. Green, of Genoa, Neb.; Biehl & Sidwell, Queen City, Mo., and W. J. Davis, Jackson, Miss. The Davis herd made a great showing last year, having the grand champion bull at most of the great shows, including the International. They have with their herd this year LaVernet Prince 2d, a worthy two-year-old son of this grand champion bull of last year.

The Agricultural College again makes a fine exhibit of fat steers, the exhibit being in charge of their most capable herdsman and feeder, Leslie Ross. A number of the young men from the animal husbandry department of the college came down with the herd in order to secure the valuable training resulting from studying high-class live stock shows. Several of these young men were used in connection with securing the awards of publicity purposes and their services in this line were found to be most proficient. W. J. Miller, of Newton, Iowa, also showed fat steers, as did James T. Vardaman, of Jackson, Miss.

Red Polls are being shown by George Haussler & Sons, of Holbrook, Mo., and J. W. Larabee, of Earlville, Ill. These are both high-class herds. Brown Swiss cattle are being shown by Dahlen & Schmidt, of El Dorado, Kan.

As last year, the dairy cattle show is exceptionally strong. Among the Holstein exhibitors are Badgers & Frost, of Central City, Neb., and the local herds of G. L. Rossetter, Henry McAfee and Charles Holston & Sons. Only one herd of Guernseys are on exhibition, namely, the well known herd of Wilcox & Stubbs, of Des Moines, Iowa.

Among the Jersey herds on exhibition are noted the herds of H. F. Erdley & Son, Holton, Kan.; Fred Laptad, Lawrence, Kan.; James H. Scott, Topeka, Kan., and F. J. Scherman, Topeka, Kan. Outside competition is furnished by the high-class herd of J. B. Smith, of Platte City, Mo. The butter fat contest, which is a new feature of this year's show, has over twenty cows entered. This contest consists of an accurate determination, under the direction of George S. Hine, superintendent of the dairy exhibits, of the butter fat production of the cows entered for a 72-hour period.

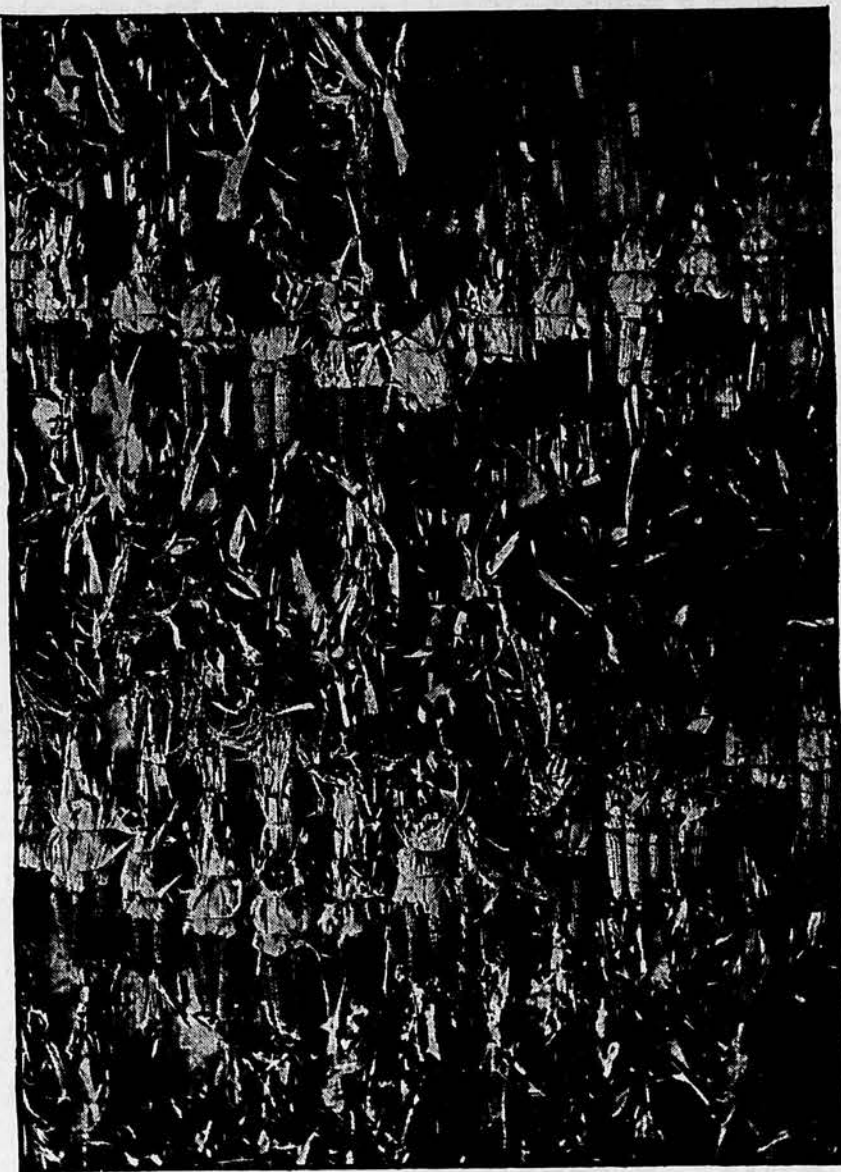
While the hog show is not large in numbers, it is made up of the most classy exhibits out this year. In Poland Chinas, W. E. Willey, of Steel City, Neb., and Ben Anderson, of Lawrence, are the principal ones showing. The Duroc Jerseys are out in greater numbers. Among them are George Briggs, of Clay Center, Neb.; Widdle & Son, of Genoa, Neb.; G. Van Patten, of Sutton, Neb.; W. B. Albertson, Lincoln, Neb.; Classen Brothers, of Oklahoma; Searle & Cottle, of Topeka; A. E. Sisco, of Topeka, and A. J. Hanna, of Elmdale, Kan. In hurriedly glancing over the pens it looked as though the judge would have his work cut out for him when the aged Duroc sows are driven into the ring.

Two exceptionally strong herds of O. I. C's are on exhibition, namely, those of R. E. Brown, of Dunlap, Iowa, and J. V. Slepicka, Wilber, Neb. Berkshires are being shown by the well known exhibitors, H. E. Conroy, of Nortonville, Kan., and J. M. Neilson, of Marysville, Kan. Hampshires are represented by the splendid herd of J. Q. Edwards, of Smithville, Mo., and Roy Fisher, of Nebraska.

In the sheep exhibits, Clarence Lacey, of Meriden, Kan., has a good showing of Shropshires. He has an exceptionally good imported ram and a first-class ram lamb is also noted in this exhibit. George Allen & Sons, of Lexington, Neb., were again on hand with good exhibits of several different breeds of sheep. Sherwood Brothers, of Shelbyville, Mo., have a fine flock of Hampshires.

A strong showing of poultry is always made at the Topeka fair, and this year is no exception to the rule. The building devoted to this purpose is crowded to its utmost capacity.

Taking it all in all, a better fair has never been put on by the Topeka State Fair Association than the one being held this week.



A SMALL SECTION OF THE WALL SPACE IN AGRICULTURAL HALL.

their famous string of seventeen head, occupy a place in this barn. Likewise E. D. Moore, Columbia, Mo., with his string of sixteen head. These are the most famous strings of high-class show horses in the West. The army horses from Fort Riley form another attractive feature of the horse show. Three splendid herds of Shetland ponies are on exhibition. The Welty-Stewart Shetland Pony Farm of Nevada, Iowa, showed the prize-winning herd at the Nebraska State Fair, where over seventy head of ponies were on exhibition. The herd of R. T. Kreipe, of Topeka, Kan., and that of Mrs. Foster, Topeka, Kan., will furnish this herd with plenty of keen competition at the fair now being held in Topeka. The popular Dr. C. W. McCampbell, of the Agricultural College, whose enthusiasm was largely responsible for the staging of the horse show, was again superintendent of the horse exhibits.

Down in the big cement cattle barn, C. H. White, of Burlington, Kan., a new superintendent, was in charge. Mr. White, however, was handling the business of placing the exhibits in his charge in a most efficient manner. Over 500

show, defeating in this contest the senior champion bull, Whitehall Rosedale, shown by Howell Rees & Sons, of Piller, Neb. Eight head of the Rees herd are on exhibition at the Topeka fair.

Only two herds of Polled Durhams are on exhibition. D. C. Van Nice, of Richland, Kan., has the largest number, among them being some exceptionally good individuals by the famous Roan Hero, a former grand champion of the breed at the International Stock Show held at Chicago. Ed Stegelin, of Straight Creek, Kan., has in his herd a young white bull, True Sultan, which would attract attention anywhere shown. This bull is an outstanding individual, having been champion bull of the breed wherever shown this year. At Lincoln he stood a close second to the Harris Hereford bull, Repeater 7th, in contesting for the Omaha Special for best beef bull, any breed. It is common talk that many favored the Stegelin bull for first place in this contest. This is the first time the Polled Durham breed has been able to make any showing in competing for this special prize offered at Lincoln.

Angus cattle are being shown by W. J. Miller, of Newton, Iowa, and L. R.





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## FARM ITEMS

### Cottonseed Meal Unsafe for Hogs.

Our correspondent, R. G. M., of Rice County, Kansas, asks regarding the value of the by-product, cottonseed meal, as a feed for hogs. Probably every feeder who has ever had experience in feeding cottonseed meal to cattle has raised this question of feeding cottonseed meal to hogs. It is a rich, nutritious feed, containing more oil than most of our concentrated feeds and a considerably larger percentage of protein than any feed available, with the exception of tankage or meat meal. These qualities have made cottonseed meal a feed of great value in supplementing corn and other carbonaceous feeds. It has been highly prized by the European feeder and every year enormous quantities of cottonseed cake have been exported for feeding purposes.

As a hog feed it has been studied experimentally for a great many years. The experiment stations are apparently no nearer a solution of the problem of making it a safe feed for hogs than they were in the beginning. As now prepared it must be considered as a dangerous feed for swine. Various individuals here and there, and some of the experiment stations, have fed it with apparent success, but the cases where it has resulted disastrously are too numerous to warrant its general use in swine feeding.

In all probability, if it is not fed in quantities in excess of from 20 to 25 per cent of the total ration and then not fed continuously for over 40 or 50 days, it can be fed with a reasonable degree of safety.

Hogmen in general leave out of consideration cottonseed meal as a concentrated feed for hogs. Meat meal or tankage, which supplies digestible protein in much larger quantities than cottonseed meal, can be used profitably in balancing the ration for the hog, and this concentrate is being almost universally used by hogmen who are studying how to best get the largest returns from the grain they feed.

### Western Oklahoma Silo Thoughts.

A Texas County, Oklahoma, subscriber writes that he has filled his pit silo with milo cut when the heads were just past the dough stage and with kafir which had not headed and which was drying up. The two crops were mixed at the time of filling the silo. He ran at least a hundred gallons of water into the silo with each load of the crop cut.

He writes: "Put your best man in the silo. If the filling is not carefully watched the leaves will settle in one place and the stalks and grain in another. It is necessary for the man inside to watch this distribution. I covered the top of the silage with chaff from the wheat straw stack and made it thoroughly wet, then put straw on top, the idea being to exclude, so far as possible, the air from the silo and prevent spoilage of the top silage. I had a hand cutting box that cost \$13.50. It had 10-inch knives. I overhauled this cutter, put on a belt pulley and a feed carrier and attached a two-horse gasoline engine. We cut an ordinary load of fodder in 35 to 40 minutes."

The above is valuable in that it shows how one man with meager facilities was able to provide his live stock with silage and so save his crop at a maximum of feeding value. It required some labor to mix the milo and the kafir, but unquestionably the quality of the feed obtained will more than pay for the extra labor. The conversion of a hand cutting box to a cutter adapted to silo filling reveals the truthfulness of the old maxim that "where there is a will there is a way." This man might have offered as a legitimate excuse for failure to put up silage that he did not have a silage cutter and that he could obtain none for use. We have great admiration for the man who does the best he can with the facilities at his command. This man has already begun feeding silage to twenty cows and ten calves and is feeding a little to horses and some to chickens and hogs.

### Harvesting Feterita.

Subscriber E. E. G., Stafford County, asks how he can best harvest the grain of feterita. He writes that the main stalks in his field are about eight feet high and that there are numerous suckers which range from four to five feet in height, presenting a varying height which makes impossible any method of harvesting the heads by machinery. This inquiry is only one of a number which have been received during the past two or three weeks. On our trips into the country and in conversation with farmers who have this year grown



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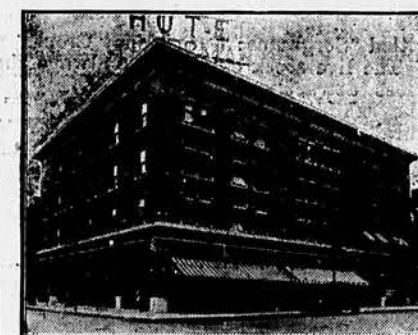


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a patch of feterita, this same inquiry has been presented many times.

The fact is that every farmer who has grown feterita this year and who desires to harvest the seed, is confronted with a difficult harvesting problem. The variation in the height of the stalks and the variation in the stage of ripening presents a harvesting problem which is really difficult. It would seem that there are only two methods of harvesting. One is to harvest the heads by hand from the standing stalks. The other is that of cutting the crop with a corn binder and during the fall remove the heads by cutting off the tops of the bundles.

If it is desired to save all of the seed possible, then hand heading is the method to employ. This will not meet with favor on the part of most growers because of the slowness with which such harvesting will progress. But if the grower desires to save all the seed possible, this is the only method we know. Even by this method he must allow the crop to stand until frost, thereby giving chance for every possible head to mature, else go over the field several times gathering the heads as they ripen. The heads will not all be ripe by frost, but none will ripen after a killing frost and at that time he will be able to harvest every mature head. We have not this season observed any alarming tendency on the part of the first ripening heads to shatter. It may be that the comparatively light rainfall up to the time these lines are written is responsible for failure to shatter. The stalks in each field we have examined are standing erect. They have not lodged to this date. Failure to shatter and to lodge is in opposition to the expressed belief of many people that these points are objectionable features. Abundant fall rains accompanied by wind, however, may result in shattering and lodging.

If the crop is harvested with a grain binder the bundles cannot be topped so successfully or expeditiously as in the case of kafir. We recently discussed harvesting methods with a farmer who was binding his feterita crop. Examination revealed that the heads from the main stalks could be easily removed by the commonly employed methods of topping the bundles, but that the heads from suckers and branches would have to be picked out one by one. As near as we could figure, about 60 per cent of the grain in this field was in the heads of suckers and branches, which means that the heads would have to be removed separately from about 60 per cent of the stalks in the bundle. This particular farmer declared that he would cut off the main heads and allow the heads on the branches and suckers to be fed with the forage. This farmer, however, was not in need of the forage of feterita because he had twenty-five acres of ripened dwarf black-hulled kafir which in its growth was as even as could be and which he will harvest by machinery, later cutting the forage with the corn binder. The kafir forage was much more leafy and will make better roughage than that of feterita.

A Shawnee County farmer who has grown feterita three successive years has concluded that the way to harvest this crop is by "hogging" it down. That is, turning the hogs into the field and allowing them to do the harvesting. This man planted his feterita in a field which was fenced hog-tight and while this method of harvesting is practical for him, it is not practical to thousands of farmers in the eastern half of Kansas. Furthermore, it is probable that only a very small proportion of this year's feterita growers are those who can use the grain exclusively as hog feed. However, if because of the harvesting difficulty feterita should be grown only for hog feed, then even in this particular it is well worth growing.

It would seem to us that the early ripening heads could be gathered by hand and the later maturing heads harvested by turning hogs with other stock into the fields. Stock turned into the fields would gather these heads just as they gather nubbins in the corn field. They would also consume a considerable proportion of the leaves and possibly some of the stalk. Of course, if anything like 60 per cent of the heads were in the stalks in the field, it would be necessary to pasture the stalks carefully. We have not had opportunity to examine feterita fields in the western portion of the state since such fields began heading and consequently do not know whether the same variation in height prevails in these fields as prevails in the eastern half of Kansas. It is to be borne in mind, however, that in the case of all grain sorghum crops from which the seed is to be harvested that uniform height is very desirable. Uniformity of height has not yet been ac-

complished in feterita and it will not be accomplished until the tendency to sucker and branch has been bred out of the crop.

#### Sink Holes in Alfalfa Fields.

Sink holes varying in depth from 3 to 20 feet, in width from 3 to 8 feet, and in length from 6 to 30 feet, have been reported to the Nebraska College of Agriculture from Hall and other counties. The holes are formed without reference to swells and hollows, but with respect to each other they are in rather irregular lines. The falling in comes suddenly, generally during wet weather. The hole may suddenly increase in area but not in depth. It has been found that frequently, although not always, these holes have been in alfalfa fields. As some of the holes are found in grooves, it is believed that perhaps deep rooted plants cause the roofs of tunnels, which are known to exist in certain areas, to crumble. — Nebraska Bulletin.

J. C. Kinzer, who has been conducting the western office of the Shorthorn Record Association, recently resigned and has taken up the management of the Hereford herd of Col. E. H. Taylor, Jr., of Frankfort, Ky. This is a splendid recognition of the ability of Mr. Kinzer, whose college training was secured in part at the Kansas Agricultural College. Colonel Taylor has just recently started a Hereford breeding farm in Kentucky, which it is his ambition to make a place where the best of Hereford bulls can be produced and sold for the upgrading of the native stock.

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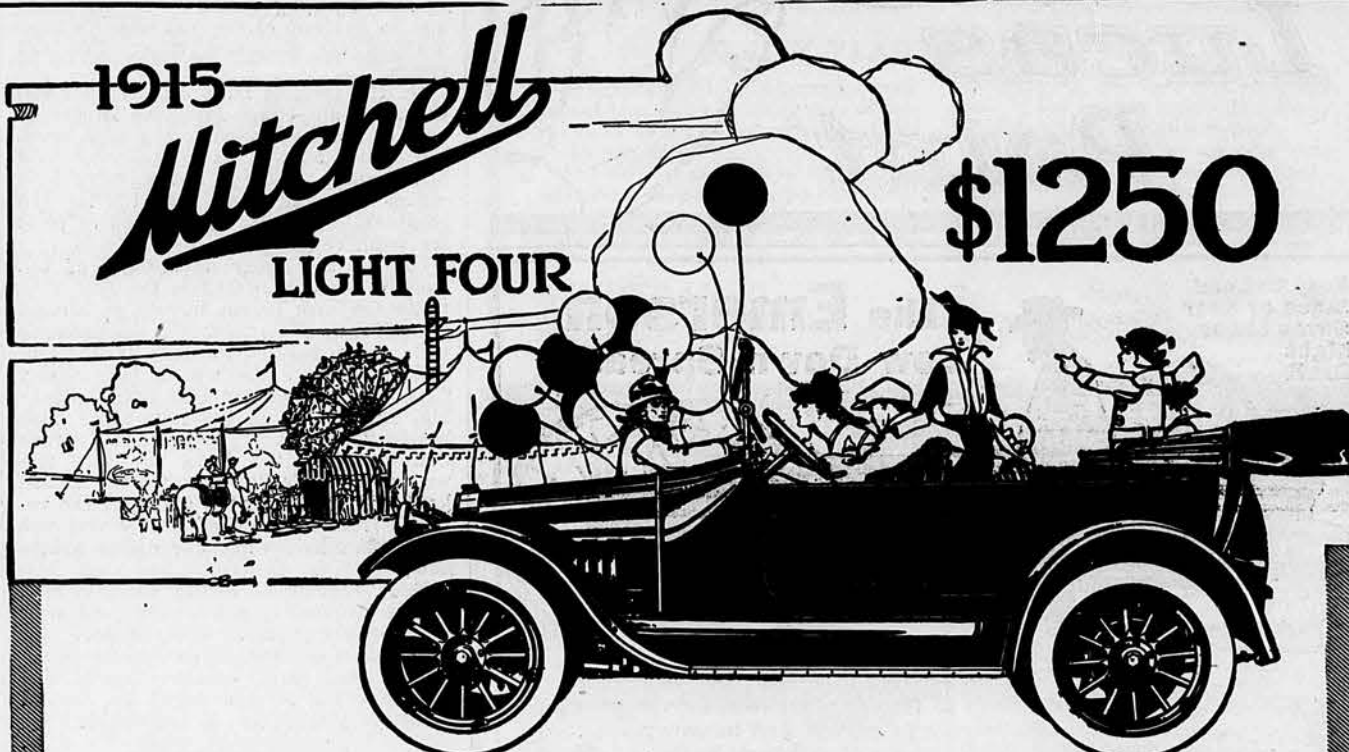
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# DAIRY

## Dickinson Cow Test Results.

The following is the report of cows of the Dickinson County Cow Testing Association which for August produced more than 30 pounds of butter fat:

Name of Owner:	Lbs. Milk.	Pct. Fat.	Lbs. Bft.
Sterling & Eisenh'r, J.	582	5.2	30.2
Sterling & Eisenh'r, J.	582	5.8	33.5
Sterling & Eisenh'r, J.	807	3.9	31.5
Sterling & Eisenh'r, J.	768	4.1	31.5
Sterling & Eisenh'r, J.	561	5.8	32.5
Sterling & Eisenh'r, J.	1,074	3.8	40.6
Sterling & Eisenh'r, J.	624	4.8	30.9
Sterling & Eisenh'r, J.	723	5.0	36.1
Sterling & Eisenh'r, J.	850	4.0	34.0
A. B. Wilcox, H.	984	3.5	34.4
A. B. Wilcox, H.	978	3.4	33.2
Dave Engle, S. H.	873	3.6	31.4
Dave Engle, H.	951	3.3	31.4
Dave Engle, H.	813	4.0	32.5
R. E. Hershey, H.	765	4.4	33.7
O. L. Thisler, G.	900	3.6	32.6
O. L. Thisler, G.	951	4.2	39.9
O. L. Thisler, G.	777	4.2	36.6
O. L. Thisler, J.	762	4.0	30.5

"H" stands for Holstein; "J" for Jersey; "G" for Guernsey; "S. H." for Shorthorn.

## Milking Cows With Stock Shipping.

These notes regarding dairying are taken from the Drovers' Telegram, a Kansas City market paper published largely in the interest of the cattle and hog shipper. The men to whom reference is here made are feeders and shippers of live stock, but they find the milking of a few cows profitable and in fact necessary:

H. H. Metzger of Bourbon County, Kan., regards skimmed milk as a valuable by-product in farm dairying. "On my place," he said, "we feed our growing pigs on milk, also the calves, and thus raise them at a trifling expense. In fact, I hardly see how we could manage to get our calves and pigs through without the skimmed milk. We sell cream."

On the farm of H. S. Barnes, in Lyon County, Kan., silage forms an important part of the feed given to the milk cows. "In winter as well as in summer," said Mr. Barnes, "silage is not only the best ration for milk cows, but by far the cheapest. No other feed compares to it for fresh cows."

One of the many advantages of the modern farm dairyman is the fact that there are cash cream buyers at almost every town, while formerly the farmer's wife was compelled to slave around and make butter, which was a poor seller. "The hand separator eliminates churning, and brings us twice as much cash besides," said D. W. Randall of Pawnee County, Neb. "In Iowa 25 years ago we milked twice as many cows as are kept on my farm now, and still the receipts from the sale of butter was not more than half what our cream brings now."

F. R. Rieman of Shelby County, Mo., speaks of handling a bunch of good milk cows on his farm as being a safe and sure side line that helps out in emergencies and pays current family expenses. "No farmer ought to depend upon one thing," Mr. Rieman said.

## Test for Tuberculosis.

A farm dairyman who is gathering about him a small herd of pure-bred dairy cows and whose ultimate object is to develop a herd of superior milkers and from which the male calves are to be sold at prices commensurate with their breeding and the performance of their mothers, inquires how he is to feel sure that his little herd is to continue free from tuberculosis. There is no doubt that dozens of other farm dairymen situated similarly are interested in the same question. The plan is as follows: "Cleanliness in barns, the honest, scientific use of tuberculin and the introduction of healthy stock only, will keep the herd free from tuberculosis." These are the words of Hubert Work, of Woodcroft Farm, Pueblo, Colorado, who has had his touch of experience with the disease. In 1912 he bought seventeen head of registered dairy cattle costing in excess of \$6,000 and at the end of two years seven head of the number and costing over \$3,000 were condemned, slaughtered and found to be tubercular. These animals he bought as "government inspected, tuberculin tested" animals, the test having been made within thirty days of sale. He had surrounded himself, he thought, with every precaution, but sixty days after date of purchase reactors to the test were found. He thinks that the menace of tuberculosis is less than the danger from the attitude of those who sell it. The time has come when every breeder of dairy cattle must test his animals at least twice per year and besides must maintain clean and healthful conditions of stabling. Every breeder should protect his herd against tuberculosis for his own benefit. When that time has arrived then dairy cattle may be purchased with a greater feeling of security than at present. In the mean-



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time purchasers of dairy stock must make such inquiry and investigation as is necessary to enable them to know the reputation of the seller and the probable healthfulness of the animals he has to sell. The unusual demand the last few years for dairy-bred stock has caused both purchaser and seller to become more or less lax in the agreements attendant upon sale and purchase. The dairyman who would keep his herd from this trouble must be ever on the lookout for the trouble and depend upon the tuberculin test honestly and scientifically applied, and in the event that animals react these must be slaughtered and not passed to his neighbor.

#### Bacteria Affected by Temperature.


The reason for cooling milk lies in the fact that at a comparatively low temperature bacteria cannot grow. Be it understood that many of the bacteria commonly found in milk produce no apparent change, but others change the flavor without changing the appearance, while some of the most common type cause marked changes in both appearance and flavor. In this latter class are included the bacteria which sour by converting sugar into lactic acid and those which form a sweet curd. Another type destroys the casein and albumen in the milk and causes putrefaction and bad odor. The number of bacteria in milk depends first upon the number in the udder, second upon the amount of contamination from outside sources, and third on the rapidity of the bacterial growth. The rate of growth depends upon the temperature at which the milk is held. Bacteria that increase rapidly at 70 degrees grow much more slowly at 50 degrees and grow hardly at all at 40 degrees. Those which do not grow at 40 are those responsible for the souring of milk and it is because these grow slowly at the above temperature that the cooling of milk to this temperature permits the milk to remain sweet for a much longer period than if the milk continues warm. To show the difference in bacterial development, these figures will prove interesting: Milk which contained 10 bacteria per cubic centimeter at the beginning of a test contained 62 only at the end of forty hours when the milk was held during the period at a temperature of 50 degrees. The same milk held forty hours at a temperature of 68 degrees, at the end of the period contained more than three and a half million.

#### Dairy Show at Wichita.


O. E. Reed, professor of dairy husbandry with Kansas State Agricultural College, Manhattan, will have charge of the dairy and live stock exhibits at the International Dry Farming Congress at Wichita, October 7-17. Four prize herds of Jerseys, Guernseys, Ayrshires and Holsteins from Manhattan will be exhibited. These herds all have known records of from 400 to 850 pounds of butter yearly. In connection there will be a milk show in which local dairymen will participate, prizes being awarded for the best samples of milk. Demonstration cow tests of animals selected from local herds and the dairy cow test of both pure-bred cows and common cows, with awards for those showing the most economical production of milk and butter fat during a period of four days will be held. Lectures will also be given by officials of the Kansas State Agricultural College and other noted dairymen.

#### Block and Tackle for Butchering.

It isn't as easy to "swap" work with your neighbor at butchering time as it once was. You do not need the help of the neighbor if you have a block and tackle of convenient size for hanging the carcass of the hog or beef for dressing. The accompanying illustration shows how a block and tackle costing from \$2 to \$5 will enable you to hoist from 300 to 400 pounds without assistance. The same hoist has capacities ranging from 1,500 to 5,000 pounds. There are dozens of jobs about the farm which with a hoist will make play of otherwise hard and almost impossible work for one man.



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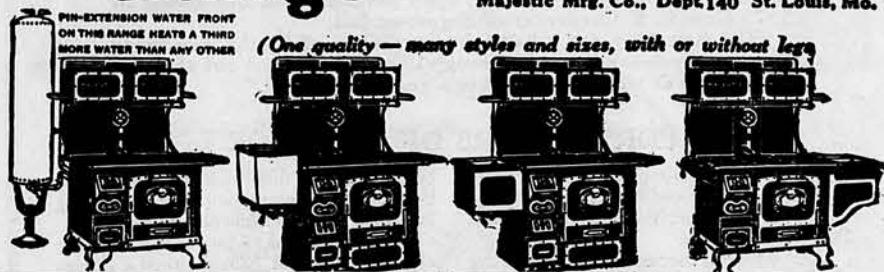
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# HOME CIRCLE



Miss Amy Daniells, head of the home economics department at the University of Missouri, and an expert on food and nutrition, was recently elected to a place on the teaching staff of the University of Wisconsin. Mrs. Nellie Kedsie Jones, who has been heard by farm women all over the United States, will also spend ten weeks this winter giving special lectures on domestic science and subjects related to the farm home.

### War Affects Fashions.

"Light shades in clothing will be popular next year," says J. T. Willard, acting president of the Kansas State Agricultural College. "Because of the European war, manufacturers in this country will find it necessary to make one pound of dyestuff take the place of ten. The people of this country will soon begin to realize how much they have been depending on Germany."

### Chocolate Syrup.

Three tablespoonfuls chocolate. Gradually pour over this one-half pint boiling water, stirring the mixture. Place over fire and stir until all the chocolate is dissolved. Add one pint granulated sugar and stir until it begins to boil. Cook three minutes longer, strain and cool. When cool, add one tablespoonful vanilla extract. Bottle and keep in a cool place.

### New Use for Old Blankets.

When blankets have become worn, their time of usefulness can be prolonged by washing them and placing between two layers of cretonne, then quilting or tacking. The blanket thus becomes a pretty comfort and will well serve its purpose.

### Make Use of Rags.

The following suggestion will be help-

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No. 6606—Ladies' House Dress: A simple model which looks well made in gingham, linen, chambray, cotton crepe and other wash materials, as well as in challie, cashmere, brilliantine and the like. The blouse has a tuck at each shoulder in front and back and a side front closing. The skirt is cut in seven gores. The pattern, No. 6606, is cut in sizes 34 to 44 inches bust measure. Medium size requires 5 1/2 yards of 36-inch material. No. 6039—Boy's Blouse: This plain blouse opens in the front and may have the neck high, finishing with a plain little collar, or low with a wide sailor collar and an inner shield. The sleeve has a seam down the outer arm and is arranged with tucks at the wrist. The pattern, No. 6039, is cut in sizes 4, 8, 10 and 12 years. Medium size requires 2 1/2 yards of 36-inch material, with 1/4 yard of 27-inch contrasting goods to trim. No. 6300—Ladies' Work Apron and Cap: This garment is called an apron because it can be worn over the dress, but it can also take the place of the dress, as it is made just like one. It has an empire waistline, with a plain blouse and a plain gathered skirt. The pattern, No. 6300, is cut in sizes 34 to 42 inches bust measure. Medium size requires 5 1/2 yards of 27-inch material. No. 6065—Children's Dress: This dress has the fastening at the side of the front and has a dainty two-piece skirt. The neck is collarless and the sleeves may be long or short. The cuffs and belt are fashioned of contrasting material. Pattern is cut in sizes 4 to 10 years. Medium size requires 2 1/2 yards 36-inch material and 1/4 yard 27-inch contrasting goods. No. 6605—Ladies' Apron: For the woman who works, this apron will be satisfactory without being too much of a covering. The front panel is shaped in a little to the figure and continues in a bib and shoulder straps. The sides end at the belt and are gathered at the top and attached to a straight band. The pattern, No. 6605, is cut in sizes 34, 38 and 42 inches bust measure. Medium size requires 4 1/4 yards of 27 or 36-inch material. No. 6815—Boy's Rompers: Such rompers as these actually form a suit, which may be worn without another beneath it. The front is cut in one with the drawers, but there is a division across the back at the waistline. The blouse has an open neck with wide sailor collar. The pattern, No. 6815, is cut in sizes 2 and 4 years. The 4-year size requires 2 1/4 yards of 36-inch material with 1/4 yard of 27-inch contrasting goods.



ful in making use of the rags which are sure to accumulate in every household: Wash the old clothes and cut into strips a little wider than those used in rag carpets. Separate the different colors—blue, red, pink, white, etc.—and braid the rags. Sew the braided strips, edge to edge, into round, oval, or other shape, and this will make a useful rug for the porch or to be laid in different parts of the house on rainy days.

#### Canning Peaches Without Sugar.

It seems unfortunate that the price of sugar should have materially advanced in the midst of the fruit-canning season with no indication of a lower price for some time to come. However, this need not check the canning operations, as it has been conclusively determined that fruit canned in plain water keeps indefinitely. Peaches may be successfully canned in the following manner: To remove skins, place in boiling water for about a minute and then dip in cold water. The whole peaches should then be placed in jars and the jars filled with cold water. Screw lid on tightly. The jars should then be placed in cold water in clothes boiler or other receptacle for which a false bottom has been made. Let the water in the boiler reach the boiling point and boil for one hour. Then let the jars stand in the water until it becomes cold. Do not at any time unscrew the lids. Repeat the boiling operation as above two more days, each day starting in cold water and letting it boil one hour and then cool. Sweetening may be added at time of serving.

#### Watch Baby's Milk.

The Nebraska College of Agriculture, in its Press Bulletin No. 39 on "Pasteurization of Milk and Cream in the Home," offers the following important suggestions regarding milk that is to be fed to babies:

"When it is not possible to obtain milk from a source absolutely above suspicion, it is desirable that it should be carefully pasteurized (heated to a temperature varying from 150 degrees F. to 160 degrees F. for at least twenty minutes) before being used for food purposes, particularly if it is to be used for children. Much of the milk sold in the large cities frequently contains large numbers of bacteria. While it is true that most of the germs are harmless, it is a fact that dangerous disease germs sometimes gain access to the milk supply.

"Milk may contain germs of typhoid, diphtheria, tuberculosis, and other diseases, especially if either the cows or any of the people handling the milk are suffering from these diseases. The dairy department of the University farm advises that these germs do not in any way change the appearance or composition of the milk, hence their presence cannot be detected by any of the ordinary methods of inspection, yet when such milk is introduced into the system of a susceptible person they may multiply very rapidly and in this way affect the health of the person consuming the milk."

#### What Is Efficiency?

Not long since we listened to an able speaker on the subject of "Efficiency." Among other things, he said: "During the past few years we have heard much about industrial efficiency and with as many definitions and shades of meaning as there are lines of industry in the world's activities. What does efficiency do? It tunes up the whole work. It reduces the amount of lost motion; it produces better results without an increase of cost in money, time, energy or mental force. Inefficiency is waste; efficiency is intelligent thrift. Inefficiency allows the horses or other farm power to be of insufficient strength to do a real day's work; efficiency will see that power is always in readiness to take on what is required and keep steadily at it. This steady employment of the farm power of sufficient strength will increase the efficiency of man labor and thus cut off another common source of much farm waste." The term, "efficient," is as applicable to the housewife's work as to that of the men folks. The housewife's duties are many and in order that she may have the necessary strength and energy to cover her field, she should have all the co-operation possible in the form of conveniences and handy devices for carrying on her work.

#### Get Ready for Next Season's Warm Spell

Although the season when it is difficult on account of the warm weather, for the housewife to keep edibles in a palatable condition, is nearing its close for this year, it is not too early to build a convenience of this sort for next summer. This is indeed the proper time to give thought to such conveniences for

it is during the winter that the men folks have leisure time and which could very profitably be used in making the housewife's burdens fewer and life and work more enjoyable for her. The following suggestions by Mrs. Leah D. Widtsoe, for building a refrigerator, are offered:

Every farm home should be supplied with some means of keeping the food cool, other than the one usually resorted to—the cellar, or the cool outhouse ten or one hundred steps removed from the kitchen. A refrigerator or some kind of artificial cooler should be a part of every kitchen furniture, and should be as necessary as the stove. In places where ice is not to be procured it is possible to make a cupboard, in some instances where running water can be utilized. Or a cupboard could be built which has access to the outside air, the shelves being of wire netting which permits the constant circulation of the air—this cupboard, if possible, being on the shady side of the house. The principle used in the African water bottle may be utilized; that of having a cupboard covered with some absorbent material and allowing the cover to be constantly saturated with water. In our western climate evaporation of the water keeps the inside air as cool as could be desired.

A recent ruling of the U. S. Department of Agriculture is to the effect that all Chinese eggs hereafter offered for sale shall be branded "Product of China." This will prevent the wily Chinaman from palming off on us eggs that are five or six years old for "strictly fresh eggs."

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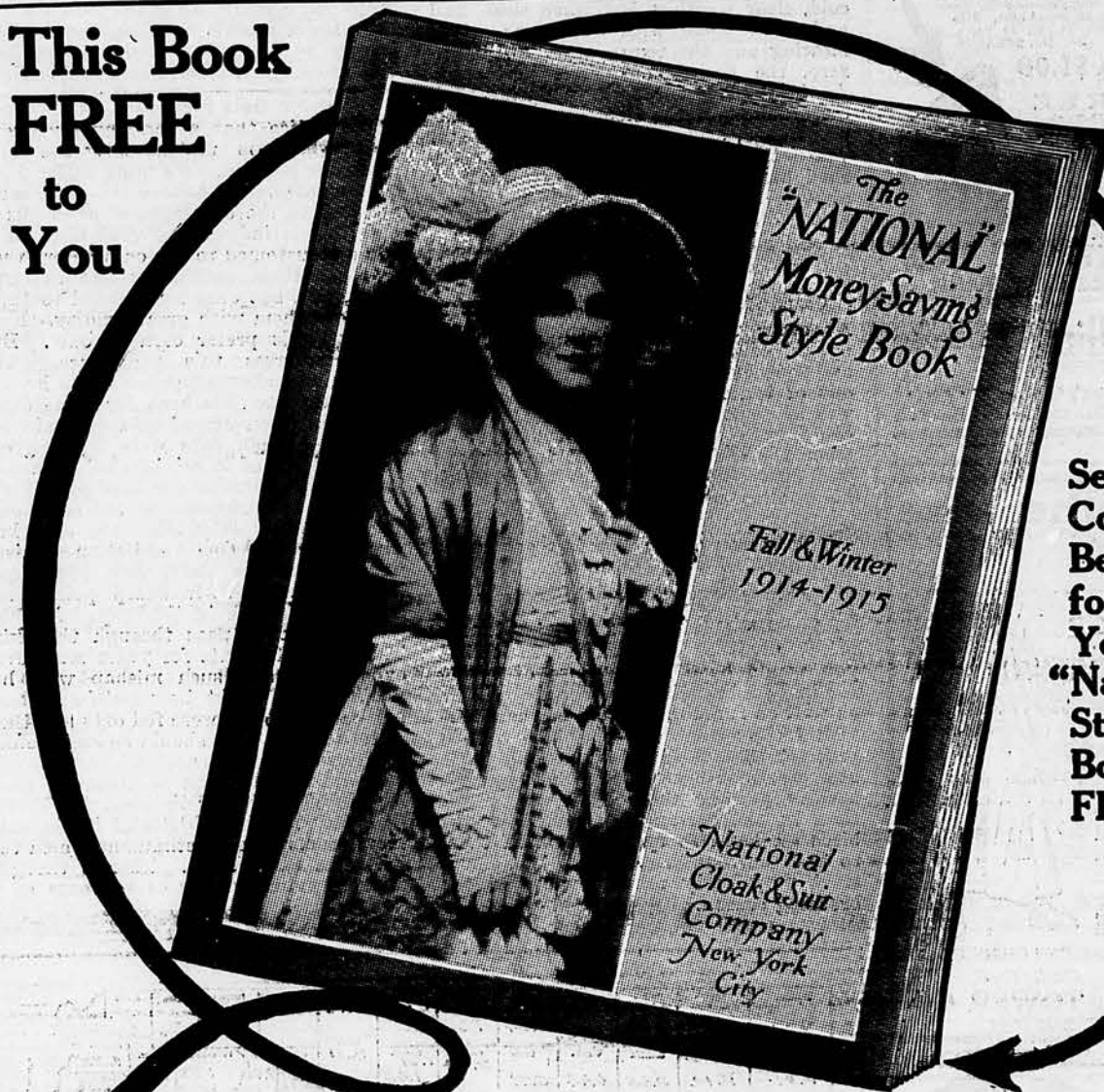
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## Bargains in Land

### MR. RENTER, HERE'S YOUR CHANCE.

160 acres well improved; 60 fine pasture, 20 prairie meadow, balance cultivation; some good alfalfa land. For quick sale, \$3,800. Small payments buys it. Write for description and list of Labette County bargains. D. H. WALLINGFORD, Mound Valley, Kan.

14 Quarter Sections, 2 to 6 miles from Richfield, county seat Morton County. Will sell by quarters, halves or sections, to suit purchaser. Price, \$7.50 to \$9 per acre, half cash, balance 5 years at 7%; in shallow water district. Hundreds of bargains in good farms in proven territory. Thos. Dacey, the Land Man, Offerle, Kan.

**WE SELL OR TRADE ANYTHING, ANYWHERE.** REALTY EXCHANGE CO., NEWTON, KAN.

## 360 ACRES

Five and a half miles from Allen; 180 acres cultivated, balance pasture and timber; 60 acres bottom; well improved. Price, \$42 per acre. 786-acre Lyon County ranch, 250 a. cult., easy terms. Write for list. G. W. HURLEY, Emporia, Kansas.

## SPECIAL SNAP

Eighty acres, improved, well located, in Southeastern Kansas. Terms, \$800 cash, balance in small payments from 2 to 10 years. Price very low. Fine climate. Big crops. Send for illustrated booklet. Address, THE ALLEN COUNTY INVESTMENT CO., Iola, Kansas.

**FOR JEFFERSON COUNTY or Northeast** Kansas farms, any size, where alfalfa, bluegrass and corn are the staple crops, at from \$60 to \$100 per acre. Write or see. The Harman Farm Agency, Valley Falls, Mo.

## FOR SALE

Modern six-room house and 1½ lots in Emporia, Lyon County, Kansas. Easy terms. Gas, electricity, bath, paved streets, taxes paid, one block from Santa Fe station and car line, four blocks from main street; out buildings and good shade. Good investment at a rental. Hasn't been idle a month since built. Write Chas. Clarke, 334 Kansas Ave., Topeka, Kan.

When writing advertisers, please mention KANSAS FARMER.

**Buy or Trade** with us—Exchange book free. Berrie Agency, Eldorado, Ka.

**160-ACRE BOTTOM FARM, alfalfa, corn** or wheat land; 7-room house. Big bargain. M. T. SPONG, Fredonia, Kansas.

**320 ACRES DAIRY FARM FOR SALE.** Fully equipped for good business, 25 choice cows. Good improvements. Horses, implements. Will sell part or all, one-third cash, terms to suit buyer. Write for particulars. F. D. WEBB, Sterling, Kansas.

**ANY SIZED Arkansas farm, no rocks,** hills or swamps, all tillable, general farming and fruit, \$1.50 per acre down, balance 20 years, 6 per cent. Crop failures unknown. E. T. TETER & CO., Little Rock, Ark.

**RICE COUNTY—Fine 150 a. farm, well** imp., adjoins station. For quick sale, \$10,500. \$3,000 cash, bal. 6%. Must sell at once. OWNER, Box 33, Whitewater, Kan.

**140 ACRES, 8 miles McAlester. All bot-**tom and second bottom land. No overflow. 100 acres in cultivation. Fair improvements. \$28 per acre. Terms. SOUTHERN REALTY CO., McAlester, Okla.

**NOTICE—We are making exchanges of** all kinds of property, no matter where located. Send your description at once and get terms. No fees.

**MID-WEST REALTY EXCHANGE,** Riverport, Nebraska.

**RENTER'S OPPORTUNITY.**

Lyon Co. 80 imp., 60 a. cult., 10 a. alfalfa, \$3,200; mtg. \$1,600. 80 a. unimp., well located, \$2,800 easy terms. Now is your time to own a farm. Other good bargains. List free.

**FRED J. WEGLEY, Emporia, Kansas.**

**FORCED SALE—3¼ sections good smooth** wheat land, all join; 60 to 80 ft. to fine sheet water; only 8½ miles to county seat. Price (cash only), \$4.50 per acre. Good safe investment. Chance to triple in value in 12 months. D. F. CARTER, Bonded Abstractor, Leoti, Kansas.

**FOR SALE—320 acres of slightly rolling** upland, with part of it low enough that it will raise alfalfa; 4-room frame house, nice little barn for 8 head of horses, granary for 1,000 bushels of grain, splendid well of soft water; 290 acres in cultivation, balance meadow and pasture; 100 acres rented for wheat, one-third to purchaser; 190 acres for spring crops. This farm is so situated that grain and feed crops always command a good price from ranch owners in the Brookville district. A bargain at \$45.00 an acre. Write for list of 100 Central Kansas farms for sale. V. E. NIQUETTE, Salina, Kansas.

**BUY LAND.**

80 Acres—Franklin County, 3 miles of town; 50 corn, 15 bluegrass, 10 alfalfa, 4-room house, barn 30 x 40, 75-ton silo. Price, \$60 per acre. Encumbrance, \$2,500.

116 Acres—2¼ miles of Ottawa; 85 creek bottom alfalfa land, 15 bluegrass, 10 fruit, 6-room house, barn 30 x 40, other good out-buildings, never-failing water. Terms.

Write for list. **MANFIELD LAND COMPANY,** 204 South Main St., Ottawa, Kansas.

**160 ACRES 1¼ miles from good town on** main line of Mo. Pac. Ry.; in the oil and gas belt; farm pays oil royalty of \$15 per month; 60 acres in cultivation, balance in fine blue stem grass; 30 acres in alfalfa. This is a fine creek bottom farm and one of the best stock and grain propositions in the country. Farm fenced and cross fenced; no other improvements; no agents; will sell direct to purchaser on easy terms. Address Lock Box 761, Fredonia, Kansas.

**IRRIGATED ALFALFA LANDS**

In the wonderful Pecos Valley of Texas. Most profitable farming in the world; 5 to 7 cuttings annually with average price above \$14 five years past; finest fruit in America; better climate than Kansas; cheapest water; lowest taxation and freight rates; best and cheapest irrigated land anywhere; will sell 20 acres or more on terms to suit, or accept choice city or farm realty in payment. Special inducements to colonies. Write for full particulars. **STRATTON LAND CO., Wichita, Kansas.**

## IRRIGATED ALFALFA FARM

I will trade my irrigated alfalfa farm of 320 acres, every acre good, well pumping 1,500 gallons water per minute, 70 acres in alfalfa, located in the Plainview shallow water district. No junk considered.

**J. WALTER DAY, OWNER,** Plainview, Texas.

## AN ARKANSAS SNAP

For investment or a home. 160 acres good upland, no rocks; 10 acres cleared and fenced house and some orchard, balance in good timber. One mile from school and railroad station. Located on public road. Price, \$5.00 per acre.

**G. A. NALL, Lockesburg, Arkansas.**

## FOS SALE OR TRADE

For something Near Topeka—40 acres A-1 land; 16 a. alfalfa, rest to go to wheat; small barn, good well, soft water, beautiful location. Will trade for cultivated or grass land. This land is two miles from stock yards, Wichita, Kan. Address I. M. Bishop, Owner, Route 2, Wichita, Kan.

## FOR SALE

Eighty Acres of the best bottom land in Kansas. This land is all in cultivation but unimproved. The land lies due south of Salina on the Ninth Street road, only two miles from the Wesleyan University. We could sell either the north or south 80 and might get the owner's consent to sell the whole quarter. This farm has not changed hands in 45 years, and no other land in that locality is for sale at any price. Notwithstanding these facts, we are in position to offer it at \$50 per acre margin. Here is an opportunity to own the best farm in Kansas.

**The R. P. CRAVENS AGENCY, Salina, Kan.**

## AUCTION SALE FARM LANDS.

Linn County, Kansas, September 22, beginning 1 p. m. 1,300 acres choice East Kansas farm land to be sold at public auction. All good land and within ¼ to ¾ miles of Parker, Kan., a thriving town of 500 people, 62 miles southeast of Kansas City. Prosperous farm homes on all sides, church and school near. Land belongs to non-resident living in New York who has determined to sell, as he cannot personally look after it. Will be sold in forty-acre tracts and upward. Terms will carry 40 to 50 per cent of purchase price back on the land at 6 per cent, balance cash within 30 days. For full information write Col. S. L. Jackson, Auctioneer, or G. C. McConnell, Cashier Parker State Bank, Parker, Kansas.



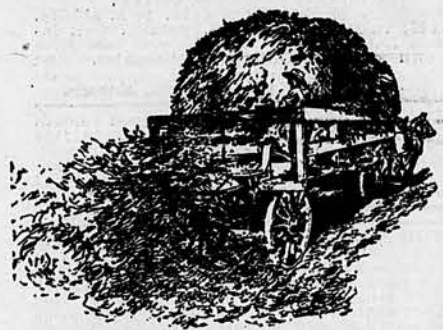
## \$500 FOR YOUR OLD STRAW STACKS!

How To Profit \$2.50 A Ton  
From Straw Right On  
Your Own Place

### DON'T BURN IT--- IT'S WORTH MONEY!

Two years ago William Knop, of Preston, Kansas, didn't realize that his old straw stacks could be made to yield an extra cash profit of \$500.00 a year, but he knows it now, because he spread those stacks on his wheat land a year ago, and banked an extra \$500.00 as the net result. He estimates his benefits at twice that.

Curtis M. Brown, of Attica, Kansas, did even better by straw mulching his new alfalfa seeding as well as his wheat.



Hundreds of other progressive farmers in various parts of the country have been saving their stacks for years, and are now converting old straw into gold with the use of a straw spreader—simply by turning it back onto the soil and allowing it to do its work as the one great natural fertilizer.

When used in this way the straw stack saves money and makes money in more ways than one. It eliminates the usual large investment made every year for commercial fertilizer. It returns to the soil those priceless plant elements taken from it in the production of "bumper" grain crops. It builds up the humus supply, conserves moisture, acts as a wind shield in preventing soil blowing—and adds as much as five bushels and even more per acre to the wheat yield and increases other crops in proportion.

You will say that all this is an old story to you—that everyone realizes the value of straw as a fertilizer and soil-saver, but that everyone also knows what a strenuous task is before him when he undertakes to spread his fields with straw

by the old-time pitchfork and hand method.

Yes, that is a strong argument against the use of straw as a fertilizer—and many stacks would continue to "go up in smoke" and take good dollars along with them if that were the only method to be used.

But it isn't the only method—in fact the "pitchfork and hand" method is not the method used by Knop and Brown and the others mentioned above.

A new labor-saver, soil-builder and money-maker for the farmer has lately been perfected to perform this very service. It is known as the "Simplex" Straw Spreader, and it is being manufactured and distributed among thousands of American farmers by the well-known firm of modern machinery experts, the Manson-Campbell Co., 825 Traders' Building, Nineteenth and Campbell Sts., Kansas City, Mo.

It was the "Simplex" that led Wm. Knop to the way to \$500.00 extra profit money from his farm last year—just as it is now showing thousands of others the way to those most acceptable "extra profits."

The "Simplex" works to perfection under most exacting conditions.

You can attach it to any header barge or hay frame, fill it high with straw—wet or dry, even old rotten stack bottoms or manure—and cover the ground thoroughly and evenly over a strip 12 to 20 feet wide.

You can easily spread 20 acres or more a day—and the labor it performs, the time it saves and the soil it builds, will pay for it in 10 hours' time. It is possible to pay for itself in a single day.

Mr. Manson Campbell has announced a special offer for the readers of this paper, which enables you to put the "Simplex" to the most exacting test—to try it out in your own way on your farm for 30 days without risking a dollar of your money in the purchase—and in 30 days the machine will give you service that will pay its cost many times over.

A very interesting and very instructive book on straw fertilizer and the "Simplex" Spreader has just been issued by Mr. Campbell. The book contains pictures of scores of the best known and most successful farmers, agricultural experts and farm journal editors and their experience with the use of straw as a soil-builder and profit-maker. The book and full information about the special 30-day free trial no-money-down offer to our readers will be sent free and postpaid to all who will write the Manson Campbell Company, 825 Traders' Building, Nineteenth and Campbell Sts., Kansas City, Mo. We advise our readers to write for the book and investigate this very liberal offer.—(Adv.)

Converse has the right sort of cattle. They are the low-down, blocky, beefy type, the thick-fleshed kind that breeders are trying so hard to produce for the show ring. Among the females are a number of cows sired by Crown Master by Prince Oederle, also a number of heifers that are granddaughters of the noted Avondale, Ingle Lad, Collynie, The Archer, New Echo and other sires of noted reputation as good breeders. Mr. Converse has a number of choice yearlings and two-year-old heifers, either bred or open, for sale at prices very reasonable for the class of cattle. If you want good foundation stock, go look this herd over. You will see 175 head of the best cattle you ever saw in one pasture. Don't wait to write, but go look them over and you will buy. Kindly mention Kansas Farmer.

#### Important Sale of Shorthorns.

We wish to call the attention of our readers to the public sale of Shorthorn cattle to be held at Girard, Kan., on Wednesday, September 23. This offering is an exceptionally well-bred lot of useful breeding cows and heifers. Any farmer can buy these young cows at good prices and they will make money if given any care. Mr. Andrew and Mr. Cowley are both successful breeders and have been years in building up these herds of cattle. They are selling some of the very best from their herds. Mr. Cowley will consign a red cow by Secret Archer, a splendid cow by Captain Archer due to calve next month, and one roan cow by Imported Cowslip; two open heifers by Ingle Lad Jr. by Ingle Lad and out of Sweet Mistletoe by Imp. Collynie. One of these is a fine white animal; the other, a roan, is a show prospect. Also three good young bulls of serviceable age. Mr. Andrew consigns ten fine young bulls of serviceable age, both reds and roans; eight choice red and roan heifers, open. The remainder consists of large, richly-bred red and roan cows, soon to freshen, or with calves by side and rebred to Orange Major, the pure Scotch herd bull. Don't fail to attend this sale.

#### Waltmire & Son's Offering.

Attention is called to the card of W. W. Waltmire & Son, of Peculiar, Mo. At this time they are offering a choice lot of Oxford and Hampshire rams. Their offering this year is in fine breeding condition, not loaded down with fat and are the kind that will make good. They are also offering a choice lot of O. I. C. bred sows. These sows are from show stock and have the size and quality. They are bred to the great show boars of the Waltmire herd and are of the best breeding of the herd, such as Callaway Pat, an 800-pound sow that won a large number of ribbons at the leading fairs. They were sired by Raymore Chief, first prize winner at American Royal and Proud Dick, also a winner of many prizes at leading fairs and a very showy boar with size and quality. They also have an extra fine lot of spring pigs for sale. All hogs are immunized by the double treatment. They are making bargain prices on both hogs and pigs. Write them for prices, mentioning Kansas Farmer.

#### Bargains in Draft Stallions.

Anyone wanting draft stallions should look up the card of A. Latimer Wilson, of Creston, Iowa. In this issue of Kansas Farmer, Mr. Wilson is offering a choice lot of imported and home-raised Percheron, Belgian, Suffolk Punch and English Shire horses at their actual value. This is the time to buy imported stallions at their value, as the present war in Europe is sure to interfere with importations of horses and the effect is sure to be higher prices. Breeders wanting stock for next season should not miss this opportunity to buy horses worth the money. Write for description and prices, mentioning Kansas Farmer.

#### W. E. Hogan's Shorthorns.

The attention of Shorthorn breeders and farmers wanting high-class registered Shorthorn cattle is called to the card of W. E. Hogan, of Madison, Kan. He has a very select herd that was established over twenty years ago with the best foundation stock of the breed that could be obtained at that time. The additions made to the herd from time to time have always been of the best blood and individuals, and anyone wanting Shorthorn herd improvers should investigate this offering consisting of high-class registered cows with calves at side and rebred and a choice lot of heifers and young bulls. Write Mr. Hogan at Madison for description and prices, or visit him and inspect the offering he is making at bargain prices. Mention Kansas Farmer when writing.

#### Lookabaugh's Shorthorns.

Note the change in the ad of H. C. Lookabaugh, of Watonga, Blaine County, Okla. His is the largest herd of registered Shorthorns in the United States; over 300 females in the herd. They represent a lifetime of careful breeding. The blood lines are of the best Scotch families and as individuals there are none better. Mr. Lookabaugh's herd will be represented at a number of the state fairs. Don't fail to see them while attending the fairs.

#### Riley & Son's Sale October 8.

J. O. Riley & Son, owners of the famous Lynn Grove herd of original big-boned spotted Poland Chinas, are reserving their spring boars and gilts for their annual fall sale to be held at Cainsville, Mo., October 8. Lynn Grove herd is noted for the number of herd headers it has produced. It is also one of the herds that has produced a great number of the noted sows of that popular breed of hogs. The hogs that will go in their October 8 sale will be one of the best lots they have ever sold. They have been carefully selected and are of the best breeding, and include Spotted Boy, Billy Sunday, Cainsville Boy, Lucky Judge, Brandywine, Clipper, Lamar Chief, Goodenough, Lineville Chief and Clifton blood lines. Look up their ad in this issue and send your name now for a catalog. It will interest hog breeders wanting the best breeding stock to be had. Please mention Kansas Farmer when writing.

#### Big Jersey Dispersion Sale.

Attention is called to the sale of Jersey cattle to be held by H. C. Johns, of Carthage, Mo., September 22, 1914. On that date under the management of B. C. Settles, of Palmyra, Mo., Mr. Johns will sell one of the greatest offerings of Jersey cattle that will be sold this year. This will be a dispersal sale and will include daughters of Tullip's Mon Plaisir, Eminent Rosette, Golden Jolly of St. Peters, Derry Lad's Prince, Warbler's China Lad, Noble of Trinity, Noble's Reminder, Amna 2d's Tormentor, Crusoe's Noble, Combination, Stockwell, Brighton Lad, Bonnie's Czar, Our Golden Czar, Sophie's Champion, Stockwell, Ramgates Champion, Bombay's Bismarck, Oxford Lad's Successor, Carnation's Fern Lad, Silverline's Lad and other noted sires. The herd is headed by Tullip's Mon Plaisir 61923, one of the great bulls of the breed and a tried sire of exceptional merit. Send to B. C. Settles, Palmyra, Mo., for catalog, and arranged to attend this big sale and at the same time attend the Southwest Dairyman's convention. Please mention Kansas Farmer.

#### McKay Brothers' Holsteins.

Farmers and dairymen wanting high-class

## AUCTIONEERS.

### LAFE BURGER LIVE STOCK AND REAL ESTATE AUCTIONEER

Wellington - Kansas

### FRANK J. ZAUN

Fine Stock Auctioneer. Independence, Mo.  
"Get Zaun. He Knows How."  
Bell Phone 675 Ind.

P. E. McFADDEN, HOLTON, KANSAS.  
Live Stock and General Farm AUCTIONEER

### R. L. HARRIMAN

Live Stock Auctioneer. Write for dates, terms, etc. Address, Bunceton, Missouri.

Col. C. A. HAWK Live Stock and General Auctioneer.  
Effingham, Kansas.

John W. Miner Live stock auctioneer. Give me Reserve, Kansas. a trial.

J. A. MORINE, GENERAL AUCTIONEER.  
Pure-bred Live Stock a Specialty.  
Box 155. Lindsborg, Kansas.

Col. C. M. Scott Live Stock and General AUCTIONEER  
Hiawatha, Kansas

COL. J. E. MARKLEY  
Fine Stock and General Auctioneer  
Pawhattan, Kansas.

COL. FLOYD CONDRAY Stockdale, Kansas.  
References—My Customers.

Col. Jesse Howell Live Stock Auctioneer.  
Write or wire for terms.  
Herkimer, Kansas.

## TOO LATE TO CLASSIFY

SHROPSHIRE, closing out cheap. Thirty head, including ewes, lambs and imported ram. B. B. Johnson, Route 2, Springfield, Mo.

dairy stock should get in touch with McKay Bros., Waterloo, Iowa, owners of the famous Genesee herd of Holsteins. Their herd is headed by Alcatraz Polkadot Corrector, dam record 39.08 pounds; sire of Genesee Bell Polkadot, 34.056 pounds; seven daughters over 20 pounds. Korndyke Queen De-Kol's Prince, also in use in this herd, is the sire of 52 A. R. O. daughters. Forty-two out of 46 cows and heifers in this herd, ranging in age at calving from under 2 years to full age, have an average of over 20 pounds A. R. O. They are now offering a number of choice bulls and a few cows and heifers. They have been breeding Holstein cattle for thirty years and by constructive breeding have built up one of the greatest herds in the West. They guarantee all stock just as represented. Look up their card and write them for prices and descriptions. Please mention Kansas Farmer when writing.

#### W. W. Otey's Sale Good.

The Duroc sale advertised by W. W. Otey & Son was pulled off as advertised. A number of breeders from Kansas and Oklahoma were present and bought. The most keen competition seemed to be for sows sired by Good Enough Again King and bred to Otey's Dream. The thirty head catalogued averaged \$46.60. No 30 topped the sale, going to G. M. Shepard of Lyons, Kan., at \$100. No records were broken or high averages made, but the returns received on the total were very satisfactory to Otey & Son.

#### Doyle Park Shropshires.

Farmers or breeders wanting sheep should look up the advertisement of Homan & Son, of Doyle Park Stock Farm, Peabody, Kan. This firm of well known Shropshire breeders has a splendid offering of rams again this year and will make prices that will interest anyone wanting Shropshires. They can furnish breeding stock not related. Their sheep are recorded in the American Shropshire Sheep Association and they furnish recorded pedigree with every sheep sold. Get their prices before buying.

#### Lungren's Choice Durocs.

Enoch Lungren, of Osage City, Kan., who is now advertising spring boars and gilts and bred sows and fall gilts, has some of the best of Duroc Jersey blood in his herd. His stock carries the blood of such well-known sires as Prince Col. by G. M.'s Col., Osage Chief by Tatarax, Chief Model by Golden Model 3d, he by Model Superba 2d by Superba, Enoch's Choice by Critic's Model by Carl's Critic. The sows and fall gilts offered are all bred to E. L. Col. by Col. I Am 2d by Col. I Am. The full brother to the grand dam of this boar was grand champion at the Missouri State Fair last year. Mr. Lungren has ninety head to select from and can supply the wants of the most critical buyer. Write him for prices and description, or better visit his herd if convenient.

#### Ballew's Oxford Down Rams.

Attention is called to the card of T. T. Ballew, Columbia, Mo., one of the leading breeders of Oxford Down sheep in that state. This year Mr. Ballew has a very select offering of one, two and three-year-old rams that will be sold reasonably. Anyone wanting Oxford Down rams should write at once and get description of stock and prices. Please mention Kansas Farmer when writing.

The Duroc sale of W. T. Hutchison, of Cleveland, Mo., was pulled off as advertised. The offering was one of the best ever sold on this farm. Only a few breeders were present, but the local support was good. No record prices were broken, the top price being paid for No. 6, which went to George J. Evans, Raymore, Mo., for \$37. The entire lot of 52 head catalogued sold for an average of \$43.62.

Attention is called to the card of C. E. Bean, owner of The Dells Stock Farm, Garnett, Kan. Anyone wanting Holstein cows or calves should get in touch with him. He has a good offering. He also offers a choice lot of Poland China hogs, either sex; three fine young jacks, a fine Percheron stud colt and a standard-bred horse. He is pricing stock reasonably. Please mention Kansas Farmer when writing.

#### Market for Waste Material.

Dyal Bros. & Co., of Topeka, offer a market to every farmer for old rubber shoes, tires, scrap steel and iron, bones, rags, copper, brass and many other things that are many times wasted. A good many people are making good wages systematically collecting the above and shipping to them. On nearly every farm there is material to be collected. Pick it up the first rainy day and send to them. Write for quotations.

## HIGH CLASS HOLSTEINS AT AUCTION

I will hold my first dispersal sale of 78 head of Holstein Cattle at Justamere Farm, Abilene, Kansas, on

### Thursday, October 15

Commencing at 10 a. m.

Herd consists of herd bull, Abilene De Kol, Number 110552, age 4 years. Sixteen cows, all in the Dickinson County Cow Testing Association. Ten are from 4 to 7 years of age and have an average yearly record of 11,208 pounds of milk and 514 pounds of butter. Two of these have better 30-day records than Maid Henry, the highest record cow of the state in her time. Five heifers that have not completed the year's test are very promising. Registered cow consigned by L. Reep of Abilene. This herd led the Association last year and is leading it this year. Every one to be sold. This is the chance to get one at your own price. Eleven heifer calves, three grade bull calves, three registered bull calves. Registered yearling bull consigned by L. Reep. Fourteen yearling heifers, most of them bred to registered bull. Twenty-nine two and three-year-old heifers, all bred, some springers. Ten of these heifers and one of the bulls will start you right. Write for descriptive lists.

Free Lunch at Noon.

### A. B. Wilcox, Prop. Abilene, Kan.

James T. McCullough and W. A. Callahan, Auctioneers.

At ordinary prices, farm-raised, registered Percheron studs, 1, 2, 3 and 4 years old. Kind dispositioned because well cared for. You would admire their big bone first, then their immense weights, because they are developing big like their imported sire and dams. And you will receive true old-fashioned hospitality on your visit at Fred Chandler's Percheron farm. Just above Kansas City.

FRED CHANDLER, ROUTE 7, CHARITON, IOWA.

## FIELD NOTES

Eighty Head of Poland Chinas. Don't fail to send for a catalog and arrange to attend the big Poland China sale at Pilot Grove, Mo., Friday, September 25. In this sale will be 20 head of large fall yearlings by a son of Long King's Equal, sold open; 40 fall yearling gilts bred for October 1 litters; 10 tried brood sows with litters at side; three extra good fall yearling boars, herd headers. O. W. Devine will attend this sale, and if you cannot attend,

write or wire him in care of Bert Harriman at Pilot Grove, Mo. Remember the date is September 25, 1914.

#### Shorthorn Cattle.

In this issue will be found the card announcement of M. S. Converse, of Peabody, Kan. Mr. Converse has bred Shorthorn cattle for a number of years and has now 175 head of richly-bred cattle. Part of the foundation stock was brought from Iowa and bought from the best herds in the East. Any prospective purchaser will only have to visit this herd to be convinced that Mr.











MT. VERNON BELL

Remember the Date is September 25th 1914

## Poland China Sale Pilot Grove, Mo., Sept. 25

### Eighty Head of High Class BIG-TYPE POLANDS

Twenty big smooth fall yearling gilts, sired by a son of Long King's Equal; sold open. Forty yearling gilts bred for early October litters. These are sired by Mt. Vernon King and Mt. Vernon Hadley.

Ten sows with fall litters. Four yearling boars, extra large with plenty of quality.

This is the best lot ever sold from this farm. Every one guaranteed as represented. This will be an opportunity to buy the best at very reasonable prices. All will be sired by or bred to my herd boars, Mt. Vernon King and Mt. Vernon Hadley.

If unable to attend, send bids to O. W. Devine, who will buy for you.

**BERT HARRIMAN, PILOT GROVE, MO.**

## O. I. C. SALE, MERIDEN, KAN.

Having Determined to ease up in our work we shall disperse our herd of O. I. C. Hogs

**Thursday, October 1, 1914  
Fifty Head Will Be Sold**

Fifteen boars, 35 sows, including three 1913 fall boars, 12 spring boars, one 3-year-old sow and three first-litter sows, open; also eleven 1913 fall sows bred, and twenty spring gilts. They are from prolific families and have scale and finish. There are no bad backs or feet or wrinkles in this herd. Send name for catalog. Mail bids to Auctioneer or Fieldman in our care.

**ALVEY BROS.,**  
COL. FRANK ZAUN, Auctioneer.

**MERIDEN, KANSAS**  
O. W. DEVINE, Fieldman.

## GRAFF'S FIRST ANNUAL MULEFOOT HOG SALE

At Rosendale, Mo., Thursday, October 1, 1914.

Sixty Head of March and April Boars and Gilts. Seven Yearling Boars. Ten Head of Tried Sows bred to farrow in December and January.

This offering is sired by the famous herd boar, Dodger Chief, and out of champion dams. Dodger Chief will sell on day of sale. Send name for catalog at once.

**ERNEST E. GRAFF -- ROSENDALE, MISSOURI**

### HORSES AND MULES



#### JACKS AND JENNETS

20 Large Mammoth Black Jacks for sale, ages from 2 to 6 years; large, heavy-boned, broken to mares and prompt servers. A few good jennets for sale. Come and see me.

**PHIL WALKER,**  
Moline, Elk Co., Kansas.



#### M. H. ROLLER & SON

Circleville, Kan.  
Fourteen big jacks, 25 jennets. One imported Percheron, one high-grade Belgian stallion.

**PERCHERONS FOR SALE.**  
Write for prices and descriptions.  
**JAS. C. HILL, Holton, Kansas.**

A. Latimer Wilson, Creston, Iowa. Home-bred draft stallions \$250 to \$650. Imported stallions cheaper than anywhere else. Come and see.

### POLLED DURHAM CATTLE

#### ROAN HERO 3613 - 229963

THE INTERNATIONAL CHAMPION heads my herd of Double Standard Polled Durhams. Few choice young bulls for sale. Mo. Pac. Railway 17 miles southeast of Topeka, Kansas. Farm adjoins town. Inspection invited.  
**D. C. VAN NICE, Richland, Kansas**

### POLLED DURHAMS FOR SALE

Herd headed by Roan Hero. Choice and Matchless Avon. Young stock, both sexes, for sale. Prices reasonable. Come and see my herd.  
**C. J. WOODS, CHILES, KANSAS.**

### BERKSHIRE HOGS



#### Large English BERKSHIRES

Choice bred sows and gilts; fall farrow. Choice pigs sired by prize winning boars, either sex.  
**H. E. CONROY, Nortonville, Kansas.**

### SHROPSHIRE SHEEP

#### REGISTERED SHROPSHIRE RAMS

Sired by Imported C H Justice (010035R). Choice rams and priced to sell.  
**E. E. LAUGHLIN,**  
Rich Hill, Bates County, Missouri.

#### ELLIOTT'S SHROPSHIRE

Choice two-year-old and yearling rams, sired by imported Buttar ram. Also choice ewes, will be bred to imported ram. Prices reasonable. Satisfaction guaranteed.  
**J. W. ELLIOTT, Polo, Mo.**

#### Doyle Park Shropshires

Fall is here and so are we with a choice lot of registered Shropshire rams. If you need one, write us for prices.  
**DOYLE PARK STOCK FARM,**  
O. A. Roman & Son, Peabody, Kansas.

#### SHROPSHIRE RAMS AND EWES

150 yearling and two-year-old rams. One imported four-year-old Cooper ram. Ewes any age. Write or visit us. Prices reasonable.  
**DANIEL LEONARD & SONS, Corning, Iowa.**

#### 1894 SMALLEY'S SHROPSHIRE 1914

We offer one and two-year-old registered Shropshire rams of the best breeding and individual merit. Genuine flock header material.  
**M. W. SMALLEY & SONS, Blockton, Iowa.**

#### YEARLING RAMS.

Yearlings, \$20 to \$30. Also registered Scotch Collie pups, \$3 and \$5. Will show at Topeka State Fair, September 14.  
**Clarence Lacey, Maple Hill Farm, Meriden, Kansas. Mutual and Independent Phones.**

### OXFORD DOWN SHEEP

**REGISTERED OXFORD DOWN RAMS.**  
One, two and three years old, priced right.  
**T. T. BALLEW, Route 2, Columbia, Mo.**

**OXFORD AND HAMPSHIRE SHEEP.**  
O. I. C. Hogs, Choice Rams, Bred Sows from show stock. Bargain prices. Hogs immunized, double treatment.  
**W. W. WALTIRE & SONS, Peculiar, Mo.**

### Breeders' Directory

The following classified list contains the names of many of the reliable breeders of pure-bred live stock. They will gladly answer your inquiries. Your name should be in the list. If interested, write Live Stock Department, Kansas Farmer, for further information.

**HEREFORD CATTLE.**  
**H. V. Baldeck, Wellington, Kan.**

**ANGUS CATTLE.**  
**R. Blenkinsdorfer, Lebanon, Mo.**

**JERSEY CATTLE.**  
**C. J. Morek, Storden, Minn.**

**AYRSHIRE CATTLE.**  
**Leveland Farm Co., Omaha, Neb.**

**POLLED DURHAM CATTLE.**  
**J. H. Walker, Lathrop, Mo.**

**BERKSHIRE HOGS.**  
**N. H. Gentry, Sedalia, Mo.**

**HOLSTEIN CATTLE.**  
**T. M. Ewing, Independence, Kan.**  
**S. E. Ross, Route 4, Creston, Iowa.**

**SHORTHORNS.**  
**G. A. Laude & Sons, Rose, Kan.**  
**C. H. White, Burlington, Kan.**

**RED POLL CATTLE.**  
**John M. Goodnight, Fairgrove, Mo.**

**SHROPSHIRE SHEEP.**  
**Locust Lawn Farm, Oakland, Ill.**

**POLAND CHINA HOGS.**  
**P. M. Anderson, Lathrop, Mo.**  
**Wm. Griffith, Mitchellville, Iowa.**  
**Henry Koch, Edina, Mo.**  
**W. A. Prewett, Asherville, Kan.**

**DUROO JERSEY HOGS.**  
**D. O. Bancroft, Osborne, Kan.**  
**Judah Bros., Hiattville, Kan.**

**HAMPSHIRE HOGS.**  
**H. D. DeKalb, DeKalb, Iowa.**



## JACKSON COUNTY BREEDERS' ASSOCIATION

A whole community banded together to boost for more and better live stock.

**WATCH FOR THE SIGN OF MEMBERSHIP**

Every member advertising uses it.

Annual stock show in Holton, Sept. 30-Oct. 2. Correspondence invited.  
**Bruce Saunders, Pres., Holton, Kan. Devere Rafter, Sec'y, Holton, Kan.**

### SHORTHORN CATTLE

### SHORTHORN CATTLE

## 175 HEAD OF SHORTHORNS

Consisting of many choice animals carrying the blood of noted sires. Foundation stock purchased from the best breeders. Fifty head must sell in sixty days. Start in the Shorthorn business. All kinds of Shorthorn breeding stock from which to select—cows, heifers and bulls, cows with calf at side, others due to calve soon, grandsons and daughters of such sires as Avondale, Prince Odeic and other noted sires. Write, wire or phone me when to meet you at Peabody, either Rock Island or Santa Fe depot.  
**M. S. CONVERSE -- -- -- PEABODY, KANSAS**

## LOOKABAUGH'S SHORTHORNS

250 HEAD IN HERD.

Scotch Herd Bulls—Avondale type and blood.  
Scotch Heifers—Not related—the kind to start with and start right.  
Milk Shorthorn Cows—The farm cow—fresh now.  
Bugged Young Farmer Bulls and Heifers—Good bone and size—one to a carload, either sex, \$75 to \$150 per head.  
Two Heifers and a Bull—Not related—\$250 for the three.  
**H. C. LOOKABAUGH, WATONGA, OKLA.**

### RIVERSIDE SHORTHORNS

Am offering ten head of nicely-bred females, reds and roans. Clipper Model 386430 and King Clipper 393421 at head of herd.  
**H. H. HOLMES,**  
Great Bend, -- Kansas.



#### OAK GROVE SHORTHORNS.

Every cow straight Scotch. Herd bull, White Starlight by Searchlight; Choice Goods, dam.  
**ROBT. SCHULZ, Holton, Kan.**

#### CEDAR LAWN SHORTHORNS.

Seven young bulls, 8 to 12 months of age, by Secret's Sultan. Also younger bulls and some good yearling heifers and cows in calf or calves at side. Prices reasonable.  
**S. B. AMCOATS, CLAY CENTER, KAN.**

**BARGAINS IN YOUNG COWS.**  
Six choice bred young cows, too nearly related to new herd bull to retain. Blood of Searchlight, Pavonia, Gallant Knight. Also old herd bull, Baron Cumberland. Farm on Strang line near Overland Park.  
**DR. W. C. HARKEY, Lenexa, Kansas.**

**Shopping Made Easy.**  
It is as easy now for the woman on the farm to shop as it is for the city woman. The "National" advertisement on another page tells you how.

### ANGUS CATTLE



"BLACK DUSTER" heads our herd of richly bred cows. Choice cows with calves at foot and re-bred. Also young bulls. Berkshires.  
**GEORGE McADAM, Holton, Kan.**

### OHIO IMPROVED CHESTERS

#### MAPLE LEAF O.I.C.'s

We are offering two fine fall boars, a few good gilts, spring pigs sired by our grand champion boar, Don Ben 2d 3181; can please you in both quality and price.  
**E. W. GAGE, Mount Ida, Kansas.**

#### FROST'S O.I.C.'s

The herd with a record for producing prize winners. Choice breeding stock, both sexes. Priced to sell quick.  
**S. D. & B. H. FROST, Kingston, Mo.**

**WALKER'S O. I. C. HOGS.**  
Write for prices.  
**G. A. WALKER, Bogard, Missouri.**

George McAdam, of Holton, Kan., writes that he has sold his old herd bull and several young bulls but still has four extra good young ones ready for service. Write him for prices.