

KANSAS FARMER

FOR THE IMPROVEMENT OF THE FARM AND HOME

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The American Farmer a Meat Packer

President H. J. Waters Tells of The Economy of Home Cured Meats

The farmers of Kansas, which is one of the first live stock states in the Union, buy from the butcher shop annually from \$3,500,000 to \$7,000,000 worth of meat. They produce this meat themselves. It consists chiefly of breakfast bacon, ham, salt pork and fresh beef. These meats will retail from 35 to 40 per cent more than their wholesale prices at the packing houses, if the figures given out by Secretary Wilson are correct. It is safe to say that, allowing for transportation from farm to packing house, the retailing, selling, etc., of these meats when returned to the farmer through the retailer, are bought by him at an increase of at least 50 per cent. In doing this they contribute to the profit of the other man one-half the value of the stuff they themselves produce. This startling statement served as an introduction to one of the most highly valuable and interesting papers that has ever been delivered to the Kansas audience. President H. J. Waters of the State Agricultural College addressed the largest attendance of the membership of the Kansas Improved Stock Breeders Association that has been had for years. Representative Hall was crowded with interested listeners to hear the President tell of facts which are of vast interest to them and about which he knows more intimately than do most men.

President Waters had sent out a series of questions to some 600 prominent farmers in every one of the 105 counties of Kansas. He received answers from 97 different counties, and these answers when summarized showed that very few farmers cure the meat that they need for home use; that there is very little cooperation in killing on the farm, as might be the case if beef clubs were organized, and that it is a common practice according to these letters to depend on the butcher shop and farm poultry for the family meat supply during from six to nine months of each year. Estimates as to the value of meat brought by the average farm family of five persons varied from \$10 to \$300 a year. The average was \$55, and on this basis the Kansas farmer's total meat bill is \$7,335,000 a year, or enough to support the entire state government and the schools for two years.

President Waters then brought up the question of why the farmers had ceased to cure meat for themselves. In former years when the farm was nearly the center of family life when the family lived more completely upon the produce of the farm and less upon breakfast foods and other goods, it was the practice to cure all meats except poultry that were required by the family for a year. Beef clubs in neighborhoods cooperated in this work, but the increased prosperity of the farmer and the recent high prices of animals on the hoof has permitted the meat curing industry on the farm to become almost a lost art.

Being an expert in such work as he has done in all other work pertaining to the life, President Waters was deeply concerned about these questions. He reported that his numerous letters to the farmers brought out the fact that, generally speaking, they did not cure meat on the home farm because they did not know how. Another contingent reported that they

did not have the necessary facilities including the smoke house, while some reported that the meat spoiled, that insects interfered with its keeping, that it became strong in the summer time, or that it got so salty as to be unpalatable, all of which are confessions of ignorance as to how to cure meat.

An elaborate equipment is not necessary for the curing of meats. A wooden smoke house with an earth floor will answer every purpose, and the profits paid to the packing house and the butcher shop for one year on the basis of the average cost of \$55 per family mentioned before, would buy all of the equipment needed by the farmer, although not of the best or most convenient kinds. Killing should be done by the end of January, though for best results, about the Christmas holidays is the time. This would allow ample time to cure and

smoke the meat and have it stored away before the arrival of the insects which produce the skippers of which some farmers complain. Beginning with a march or April hog of 200 to 225 pounds, the curing is a matter of personal skill and attention. There are several ways of producing ham or bacon with superior flavor and one of the essentials in any process is length of time.

The reason the packing house ham is so lacking in flavor is because it is cured and sold quickly. Generally speaking, there are two methods of curing meat in common use, both of which are good. These are the dry cure and the brine cure and the farmer should choose the one he likes best, though it is true that the highest quality and richest flavor will be produced through the use of the dry cure. Brine destroys a considerable quantity of the soluble protein in the

meat and thus removes an element of flavor and food value. Any piece of meat which has been soaked or even wet is never again as good as it was.

There is no best way of curing meat. It is largely a matter of taste and judgment. Here is the approved dry cure: For 1,000 pounds of meat use the following compound: 40 pounds of common salt, 10 pounds New Orleans sugar, 4 pounds black pepper, 1½ pounds of saltpetre and ½ pound of Cayenne pepper. Weigh the meat and use such parts of the compound as that weight is a part of 1,000. Allow the meat to cool thoroughly and after the ingredients have been properly mixed use one-half of the amount for rubbing into the meat. Place the meat in a dry, cool place but never in a cellar. Allow it to remain for two weeks and then rub on the remainder of the cure and let it lie for about six weeks, when it is ready to smoke. Smoking should be done slowly and should occupy from four to six weeks with very little heat. Slow smoking gives a very delicate flavor. After smoking is finished wrap each piece in paper, put in an unwashed flour sack and hang in a dry place.

President Waters exhibited a ham to his audience which had been cured four years ago. This ham was covered with a sort of mold and had a dried up appearance. It was not an attractive looking object, but the audience was assured that when the mold was brushed and washed off and the ham boiled whole it would prove to be of delicious flavor and high quality as the nutrient elements were all preserved. Any one who has never tasted home cured ham can scarcely realize the possibilities in delicious flavor and good value it possesses.

The brine cure requires exactly the same materials as the dry cure with the exception of the pepper. When the meat is properly cooled it is rubbed with salt and allowed to drain over night. It is then packed in a clean barrel with the heavier pieces like hams and shoulders at the bottom. For every 100 pounds of meat use 8 pounds of salt, 2 pounds brown sugar, and 2 ounces saltpetre. Dissolve these in 4 gallons of water and cover the meat with the solution. The thin sides of meat should remain in this solution from 4 to 6 weeks, and the hams from 6 to 8 weeks. After the meat has been thoroughly cured and dried it may be smoked as in the case of the dry cure.

Judging by the attitude of his audience and by the letters which have been received by him since the delivery of his address, President Waters could not have selected a more timely subject or one of more immediate interest to his auditors. There can be no question that home cured meats have a delicious flavor that can not be secured in the packing house products because of the difference in process of curing. Hog killing time comes at a season of the year when there is not a great deal of extra work to be done, and cooperation among the neighbors in this matter would secure this delicious product for their own eating and result in a saving of a very considerable item of expense to each family concerned. It is a matter of fact that the profit to be derived from the farm in the future will come through economy in produc-

(Continued on page 5.)



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KANSAS FARMER

EDITORIAL



THE FAMILY READING MATTER.

Good reading matter is a necessary part of the equipment of the modern home; more especially of the farm home. Perhaps the city man does not need reading matter so much as does the farmer, though he would be the better off for having it. But in the farm home it is not only needed but it is more highly appreciated than anywhere else. A library of good books is a wellspring of mental life and moral uplift but these must be well selected and they must be supplemented by magazines and newspapers. Books and magazines are the solid meat of the mental meal; newspapers are the dessert. Standard works on farm buildings, stock breeding, special crops, horticulture, soils and poultry should be read and preserved for reference. The learned man is not he who has read all books but he who knows where to find what he needs in them. Of the magazines the farm paper will come first as it is the trade journal of the farmer. In this he demands real information which will help him in his business and home life. Not a political paper nor yet a newspaper, nor a mixture of the two. He can get such matter as they would afford elsewhere. The real farm paper is the extended text book, the encyclopedia, to whose weekly sections he can turn for the latest current information with the assurance that it is reliable.

His farm paper, the one farm paper for him, should be published in his home state. He may take many others but the one which is and must be of greatest value to him must be the one which is published at home and which deals with those conditions under which he must live and work. Many such papers are published in these United States, and they are excellent, but such a paper published in Maine or Georgia would have comparatively little value to the Kansas farmer whose surroundings, crops, weather conditions and soils are so different from those of other states.

There is no investment which the farmer of today can make which pays such big dividends as does the real farm paper. It is his companion, his aid and his counsellor and he gets many times its cost in the practical information contained in its columns besides the aid rendered him in other ways. For instance, with his subscription to his farm paper the farmer has an opportunity to buy other farm papers and standard books at special prices. This is an opportunity not offered elsewhere and a reference to our advertising columns will show its full meaning.

Perhaps even now you are thinking about seed for the season's planting. If so you are in the position of having a supply on hand; of having a surplus which you can sell or of having to buy for your own use. In either case it will pay you to test the seed which you propose to plant and upon which your next season's success or failure will depend. If you have seed for your own use you cannot afford to be uncertain about its quality. If you have some for sale you can get a much better price by being able to certify as to its quality, while if you must buy you want your money's worth. Corn is easily tested but with the smaller seeds the matter is somewhat more difficult. In any case a good seed cleaner or fanning mill is necessary for best results. In the case of grass, alfalfa or other small seeds there is the double danger of poor germinating powers and a mixture of other seeds. The weed seeds may be eliminated by the fanning mill in some cases but if the seed is very foul it is better and cheaper to reject it entirely than to sow future trouble for yourself. If you cannot test seeds for both germinating powers and impurities then send a sample to the Agricultural Experiment Station and get exact information about it. This will pay.

A number of the larger cities of the country are holding land shows with the idea of affording an educational exhibit of the farming resources of their several states and with the more immediate purpose of inducing immigration. Census figures and economists are both warning the people that farm conditions

are not what they should be and that our cities are growing much too fast for the growth of the country populations. They point out that the lure of the city which yearly calls many of our brightest and best from the farm to the town together with the enormous immigration of foreigners who almost invariably locate in the cities, has increased the non-producing element too rapidly and a scarcity of farm products is sure to result. One way of stemming this tide towards the city is to interest people in the possibilities of farm life and this the so-called land show is intended to do.

At its meeting held in Chicago during the International the committee on the W. A. Harris memorial decided that the monument should take the form of a bust of Colonel Harris mounted upon a suitable pedestal; that this monument should be located upon the Kansas State Agricultural College grounds at a specific point to be selected by a special committee; that a committee consisting of President H. J. Waters of the Kansas Agricultural College, A. H. Sanders of the Breeders Gazette, Chicago, and B. O. Cowan, assistant secretary of the American Shorthorn Breeders Association, Chicago, be authorized to enter into contract with an artist for the construction of the memorial and pedestal at a cost not to exceed \$1,500. It was also agreed that designs for the memorial should be submitted to the committee at Manhattan as early as possible.

The present state administration favors taking the office of State Fish and Game Warden out of politics and putting it upon a scientific basis. If this office is ever to amount to anything in the way of good to the state and not to the office holder alone it surely must be both taken out of politics and placed upon a scientific basis. A good many years ago there was considerable agitation in regard to damming the draws and the construction of artificial ponds as a conservation measure. The idea was right and under the direction of a scientific warden the state may yet enjoy the benefits of such conservation and have an occasional fish or quail on the side.

In his annual address before the fourteenth annual convention of the American National Live Stock Association, President Jastro gave out the following conviction: "There is something artificial and unsubstantial about the magnet which draws labor from the farms and ranches to the cities and factories, and this pertinently and ominously suggests many inquiries relative to our future welfare and prosperity. Agriculture has been the basis of our prosperity ever since we became a nation. In the earliest periods of our national life our

imports largely exceeded our exports. In later years the exportation of the surplus products of our soil reversed conditions, and the balance of the international trade has been largely in our favor. We have purchased with a lavish hand the products of other countries in exchange for our agricultural surplus. Now we notice in our foreign trade a steady diminution of the exports of manufactured articles. I do not regard this as a healthy condition. I am fearful that the diversion of our energy from the farms and ranches to the factories spells an unnatural development which may in time react most severely upon our nation."

Kansas is largely a limestone country and while this fact has been of immense value to her agricultural soils, it may have in it an element of danger as well. Because of its porous character and its solubility in water a limestone country affords more opportunity for the pollution of wells and springs than exists over any other rock formation. It is not merely convenience which demands better sanitation about our homes, it is health and even life itself. Water percolating through sandstone is purified but that through limestone may carry contamination a considerable distance.

Now is a mighty good time to devote some study to the seed and nursery catalogues. They are always interesting reading but now they may be made a profitable study. Kansas is a great state but she needs more people to develop her mighty resources. In order to get these people and hold them here there must be some attraction. Big crops of grains and fruits will do it but people will come more readily and stay longer if there are some shade trees and rose bushes in the life we have to offer them.

Some people, and especially farmers, have gotten the idea into their heads that because they do hard physical work, most of which is out of doors, they do not need any recreation. Some others look forward to the time when they can afford to cease work altogether and simply "loaf and content their souls." One of these ideas is as bad as the other and both are wrong. No man or woman can afford to work without recreation any more than they can afford to drop all work and loaf. The man who works continuously without relaxation becomes an automaton and lacks that much of being a man. The man who makes a successful loafer must have been trained for his job. An active farmer or business man who tries to become a loafer, permanently, will almost surely become an invalid or worse. Rest is necessary and recreation is equally so but the latter may be found in a change of work.

BUSINESS AND FARMING.

Perhaps at no time and in no country have commercial interests been so active in agricultural welfare as at present in the United States. Evidences of this are seen on every side. The railroads, which represent one of the largest aggregations of capital in the world, are not only running educational trains at their own expense for the direct benefit of the farmers but they are buying pure bred stock for their use; establishing experimental farms and, in one case at least, actually buying up cheap farms, improving them and selling them at cost.

These things are not done from charitable motives, although no money is made on the initial transaction. It is purely a business matter for the railroads to do these things. The men who are responsible are keen, far sighted business men. They realize that there is no new country to open up and their own growth and development will depend, in the future, upon the agricultural prosperity of the territory which they now occupy.

Up in Chicago, next month, there will be held a meeting of grain dealers who compose one of the greatest associations of business men in this country. The chief object of this meeting is a discussion of ways and means for obtaining larger yields of better crops. To aid them they have invoked the aid of the Department of Agriculture, the experiment stations, grain dealers, millers, railroads, corn shows, bankers, farmers, clubs, breeders' associations, implement manufacturers, and a host of other interests. These men want better seeds for the farmers and are going to get them if they can. This is not a charitable proposition in any sense. It is plain business.

Early in the present month there was held another great meeting in Chicago which is of vast import. This resulted in the organization of a national record association in which all of the record associations of this country are brought together for the purpose of improving the live stock of America. This new association will attempt by united action to secure the passage of needed state and national laws for the benefit of the live stock interests; a uniformity of custom and of premium lists at state fairs and stock shows; railroad rates on breeding and on exhibition stock and other matters of value to all. The associations forming the membership of this organization represent more than 100,000 active breeders in every state. They are the constructive workers who have built up breeds that are equal to any in the world and their views and their acts will command widespread attention.

It costs each member of this association \$100 each year in dues and yet they are glad to pay though they get simply a business investment for the nothing as an immediate return. It is general good of the live stock interests of this country. It will pay because the general improvement of the live stock of the country means prosperity to the individual associations.

These instances are cited as illustrative. There are many others, and all have for their object the betterment of agriculture. This is simply good business. Agriculture is the foundation of all business and its betterment, in any way, brings prosperity to all others.

In plant life is the origin of all wealth. From it we manufacture our homes, our clothes, our food, our money and even our newspapers. We feed it to our domestic animals who in turn manufacture it into other forms or human food or clothes or money with which to buy them. All life is dependent upon the plant and its death furnishes the pabulum of other plants to follow. Not only our welfare but life itself depends upon the plant. Man's efforts are put forth to conserve the good and destroy the noxious but all are necessary. These efforts we call agriculture. Do you wonder at its importance?

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BUTCHERING HOGS ON FARM

There is probably no other product on the farm on which the farmer can make an extra profit so easily as on his winter fattened hogs if only he will make the proper disposition of them.

Should we stop to consider the subject and try to count how many of our neighbors kill hogs enough to have any meat to sell, or even for home use, we would, no doubt, be a little surprised to learn that this class is very small. From my observation, I think that not more than five per cent of the farmers have any cured meat for sale. Again, should we visit our railway stations at almost any time of the year we would find that the merchants are shipping in enormous quantities of meat from the packing plants. Then stop for a moment and consider where this meat is coming from. These hogs are grown on our farms, shipped to the city, slaughtered, the meat cured and shipped back to the home of the hog, and, in many instances, perhaps, is consumed by the very farmer who raised the hog from which the meat was made.

He, therefore, paid a profit to the local shipper, twice to the railroad, and to the packer and the retail grocer. After all this he fails to get meat that could be compared to that which he could as easily produce on his own farm. Our city brother who never gets any "good old country ham" has, according to my opinion, never yet known the taste of good meat. We once entertained a representative of a well-known packing firm in our home and served him some "home-made" country ham. Upon tasting it, his first remark was, "I wish Mr. Blank could taste this ham. He thinks nobody can cure ham that will equal the product of his plant."

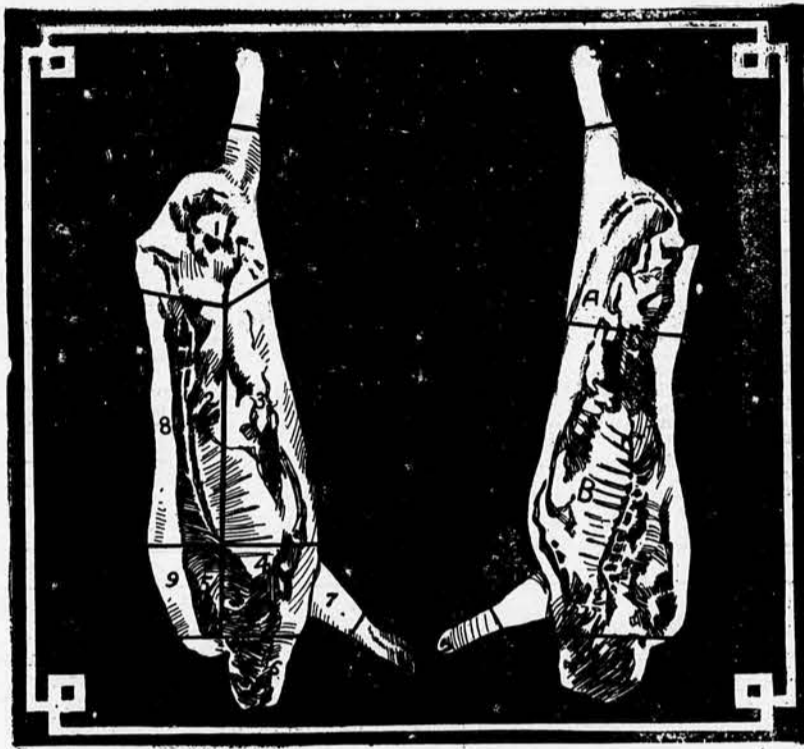
The first thing to be considered in killing hogs on the farm is the kind of hogs and the manner in which they are fed. Hogs should be well fattened but not made so fat as to be "only a great glob of lard." At the present day it is hardly necessary to tell a farmer that he should raise only a good breed and type of hog. The days of the razor back are in the past. The days of the heavy lard hogs are past, too. When lard oil was used extensively for lubricating the heavy lard hog was at its best, but at the present time the demand for this kind of lubricant is much less. People as a rule want "lean" meat. Therefore we should endeavor to get a hog that will furnish a good quality of bacon and hams, giving less consideration to the quantity of lard. A hog fed entirely on swill will not make satisfactory meat. Make it a rule to feed your hogs on a variety of feeds just as you do yourself.

In all cases it is best to kill in the forenoon. The number to be killed daily will, of course, depend upon the equipment at hand. Five men should be able to handle from six to ten hogs in one forenoon. Select the hogs you intend to kill, doing so the day before, and do not feed them the night before or on the morning they are to be killed. Get your hogs as near where you are going to scald them as you possibly can. Avoid all excitement among them, and do not select any gilts or sows the condition of which is such as to cause them to be restless. Leave them until this period has passed. In killing hogs I should in all cases use a small rifle. Have ready a hog hook, a sharp pointed butcher knife and plenty of gammon sticks. At the "crack" of the rifle the "sticker" should rush forward and before the hog begins to struggle turn it on its back and stick, being very careful not to stick the shoulder. Then let the hog lay there until it shows no signs of life. If moved too soon blood clots will be formed where it is bruised by dragging over stones or frozen ground. This may seriously damage the meat.

Many farmers have movable scalding tanks, which are excellent. The plan most commonly used, though, is the barrel method. Build a platform about 20 inches high and about 4 by 10 feet, on top. When possible, build this in front of a tree or solid post, having the platform some two feet to the front. Place the scalding barrel behind the platform so that the bottom will rest against the tree, the bar-

The Farmer Pays Five Profits to Others On His Own Meats

By A. W. ORR, Missouri Board of Agriculture.



PORK CUTS.

- A. English long cut ham. B. English long cut side.
 1. Ham. 2. Loin. 3. Belly. 4. Picnic butt. 5. Boston butt. 6. Jowl. 7. Hock. 8. Fat back. 9. Pates. 2. 8. Back. 2. 3. 8. Side. 4. 7. Picnic shoulder. 5. 9. Shoulder butt. 8. 9. Long back. 4. 5. 7. 9. Rough shoulder.

rel being at an angle of about 45 degrees and the mouth of the barrel resting near the back of the platform. It may be necessary to make a slight excavation and let the barrel into the ground. After it is in place weight it down well or anchor it with a rope or use any method that will make it as stationary as possible. A hog should be scalded hind end first, as the water is hotter when the operation is begun, and if it should be too hot a "set" on the hind parts would not be as serious as around the jaws and head where the work of cleaning is always hardest. Scalding should not be attempted when the water is too hot. A good temperature is from 185 to 195 degrees Fahrenheit, yet water at from 165 to 175 degrees will do. With the cooler water more time will be required, nor are the results always as satisfactory. As a thermometer will not always be handy, it is best to

learn to test the water with the finger, which, after a little practice, is a very simple matter. It is necessary to have the barrel free from grease. Heat the water in a large iron kettle or a vat. Fill the barrel about one-third full of water. In most cases it will be found a help to add some strong ashes to neutralize any trace of grease. The addition of hardwood ashes, soft soap or concentrated lye to the water will aid in removing the scurf. When the scalding is begun it should be finished and the hair removed as quickly as possible.

Another method often used is the sweep-pole. Cut off a small tree at the right height, or if no trees are at hand a post may be set good and solid, and over this a sweep-pole, such as is sometimes used over wells, is arranged. This pole may be fixed on a swivel joint so that it may be used to carry the hog from the scalding

table to the barrel which, in this case, may be set upright or close to the tank, and after the scalding is done it will carry the hog back. After the hog is scraped the pole also serves to carry it to where it is hung preparatory to being opened.

After the hog is hung on a pole or other device it should be washed down with hot water, followed by a further scraping with a knife, then rinsed off with clean cold water. This gives the skin a fresh clean look. Next is the opening process, and as this can only be learned by experience we will not attempt to explain it here. Suffice it to say that great care should be taken not to cut or rupture the intestines during this process. After the entrails are removed, wash the carcass thoroughly inside with fresh clean water and then leave to drain. If the butchering is done out of doors, as it usually is, it may be impossible to leave the meat hanging over night. In such case it should be removed to the smokehouse and either hung again or placed on the floor, but in no case should the meat be "cut up" before the next morning.

Cutting up the hog is that part of our work upon which a great deal of our success and profit depends. First remove the head, then lay carcass flat on back and with an axe or cleaver cut the ribs down each side of the backbone. In case of very fat or heavy hogs it may be necessary, before chopping, to cut along with a butcher knife. When cut in halves remove the tenderloin and ribs from each side. We are then ready to get out the meat we want to sell. In cutting the joints always bear in mind that a piece of meat that is inviting in appearance will sell best. Have a sharp knife and have a definite idea in mind as to what shape you are going to cut each piece of meat. Just here we would suggest that it would be well for you to go to your grocer and ask him to show you a packing house ham and shoulder. Study it well, noting especially the absence of any shank at the lower end or any flabby, ugly notches about the sides. Also note the clean-cut shape, it being rather pointed at the top in the ham, but not so pointed in the shoulder. When you have learned these types and made up your mind to follow them your success is in large measure assured. After the joints are removed cut off the feet, then cut the shanks well up at the large part of the joint. These shanks, if salted for a few days and then boiled and served as are back bones and ribs, make the best of "eating," but if left on the joint (a very common practice), they absorb so much salt and dry up so that they are not fit to eat, but are only a dead loss. They also spoil the looks of what might otherwise have been an inviting looking joint of meat. Above all things, strive to make a clean, smooth joint without notches or flabby places in which bugs might harbor. This is one reason why we would leave the hog twenty-four hours before cutting it up as it is impossible to do a neat job of cutting on a warm hog. Another reason for it is that the meat will be whiter and better if the animal heat is allowed to escape before rendering is begun. We have taken away the joints; we now have the middlings left. From this we would remove a strip from the top a little wider than the groove left by the removal of the tenderloin, and from the bottom we would take a narrow strip, just enough to remove any teats that may be there.

The most important point in the whole work is the salting. As the process of common dry salting is so well understood, we do not consider it worth while to dwell on it. Many farmers have never used any other method. Much very excellent meat is made in this manner; and, in our opinion, were the majority of it not left in the salt so long it would be much better.

We are going to lay more stress on the process commonly called "sugar curing." We think that any farmer who ever successfully uses the sugar method would never return to the dry salt method. For, we may say, 1,000 (Continued on page 6.)

Our Book and Periodical Department

FOR the benefit of readers of *Kansas Farmer* our subscription department has made extensive arrangements whereby we can furnish our readers with any book of interest to farmers, breeders, fruit growers, poultrymen, etc., at the lowest possible price.

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TOPEKA, KANSAS

The American Farmer A Meat Packer

Continued From Page One

more often than through high prices received for the products. A saving made on the farm is equivalent to the earning of the same amount of money and is frequently more easily done.

To show something of how much a saving may result, the following figures, showing what should be procured from a 250 pound hog, were given: 35 pounds of ham at 17 cents, \$5.95; 30 pounds of shoulder at 10 cents, \$3; 25 pounds of thick sides at 20 cents, \$5.00; 21 pounds of thin sides at 15 cents, \$3.15; 30 pounds of spare ribs, head, feet, back bone, at 18 cents, \$5.40; 18 pounds sausage at 20 cents, \$3.60; total, \$26.55.

At home in the feed lot this hog was worth \$18.10 at current prices. If the farmer cures his meat at home this allows him \$8.45 pay for the work of killing and curing each hog, besides the advantage he gains in the increased value of the food products of the hog. In other words, he markets his hog for about 33 1-3 per cent more money than he would if he sold it to the shipper and this is certainly a very fair profit. In addition to this it may happen that there are certain parts of the cured meat which he does not like so well as other parts, and these may be sold to his neighbors or in town at an advanced price. Most people will pay more money for some cured meat than they will for packing house products if they know their true value. It would be a comparatively small matter for the farmer who has equipped himself for the curing of his own meat to butcher each year a few additional head of hogs for sale. Numerous figures can be given to show that this is a profitable operation and the only thing which seems to stand in the way of it is the lack of skill and knowledge of how to do it on the part of the younger generation of farmers. The weights given in the example quoted are for green meat, but as the joints will increase in salt and decrease in the smoke, the average will be practically the same by the middle of summer.

Curing pork in this manner will solve the meat question for the year

in the farmer's family provided he does not care for variety and will be satisfied with pork as his daily meat ration. Few people enjoy a monotonous bill of fare for long periods and this may be varied by the products of

the poultry yard or by the occasional killing of a beef. Comparatively few farms are large enough to take care of a fresh carcass of beef in the hot weather unless they have plenty of ice and a refrigeration equipment.

With a beef club, however, the matter is entirely different. A number of neighbors can club together and do the work of killing and distributing a beef animal during the warmer months when fresh beef is so much enjoyed and all will receive the benefits from it.

American Royal Elects Officers.

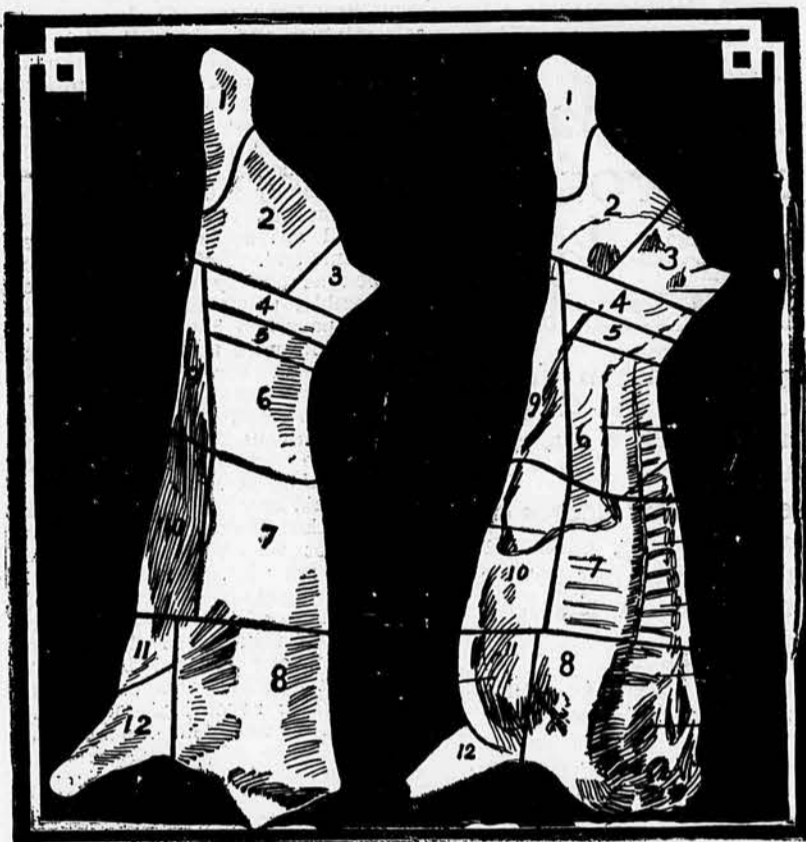
At the annual stockholders meeting of the American Royal the following officers were elected: President, Paul M. Culver, Edgerton, Mo.; vice president Eugene Rust, Kansas City; secretary and general manager, Allen M. Thompson, Nashua, Mo.; treasurer, H. C. Duncan, Osborn, Mo. The board of directors were reelected.

Standard Poland China Association.

The annual meeting of the Standard Poland China Record Association was again held at South St. Joseph, Mo. The usual institute features were omitted and the banquet dispensed with but there was no lack of interest. The officers elected were as follows:

President, H. C. Dawson of Endicott, Neb.; vice presidents: Jas. G. Johnson, Arizona; L. B. Gant Arkansas; G. W. Stoval, California; R. E. Blatt, Colorado; J. M. Royston, Idaho; Diana, R. L. McClarnon, Iowa; H. B. Walter, Kansas; J. V. Hendley, Missouri; J. N. Hitch, Nebraska; W. L. Garrlott, Kentucky; Walter E. Robertson, Minnesota; C. R. Allen, Mississippi; A. B. Dille, New Mexico; H. H. Wing, New York; Wm. L. Davis, Ohio; Lee R. Patterson, Oklahoma; P. W. Peterson, South Dakota; W. J. Duffel, Texas; Carl C. Williams, Washington; T. B. Gill, Wyoming.

The new board of directors consists of J. B. Potter of Iowa; J. R. Roberts of Oklahoma; W. O. Garrett of Missouri; R. E. Maupin of Missouri; Sam R. McKelvie of Nebraska; and J. O. James of Iowa.



BEEF CUTS.

1. 2. 3. Round. 4. 5. 6. Loin. 7. Rib. 8. Chuck. 9. Flank. 10. 11. Plate. 12. Shank. 1. 2. 3. 4. 5. 6. 9. Hind quarter. 7. 8. 10. 11. 12. Fore quarter. 7. 8. Back. 7. 10. Piece. 8. 11. 12. Kosher chuck. 8. 10. 11. 12. Triangle.

Do not attempt cement work in the winter unless you can have about three days for the cement to "set."



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1 bottle Standard Pine Tar Extract.....	.50
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1 one-quart can Standard Fly Shy.....	.35
1 one-half gallon can Standard Lice Killer.....	.65
1 box Standard Insect Powder.....	.25
1 5 1/2 lb. box Standard Poultry Food.....	.50
1 4-lb. box Standard Hog Worm Powder.....	1.00
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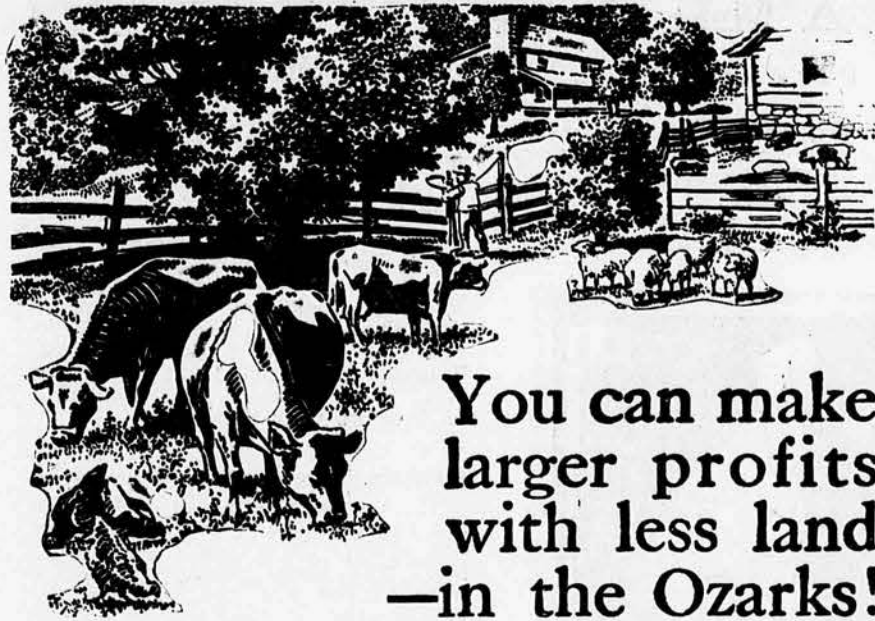
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You can make
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This has been proven, over and over again, by farmers from the big grain states, who have gone down to the Ozarks and taken advantage of the cheap land and the special opportunities there for intensive farming.

If you have been scattering your energies over scores of high priced acres, in grain or "general" farming, you are working harder, spending more and making less net profit than you would if you bunched your efforts on the low cost land that lies in the Ozarks.

The Ozarks are admirably adapted, both by location and the land, for the kind of intensive farming that, sooner or later, every farmer will come to. You could conduct a grain or general farm there and make good money (corns yields regularly from 60 to 100 bu., in the bottom lands), but you can make much more in other ways.

The Ozarks, for instance, are perfectly adapted for dairy and stock farming. An expert of the Missouri Agricultural College says that "the Ozark country is one of the finest natural dairy sections in America" and the experience of the dairy farmers now there, bears out his statement. E. T. Shelman, of Greene County, sold, in a year, from 12 cows, \$1,232 worth of cream and butter. He estimates that, counting returns from skimmed milk and calves, his total profit amounts to \$150, per annum, from each cow. The explanation is simple. Land is very cheap there—\$10 to \$25 per acre—all kinds of forage crops grow abundantly; there is plenty of clear pure water, the very mild climate promotes a greater yield of milk, per annum; almost right at your door are the big markets of St. Louis, Kansas City and Memphis, which pay the highest prices for dairy products.

The manager of a big St. Louis dairy said, the other day—"If I could get good, reliable, dairy farmers in the Ozarks, I would contract to take every drop of milk they could deliver me at their local market, and pay them top notch prices. It is a constant scrimmage for me to supply my customers from the Illinois side."

Again, in sheep raising—here's just an average case: In February, an Ozark farmer bought 32 sheep for \$160. In May he sold 165 lbs. wool for \$41.25 and in Sept. 35 lambs for \$140; a total income of \$181.25 in seven months. He still had his original herd and ten good lambs beside. The only attention he gave them was at lambing time. Here, again, the mild climate is a big advantage, as there is practically no loss from freezing. No trough feed was supplied—they simply ate the wild grasses which grow so profusely there, the year round.

Then there are fruits, truck, poultry and pigs—any one line of which can be made extremely profitable in the Ozarks. The highest prices are paid for these products, in the big city markets. Truck can, and is being made to pay from \$100 to \$300, net, per acre.



It isn't necessary to make a specialty of any one of these branches of farming—it is the combination of them that works out so well in the Ozarks. And bear in mind, that these profits can be made from land that now sells at \$10 to \$25 per acre. A fully equipped farm in the Ozarks will cost you less than an unimproved one elsewhere.

I feel so sure that a smaller investment in the Ozarks will yield you a greater net profit, with less work, than you can get where you now are, that I want you to read our splendid, illustrated free books of common-sense facts. The Frisco hasn't an acre to sell, but is interested in letting farmers know what splendid advantages the Ozark country offers. I am sure you will find the facts I can give you more than worth while. Please write today.



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Butchering Hogs on The Farm

Continued From Page Four

pounds of dressed meat mix one-half bushel of salt, 8 to 10 pounds of dark brown sugar, 1½ pounds of ground black pepper, then stir the mixture together thoroughly. Take about one-half pound of saltpeter and dissolve in as little water as will dissolve it. Pour the solution over the salt mixture and mix well. Spread a thin layer of dry salt over the bottom of the "meat box," then lay a board across the top of the box to place meat on so that any waste material will fall into the box. Now place a piece of meat on this board and thoroughly rub the mixture over it and into it, taking great care to cover all cut surface and especially the shank end. Build the pieces into the box as closely and as compactly as possible, using dry salt to fill all vacant space and holes. We prefer to put the joints in the bottom and the middlings on top. Use plenty of salt. If the weather is not too cold so that the meat is frozen, it should lay in salt about two weeks.

After the meat has taken salt for a sufficient time it should be taken up and the salt brushed off. Place a kettle near the smokehouse and have it full of hot water. Have some wire stretched near by, and see that meat hooks are ready. These meat hooks may be made of No. 7 or 9 galvanized wire, and if taken care of, will serve more than one season, but if very rusty throw them away, as wire is cheap. Place several pieces of meat in a washtub and pour the hot water over it. Rinse off the salt and hang on the wire to drip. Proceed with this operation until all the meat has been washed, and by that time the first pieces will be ready for the next process. Get baking powder can and punch the lid full of holes, making a big "pepper box" out of it. Punch the holes from the inside of the lid, leaving it smooth on inside and rough out. Fill the can with powdered borax and shake this over the meat. Then hang it in the smokehouse ready to be smoked. The borax should be put on before the meat is dry so that it will adhere to it. The top of your smoke house should be strung with a lot of wires laid over the joists. The wire hooks before mentioned should then be hung over this wire. This hook method has a great advantage over the old string method in that it takes a much less hole in the meat to insert the wire than the string and this damages less meat and makes but little place for vermin.

There are two kinds of bacon, thick and thin. Fortunately there are also two kinds of bacon eaters. One class prefers it thick and fat; the other thin and streaked, the more lean the better. Nature has so built the hog that it can cater to both classes. The way to accomplish this is simply to

take your knife and split the side the long way of the hog, leaving the upper, or thick, side separate from the lower, or thin, part. There are more reasons than one for doing this. The thick bacon can be used or sold in the early part of the season and the thin held until summer time when it will be more in demand and more palatable. Again, when the "guide wife" goes into the smokehouse where there are a lot of big sides of bacon she just cuts one corner out, leaving two raw edges which will have to be cut off the next time. With strips of three to five pounds each she can take a whole strip to the kitchen and thus save some steps, as well as bacon.

After all is hung we are ready for smoke. Place an old stove or open kettle in the smokehouse and keep a fire of green hickory or sassafras or both together for several days. The exact time would depend upon how closely built the house was and thus how well the smoke was confined. The only sure way to test it is to try some of the meat. If the meat is to be kept until late summer it should be canvased during dry weather and dipped in a preparation of ocher or whitewash and kept in a cool dark place.

Probably the best way to market the tenderloin is just as it is taken from the hog. But if that is not found satisfactory it can be used in the sausage. To make good sausage it should be well ground and the grinding should be done before the seasoning is added. It is probably less trouble to add the seasoning first, but you can never make as good sausage by that process. The ribs and back bones can be sold or used at home. The head should be skinned, and the jaws ground into the sausage while the skin is placed in the lard.

To make good lard, cut into small pieces and cook over a slow fire. When about done add a teaspoonful of soda to a 20-gallon kettle of lard. The lard should not be too hot when the soda is added, as it may cause it to boil over. The tongue and heart are very fine to boil and serve cold, either with or without vinegar; or they may be used in mince meat or scrapple (or "paunhause"). The heads should be cut up, the eyes taken out and the ears removed, then place heart, livers, heads, tongues and other scrap, if any, in a large iron kettle out in the yard and boil until well done. It will be found profitable to make mince meat or other by-products out of the scraps. It will be "up to" the farmer to create a market for some by-product to be made from these odds and ends, then make what his market calls for.

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Warm water for the cows is a necessity to continuous and even milk flow. The water should not be too warm but the chill should be taken off so that the cow will drink her fill. No cow can produce large quantities of milk without plenty of drinking water and no cow will drink a plenty of ice water.

A good thermometer costs more than a poor one but it is worth much more. Every cow stable should have a good thermometer hanging in it and this should be inspected often enough to see that the temperature does not run below 42 degrees nor above 55 or 60. The idea is not so much to avoid these extremes as to maintain an even temperature. Keep the cows in comfort and they will do the rest.

Formerly men folks used to think that dairying, like poultry raising, was women's work and rather beneath their dignity. Perhaps they were right but they have learned, at least, that there is money in it and that it has, thus far, rewarded their very best efforts. Serious attention to the possibilities of the dairy cow has given full scope to the best abilities of the best men, and the dairy business is still in its infancy. Men have now learned that, instead of being beneath their dignity, it grows with their growth and yet its possibilities seem limitless.

I do not believe that any dairy farm is completely equipped which does not have a suitable number of pigs and a manure spreader as parts of its machinery. Both are money makers and the pigs will pay more for the skim-milk than it can be sold for elsewhere, while the land will take all the manure at better prices than will any other customer. Pigs are mighty good machines and they work while you sleep. But they are good buyers of skim-milk as well and it always pays to be courteous to a good customer.

T. L. Haecker, professor of dairy husbandry and animal nutrition in the Minnesota College of Agriculture, declares that milk of the standard now required in this state is too rich for the stomachs of children. Professor Haecker has arrived at this conclusion as the result of a series of observations, on both children and young animals, covering a long period. He found, first, that children thrive better on milk containing but a comparatively small amount of butter-fat than upon the "richer" milk of the pure bred dairy cows.

It would appear that the surpassing richness of the milk of certain breeds of cattle is the result of a gradual, long-continued departure from natural conditions, under which the milk, while less valuable for butter making, was on the whole better adapted to the use of growing children; and that a return to these conditions might therefore contribute something to the cause of health and the reduction of infant mortality. It is suggested, also, that if the attention now given to securing "three-and-a-half per cent butter-fat," in all milk sold to the public, should be diverted to securing greater purity, through scrupulous cleanliness in all the operations of the dairy, the gain to the children would be further perceptible.

Ensilage.

Ensilage is one of the cheapest succulent feeds that can be supplied to farm animals during the winter. That is, when one has a large herd and is able to build the silo and buy the necessary machinery for handling the crop. It is good feed, handy to deal out and very much relished by all classes of stock.

Roots.

One of the most practical ways of supplying succulent feed for cows, when one has only a small herd and does not have ensilage, is by raising roots; as mangels, rutabagas or stock carrots. For a small herd, roots are cheaper than ensilage, because expensive machinery or expensive storage room is not required. One acre of roots planted on rich, well prepared land, well taken care of, will provide sufficient succulent feed for six or eight cows.

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HERE IS THE STANDARD BY WHICH THE EFFICIENCY OF A CREAM SEPARATOR SHOULD BE TESTED: It Should Skim Cool Milk.

It's much harder to skim milk at 65 to 70 degrees than milk at 85 or 90. Some machines that will do fair work with milk at 90 degrees will get all clogged up with milk at 70. Remember that lots of times in the winter your milk will be nearer 65 than 85.

It should produce heavy or thin cream as desired.

Whether you are churning your own cream, selling it to a local creamery, or shipping it to some distant point, it is desirable to produce a very thick cream. Thick cream churns easier, is less liable to spoil, and has less bulk. It pays to make thick cream, but to do this the machine must be mechanically perfect. A poorly or cheaply constructed separator cannot be adjusted to secure the desired results.

It should separate its full rated capacity.

All cream separators are rated upon the basis of their capacity for one hour. The DE LAVAL is the only machine made that will, under all conditions, separate its rated capacity for one full hour, and at the same time skim clean and produce cream of uniform quality.

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Spring Seeding of Alfalfa.

I have a tract of land of about four acres of very rich black soil which I should like to sow to alfalfa this spring. On account of the land being so rich I should like to use some kind of a nurse crop to keep down the weeds. Would oats make a good nurse crop? How much alfalfa seed to the acre? This piece of ground was in corn last year. Can I sow alfalfa as early as we sow oats, or when would be the best time to sow both? We have no alfalfa in this county to speak of. Any information that would help me to get a right start toward alfalfa will be appreciated.—J. C. Overin, Cherokee county, Kan.

There is no land too rich for alfalfa. The best alfalfa is grown on the best soil and good practice is to manure alfalfa land before it is broken up for corn.

In the eastern part of Kansas there seems to be an irregular invisible line of division between alfalfa and red clover. It is generally believed that in some parts of eastern Kansas alfalfa will not succeed though red clover does well. Just why this is so or whether it is so at all has not been satisfactorily proved. It is believed that alfalfa will grow on almost any Kansas soil which has a suitable subsoil for the long roots to penetrate.

The Shawnee Alfalfa Club, which has studied alfalfa exclusively for nearly four years in its monthly meetings and which has a membership of nearly 300 alfalfa growers, is practically unanimous in their belief that alfalfa does not pay to sow alfalfa in the spring in eastern Kansas. As alfalfa is a delicate plant when first started, and as the crab grass is almost sure to get it if sown in the spring, this practice has been practically abandoned in this locality. Besides this, alfalfa has been found in long years of experience that alfalfa sown just before the middle of August will make such a vigorous growth that it will more than make up for any time that might be thought lost by not sowing in the spring. Our earnest advice would be to put the land in some nurse crop after deep and thorough plowing and then plow and harrow the ground thoroughly until a fine seed bed is formed before sowing in the middle of August. The way to get a good stand of alfalfa is to begin on the ground a year before sowing. Use one pound of first class seed to the acre and do not sow a nurse crop. Everything depends upon the condition of the soil. Drill the seed in. This is sometimes done by dividing the seed and cross drilling but if the soil is in good tilth this will not be necessary.

So long as Kansas farmers continue to sow alfalfa in the spring they will only a partial success as the hot days of summer greatly weakened the plant and did not hurt the crab grass, which soon smothers it out. Again, when alfalfa is sown in spring a nurse crop the first cutting will freely remove the nurse crop and allow the hot sun to beat down upon unprotected crowns, insuring injury or death of the young plants.

If it is determined to sow alfalfa in the spring the same kind of soil preparation and the same amount of seed necessary. The nurse crop can be sown at any suitable time and the amount of seed used as for an ordinary crop. Oats is perhaps as good as anything. Spring sowing is to be avoided as it too often brings disappointment.

The farmers of Kansas, and of the entire part of the corn belt for that matter, are making at least two mistakes. They are selling corn instead of feeding it and they are missing golden opportunities by not keeping their cows. These things mean a change in present methods. They sow more land seeded to grass, a variety of crops, the building of silos for more alfalfa. They mean the saving of money instead of losing it merely "breaking even" each year; the farming of the land instead of putting it to rest; a reduction of the cost of production instead of a longing for higher prices, and a rich, well tilled soil to turn over to the boys instead of the worn out thing which barely holds through his own active days. Wonder some boys want to leave the farm when they see what is going on of them under present methods.

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We are now selling tractors at the rate of 1,200 a



year. This in itself shows the wonderful success of a one-man tractor made for average-sized farms. Such a record is even more wonderful when you consider that the UNIVERSAL Tractor has never been widely advertised until recently. One farmer buys a "UNIVERSAL," likes it and tells his neighbors, and so its fame spreads.

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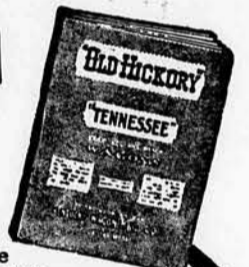
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LIVE STOCK



Feeds for Fattening Lambs.

BY PROF. W. J. KENNEDY, IOWA AGRICULTURAL COLLEGE.

The finishing and fattening of lambs for market is a profitable phase of stock farming. It is a line of work that is steadily growing in favor. Our American people are demanding more and more the tender, juicy, high flavored meat of a properly fattened lamb. As a result of this demand the prices for fat lambs run high as compared with mature sheep and other classes of farm animals. There are various methods for fattening lambs ready for the market. The date of birth is an important factor. The February or March lamb should be forced right along and marketed during the early summer months. Such lambs are out of the way before the stomach worm and other internal parasites give much trouble. This method also makes it possible to buy in a bunch of western lambs and finish them during the months of September, October or November. Lambs dropped during the latter part of April and the month of May must be finished during the fall or early winter months. These lambs require little or no care at lambing time, a point worthy of consideration on many farms. On the other hand they must not be allowed to run continuously on a permanent sheep pasture during the warm months else the internal parasites will be sure to cause serious trouble. A change of pasture, or better still a series of forage crops should be supplied to tide these youngsters through the summer months. Where lambs are fattened during the early fall months on grass or forage crops some form of a grain ration should be fed. The majority of experiments indicate that a ration of corn 2 parts and wheat bran 1 part furnishes a good supplement to the green food. The grain ration should be fed in a flat bottom trough so that all may have an equal chance to feed. From 1 to 1½ pounds of the grain is considered heavy feeding for lambs on grass or forage crops.

single grain for fattening lambs, is especially desirable because it causes the lambs to put on fat rapidly and does not stimulate too much growth as is the case with many forms of concentrated feeds. Barley has also been used to very good advantage. It is about on a par with corn from the standpoint of rapidity and economy of gains but lacks in palatability. Wheat and wheat screenings have both been used for fattening lambs. This feed has much tendency to cause the lambs to grow rather than fatten. When combined with an equal amount of the lambs put on fat much more readily. Oats are a useful feed but wheat are more conducive to growth than fattening, thus should be mixed with corn for best results. Oil seed cottonseed meal and gluten feed have all been used in conjunction with corn rations to good advantage. More than ½ pound of either oil seed or cottonseed meal should be fed a lamb weighing from 30 to 40 pounds. While wheat bran in itself is not conducive to putting on fat is one of the best feeding stuffs available to use in conjunction with other feeds in getting lambs full feed. It furnishes bulk thus vents the greedy ones from getting too much concentrates and also acts as a regulator of the digestive system.

SUCCULENT FEED.

It is always best, if possible, to furnish some form of succulent feed. This may be done through the use of either roots or corn silage. The succulent feed seems to tone the system and regulate the digestive organs. The British flock-master used for this purpose. In some cases bage is used. The British shepherd insists that sheep cannot be successfully fattened without roots or bage. Experiments at the leading stations in this country indicate that corn silage is fully as useful as any other feed for fattening lambs. The low cost producing silage should lead to more general use.

GETTING LAMBS ON FEED.

A great deal of time and feed is often lost through carelessness on part of the feeder in getting his lambs on feed. It is said that nowhere is the skill of the attendant shown more plainly than in getting lambs on a full grain allowance without getting a single "off feed." The amount fed at first should be small. Lambs that have not been accustomed to grain should not receive more than one-tenth pound of grain per day at the start. This should be increased at the rate of one-tenth pound per day until the full allowance has been reached. Some wheat bran fed to the regular grain ration prove very helpful during the first days of the feeding period. The troughs should always be kept clean.


AMOUNT OF FEED AND RATE OF GAIN.

The amount of feed fed will vary in accordance with the kind of roughage and also as to whether or not succulent feed is used. As a general rule lambs weighing from 60 to 90 pounds each will eat from one-tenth to 2 pounds of grain and seven-tenths to 2 pounds of hay per day. Where silage or roots are used the amount of hay will be somewhat less but the total dry matter consumed what more due to the increased palatability of the ration. Lambs of above weights will gain from .50 pound each per day. From .4 pound per day should be considered as very satisfactory gains.

- The following rations have given good results for lambs on full feed weighing from 60 to 90 pounds.
- Ration 1—Alfalfa hay 1.5 pounds, corn meal 1.6 pounds, daily gain .50 pound.
 - Ration 2—Cow-pea hay 1.5 pounds, corn meal 1.6 pounds, daily gain .50 pound.
 - Ration 3—Corn stover 8 pounds, alfalfa hay .7 pound, corn meal .5 pound, daily gain .50 pound.

GRAIN RATINGS.

All of the various farm grains have been used with more or less success. Corn easily heads the list as the best



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pounds, and cottonseed meal .4, daily gain, .34 pound.

Ration 4—Alfalfa hay 1.7 pounds, shelled corn 1.4 pounds, daily gain .32 pound.

Ration 5—Alfalfa hay 1.4 pounds, wet beet pulp 3.3 pounds, and wheat screenings and bran .5 pound, daily gain .33 pound.

Ration 6—Alfalfa hay 1.6 pounds, corn silage 1.4 pounds, and a mixture of corn, oats and bran 2 pounds, daily gain .42 pound.

Ration 7—Alfalfa hay 1.6 pounds, mangles 4.3 pounds, and corn, oats and bran 2 pounds, daily gain .44 pound.

Ration 8—Clover hay 1.5 pounds, corn .7 pound, oil meal 2 pound, and bran .4 pound, daily gain .33 pound.

Ration 9—Clover hay 1.3 pounds, dried beet pulp .9 pound, and oil meal .3 pound, daily gain .33 pound.

Ration 10—Mixed hay 1 pound, cabbage 2 pounds, and cooked corn and oats 1.7 pounds, daily gain .36 pound.

Insure Your Crop.

We all see the wisdom of placing insurance on threshed grain. But why not insure the crop by using a good grain drill? It is good farming to prepare the seed bed carefully, clean and grade the seed and sow it at the proper time and in the proper manner. The man who broadcasts his grain is not a good farmer in the strict sense of the word. He is passing up an opportunity to produce big crops. Every experiment stations and all farmers who have kept records and compared the yields from year to year have given ample testimony that the grain drill is a paying investment—that it saves seed, increases the yield and makes the crop grade higher. The disk drill saves seed; it plants the seed in a properly made seed bed at an even depth, and consequently the seed comes up evenly at the same time, ripens evenly and therefore grades alike; the stand of clover is much better, because clover needs air, sunshine and moisture. When broadcasted with the oats the little clover plants are so shaded that they are deprived to a great extent of sunshine and air. Farmers should quit broadcasting, because that method invites failure. Our seeding conditions are difficult. It isn't every grain drill that will do the work as it should be done. The Kentucky Disk Drill, manufactured and fully guaranteed by The American Seeding-Machine Co., Incorporated, Richmond, Ind., will do this difficult work and do it right. It has great clearance for stalks and trash. In fact the Kentucky Disk Drill will do good work wherever it is possible to use a disk harrow. Go to your local dealer and ask to see the Kentucky Disk Drill. But be sure and send for the Kentucky catalogue. The Kentucky is made in many styles and sizes, and the manufacturers declare they have drills suitable for the seeding conditions in every part of the grain growing world.

Admitting that a mule will sell for more than a horse; that there is always a market for mules; that blemishes do not hurt their selling price, and that no one ever saw a dead mule, there is still open the question: "Why do not farmers raise more mules?" The government, the large contractors, mine owners and cotton farmers are always in the market for mules and their value does not fluctuate as with other classes of stock. A mule is good property but is good for only his generation and for this reason and in spite of his high price as compared with the average horse, the farmers prefer to raise horses. This is the age of the draft horse and a team of draft mares will pay their way in work and produce a colt each year which may be kept as future breeders. The added value of the mule is not enough to pay the average farmer for his lack of reproductive ability.

What a difference the price makes! For instance, the crop reporting board of the Department of Agriculture shows a much larger production of farm crops in 1910 than in 1909 and yet the value is much less. The total value of the farm crops in 1909 was \$3,971,426,000, while the value in 1910 was \$3,735,464,000, or a loss of nearly 236 million dollars. However, the margin between what the farmer receives and what the consumer pays does not seem to narrow any.

Cut Your Tire Bills In Two

These two Goodyear features jumped our tire sales last year to \$8,500,000. They trebled our sales in one year. This year they will save millions of dollars to owners of motor cars.

Tires 10% Oversize

Goodyear tires are made 10% larger than the rated size. That means 10% more tire at no extra cost. It means 10% more carrying capacity. That extra size, with the average car, adds 25% to the tire mileage.

The reason is this:

Motor car makers, in these days of close prices, can hardly afford to give generous tires. The tire size is sufficient for the car as they sell it, but not for the extras you add. A top, glass front, gas tank, gas lamps, an extra tire, etc., add a great deal to the weight of a car. So does an extra passenger. So do extra heavy people.

Nine times in ten the expected weight is exceeded. A few hundred pounds of extra weight cuts down the tire mileage half. That is what causes blow-outs when tires are nearly new.

So we add 10% to the size of the tire without any extra cost. That takes care of much added weight. That extra size will save the average motorist at least 25% of his tire cost.

Rim-Cutting Impossible

Goodyear No-Rim-Cut tires get rid of this trouble entirely.

To run an ordinary tire flat—even a few hundred feet—may wreck it beyond repair. But No-Rim-Cut tires have been run deflated, in a hundred tests, as far as 20 miles. Among the half million No-Rim-Cut

tires we have sold there has never been one instance of rim-cutting.

Note how to avoid it.



The 63 Braided Wires

Here is a Goodyear No-Rim-Cut tire fitted in a standard rim. This is the rim now used almost universally for quick-detachable tires. But Goodyear tires fit other rims just as well.

Note that the rim flanges—which are removable—are placed to hook outward with No-Rim-Cut tires. The tire comes against the rounded edge, making rim-cutting impossible under any condition.



Here is an ordinary tire—a clincher tire—fitted in a similar rim. The rim flanges here must be placed to hook inward—to grasp hold of the hook in the tire base. That is what holds the tire on.

When the tire is deflated, as in the picture, it comes against the sharp edge of the flange. That is what causes rim-cutting. A punctured tire is often wrecked in a moment.

Hookless Tires

Goodyear No-Rim-Cut tires have no hooks on the base. They don't need to be hooked to the rim. The reason lies in 63 braided wires vulcanized into the tire base. That makes the base unstretchable. Nothing can force the tire off the rim until you remove the flange. It is so secure that tire bolts are not needed.

When the tire is inflated these braided wires contract. The tire is then held to the rim by a pressure of 134 pounds to the inch. That is why hooks are unnecessary. That is why you can turn the rim flange so it can't cut the tire.

We control these braided wires, and there is no other practical way to accomplish the purpose. There is no other way to make a hookless tire safe.

Last year Goodyear No-Rim-Cut tires cost 20% more than other standard tires. Yet our tire sales trebled. This year, because of multiplied production, they cost no extra price.

You can get these oversize tires, these No-Rim-Cut tires, by simply insisting on them. And that means a saving of half on one's tire bills under the usual conditions.

Our new Tire Book tells a myriad facts which motor car owners should know. It is full of money-saving facts. Send us your address—now before you forget it—and let us mail it to you.



THE GOODYEAR TIRE & RUBBER COMPANY, 42nd St. Akron, Ohio
Branches in All the Principal Cities We Make All Sorts of Rubber Tires (124)

Jumbo Combination Wire Stretcher and Hoist
Two Perfect Tools in One
Handiest device on the farm. You'll need it every day. Best wire stretcher ever made. Light and easy to handle. For hoisting boxes, barrels, machinery, baled hay, lifting wagon box on or off gear, for butchering, etc., it's the very tool every farmer needs.
The Heavier the Load, the Tighter the Grip
Locks automatically. Holds load safely at any point. Our patent lock shoe and dog makes slipping impossible. Works perfectly regardless of condition of rope. Good for years and years of hard wear. Fully guaranteed. Price, \$2.00 at dealers, or from us express prepaid.
We also make Hoists, 400 lbs. to 5 tons capacity. Write at once for our Free Trial Offer
HALL MFG. CO.
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STRONG CHEAP DURABLE CYCLONE FARM GATES
May be raised above snow drifts or to allow small stock to run through and keep back larger stock. Frames are made of high-carbon steel tubing, the fabric of large heavily galvanized wires, and the fittings of malleable iron and wrought steel.
Cyclone Gates cost no more, generally less, than poorly made gates. We sell plain farm gates, single drive gates, double-drive gates, lawn and cemetery gates, gates easily raised and lowered, and automatic gates. Every buyer a pleased customer. Cyclone Ornamental Fence with its quality, durability, and beauty, makes an investment you will never regret. Our catalog awaits your postal.
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Written by 200 of the most successful Feeders, Farmers and Dairy-men in the World. Every farmer in America should read this book, and as long as our supply of these books lasts we will mail one copy free to each person asking for it. It gives the actual experience of these farmers and in their own words.
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Most perfect and valuable combination of tools ever invented. Sells at sight to Farmers, Plumber, Machinists, Automobile Owners, in stores and the home.
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\$10.00 Sweep Feed Grinder \$14.00 Gritmill
We manufacture all sizes and styles. It will pay you to investigate. Write for catalog and price list.
GURRIE WIND MILL CO., Seventh St., Topeka, Kansas

HOME CIRCLE

Wesley's Rule.

Do all the good you can,
In all the means you can,
In all the ways you can,
In all the places you can,
In all the times you can,
In all the people you can,
As long as ever you can.

Never throw water on the burning lamp as it has been upset and the overflows. Instead throw on flour, sand, or ashes, and put it first on the foremost flames and then work to where the flames started.

The Really Truys of Heaven.

Eight year old William and his little Will are great chums, and the father takes delight in the quaint sayings of his namesake. He rained on the day that William had gone to a wonderful picnic. The little lad stood at the window trying to keep back the tears. He Will, coming by, and seeing the father, slapped his nephew on the back and unexpectedly shouted: "Hello, Bill! What's your idea of heaven?" The small boy looked up and solemnly answered: "Heaven's the place where the really-truys are as the just-supposin's."—Alice Merton in Woman's Home Companion.

behind me at my Dryden and Pope, my Romances, and my Boccaccio; then on my left side at my Chaucer, who lay on my writing desk; and thought how natural it was in Charles Lamb to give a kiss to an old folio, as I once saw him do to Chapman's Homer."

8546. A Neat Work Apron.

A large work apron that comes well over the waist is indispensable to the busy housewife. This one of white linen, is not only a protection to the dress, but is neat and attractive as well. The waist is in jumper effect and broadens out over the shoulders in a most becoming way. The skirt is cut circular fitted in at the waist.



8546

Dear Old Friends.

Sitting last winter among my old books," said Leigh Hunt, in 1822, "I walled around with all the comfort and protection which they and fireside could afford me—to wit, a pile of high-piled books at my writing desk on one side of some shelves on the other, and feeling of the warm fire; at my feet I began to consider how I loved the authors of those books; how I loved them, too, not only for the creative pleasures they afforded but for their making me love the books themselves, and delight in contact with them. I looked through ways at my Spencer, my Theocritus and my Arabian Nights; then I looked at my Italian Poets; then

by darts. Gingham, percale and lawn are all used for the making. The pattern is cut in 3 sizes, small, medium and large. The medium size requires $4\frac{1}{2}$ yards of 32 inch material. A pattern of this illustration will be mailed to any address upon receipt of 10 cents in stamps or silver.

Which One Will You Test on Your Farm for Ninety Days? Freight Prepaid

Which will you try, 30 Days' Free or 90 Days' Approval Test?
—Any capacity from 200 to 950 pounds per hour, according to your needs, and I'll save you from \$25.00 to \$50.00 on the price.
—The only Separator whose gears runs in a "Bath of Oil" like a \$5,000 automobile—Feature worth \$50.00 alone.
—Automatically oils itself—Pour oil at the top, once a month from your oil jug or can—No danger of running dry, or ruining it like others—No oil cups to remember to fill or turn up twice a day.
—Dust-proof—Danger-proof—All gears enclosed—simple standard built and absolutely dependable.



Only \$29.75 and Up

I'll Save You \$25 to \$50

GALLOWAY'S "Bath in Oil" HIGH GRADE STANDARD OIL SEPARATORS

—Has the only revolving supply tank—worth \$15.00 alone.
—Easiest to clean and the gears come out easy and can't get back out of place.
—Easiest to run—high crank—low tank. With no high lifting and no "back-breaking" cranking.
—Gets the finest quality cream and all of it—no lump or churning, as Nature's true principle is followed without forcing either the milk or cream the wrong way up or down.
—Skims closest in any climate or season, no matter whether your milk is warm or cold.
—Is as handsome a machine, compact and substantial, as you ever saw or could find. Beautiful finish.

—Let me send you my Big New Separator Book—post paid—Free, so you and your wife and the boys and girls can talk it over and then try one of my separators under my easy plan for you to do it. You'll call it the best if you test it alongside any of the highest priced \$85.00 and \$110.00 separators sold by anybody today—makers—catalog houses—dealers—jobbers or anybody else. Write me today.
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THE QUEEN CITY TAILOR SYSTEM is absolutely the most beautiful and perfect system of cutting in the world. Garments cut by this system are noted for distinctive style, surpassing all others in comfort, grace and beauty of lines.
Under our system of individual instruction, the course is completed in from two to six weeks and
POSITIONS ARE ASSURED
our graduates, for besides the steady demand for good dressmakers we are constantly opening up new schools in which we need managers and teachers who are paid the best salaries.
A SPECIAL OFFER
Will be made to all students enrolling by March 1. Write now for our catalog.
THE QUEEN CITY COLLEGE OF DRESSMAKING AND TAILORING
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First Again To Push a Good One—This Time It Is Certified Seed Corn

I was first to advertise and push seed corn in the ear, graded seed corn and hand-picked seed corn. But here's the biggest and best idea of all—Certified Seed Corn—every kernel of every ear full of life, vigor and producing power.

Bigger Corn Profits
I started with the best field-selected corn in every variety. Picked the best ears, tested six kernels from each ear for germination and if even one of the six kernels from any ear failed to germinate strongly, that ear was discarded. I'll send this 100 per cent seed corn on

10 Days' Approval
You're the judge; money back if you say so. Shipped in the ear or shelled and graded—but either way, with the guarantee that six kernels from every ear has germinated strongly by my perfect testing system. Don't wait—

Write Me a Postal Quick
Plenty of Field's Certified 100 per cent Seed Corn next year, but don't wait. Get the extra \$5.00 to \$10.00 or more per acre on the coming crop. Write me a postal now for the facts, and ask for samples if you want them. I'll also send you my new 1911 seed book—best I've ever published. Mail postal now to

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HENRY FIELD SEED COMPANY
Box 66, Shenandoah, Iowa



Our Removal Sale

As it is our intention to close out our present stocks before removing to our new building about March 1st. We are making extremely low prices on everything in the store. Those who come to Topeka and shop here during this sale will find the trip a most profitable one.

The Mills Dry Goods Co.

GALLOWAY SAVES YOU \$50 to \$300

Save from \$50 to \$300 by buying your gasoline engine of 1 1/2 to 28-H.P. from Galloway. Save dealer, jobber and catalogue house profit. No such other deal on the class of engine I sell has ever been made before in all Gasoline Engine. Here is the secret and reason: I turn them out all alike by the thousands in my new modern factory, equipped with automatic machinery. I sell them direct to you—no middle man to mark up the price. I sell them direct to you—no middle man to mark up the price. I sell them direct to you—no middle man to mark up the price. I sell them direct to you—no middle man to mark up the price.

Get Galloway's Biggest and Best FREE GASOLINE ENGINE BOOK
Write today for my beautiful new 50-page Engine Book in four colors, nothing like it ever printed before, full of valuable information, showing how I make them and how you can make more money with a gasoline engine on the farm. Write me—
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10 DAYS FREE TRIAL. \$45.75 THE VERY LATEST
An Up-To-Date Spreader With More Good Points Than Any Other
Special Points of Merit: Endless Conveyor, made of angle steel—can't rot, break or warp—lasts a lifetime. Exclusive Force Feed applies power direct to ratchet feed, which is controlled by hand lever, enabling you to spread manure thin, thick or medium. Perfect distribution at all times. When load is discharged, the left wheel throws all working parts out of gear. A detachable, force-feed follow-up board is furnished free. Box is hardwood; solid bottom, on which the all-steel apron conveyor works. Operated by only two levers. Not a gear or spring in the entire machine. Fits any wagon gear or truck. Driven from both rear wheels, doing away with unequal strain. The Force-Feed Board is patented; it measures manure out of box, and is thrown out of gear when it reaches rear of box—an exclusive feature of "Peerless"—not found on other machines. Guaranteed to be the best Spreader made.
Write today for our free catalog, describing the "Peerless" Spreader in every detail, and quoting wholesale prices of Farm Implements of all kinds. You will save big money and get the best. Catalog mailed free on request.
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MAPLEINE FLAVORING
Use it like lemon and vanilla. A delicious syrup is made by dissolving white sugar in water and adding Mapleine. Grocers sell Mapleine; if not, send 35c for 2oz. bottle and recipe book. Write to Dept. CRESCENT MFG. CO., Seattle, Wash.

ELBURN H-2, \$225

THE MOST POPULAR PIANO IN THE SOUTHWEST.



The Elburn has become the factor in home life of the Southwest. Hundreds of satisfied owners are spreading its reputation for quality and durability. We have often said, and we repeat it now that the Elburn H-2 is the BEST PIANO IN THE WORLD FOR OUR PRICE OF \$225. It is made after our own plans and specifications. We know that the quality of the material that goes into it is superior. We want you to see the Elburn H-2, to test it and to realize that all we say of it is true. Therefore, we will send the Elburn to you, freight prepaid. Try it carefully; have all your friends try it, and if it is not all we represent it to be, return it at our expense. You run no risk. The trial will cost you nothing.

USED PIANOS—SCORES OF BARGAINS—many of them as good as new. All of them priced at one-third to one-half of their original value.
We are also factory distributors for STEINWAY, VOSE, WEBER, KURTZMANN, ETC.
Write for catalogs. Address Piano Dept 1.

J. W. JENKINS SONS MUSIC CO., KANSAS CITY, MO.

FOR SALE—AFRICAN GESE; ALSO Toulouse and White China, Rouen and Muscovy ducks; Black Langshan and Barred Plymouth Rock chickens. J. M. Maher, Fremont, Neb.

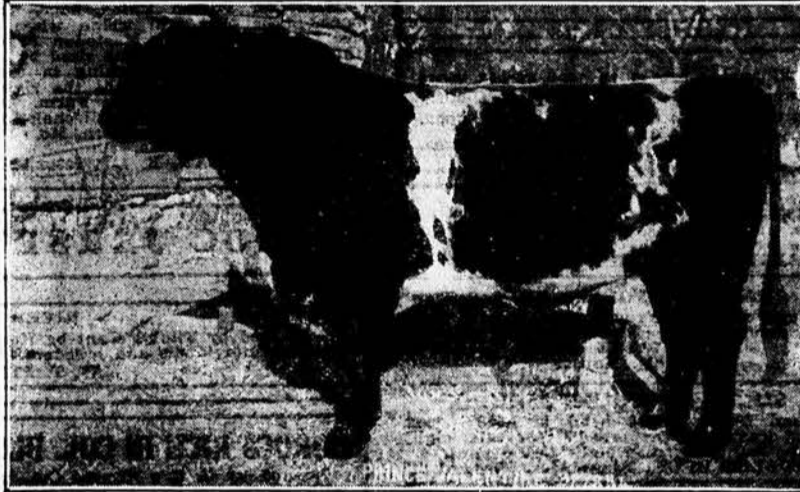
Pelphrey Bros. Short Horn Sale

Humboldt, Kansas, February 13, 1911

WE WILL SELL OUR ENTIRE HERD OF SCOTCH SHORT HORNS INCLUDING OUR GREAT HERD BULL PRINCE VALENTINE BY PRINCE POVONIA

50 head of choice young cows and heifers. All have calves at foot or bred to drop calves in early spring. We are selling these cattle on account of changing location. They are all in fine condition and are sure money makers. We give a partial list:

Lady Archer by George Archer, Princess Charming by Prince Pavonia, Cream Pie by Ingle Lad, Princess May by Prince Imperial 2d, Crocus by Waverly out of Crocus by Golden Crown, Princess Agatha by Prince Pavonia, Ingle's Brises by Ingle Lad, Beauty by Idlewild Baron, one roan heifer by Maron Marr, one young bull by Searchlight, two good



PRINCE VALENTINE.

cows bred to Searchlight. Many of the cows are bred to Prince Valentine. The cows and heifers are from the best herds in Kansas such as S. C. Hanna, H. M. Hill, C. S. Nevius, H. E. Hayes and other good breeding herds. We are selling all our cattle and want farmers and breeders to come to our sale. We have a clean lot of well bred cattle and they will make money for any one who will take care of them.

Send for catalog and come to sale. Remember the date, February 13, 1911. Sale will be held in heated sale pavilion in town. For catalog, write

H. F. Pelphrey & Son OR J. W. Pelphrey & Son

HUMBOLDT, KANSAS

CHANUTE, KANSAS

Auctioneers—R. L. HARRIMAN, JAS. W. SPARKS

Duroc Jersey Bred Sow Sale

At Lecompton, Kansas, February 13, 1911

40 head of Choice Duroc sows and large growthy gilts, 10 tried sows, 30 spring gilts, all bred for March and April farrow to Lincoln Chief, a son of Chief Tatarrax and Cedar Long Wonder by Long Wonder. I am selling 10 head of my very best brood sows and the 30 spring gilts are the pick from my herd as follows: 1 by Bell's Top Model, 1 by Col. S., 1 by B. F. S. Ohio Chief, 1 by W. L. A.'s Choice Goods, 1 by Lincoln Top, 1 by Missouri Wonder, 1 by Neosho's Red Chief, 1 by Surprise 3d, 1 by D. Kant Be Beat, 1 by G. M. S. Col., 9 Long Wonder gilts, 5 Lincoln Chief gilts, and other good breeding. Send for catalog and arrange to attend my sale. All trains met at Lecompton, Kan., and free conveyance to farm. We guarantee a good clean offering. If you cannot come send bids to O. W. Devine, who will represent Kansas Farmer at my sale.

F. M. BUCHHEIM

LECOMPTON, KANSAS

F. J. ZAUN, Auctioneer, Independence, Missouri

Miller & Manderscheid Poland China Sale

At St. John, Kansas, Saturday, February 18, 1911. 50 Head Choice Brood Sows and Gilts



More size, more rich breeding than we ever sold.

Such sows as On's Day Dream, Miss Keep On, Miss Daisy by Meddler, Miss On by On and On, 2 Roll in Line sows—Impudence dam, 7 Prince Meddler gilts, 4 gilts out of Edge Lady by Spellbinder, 1 Meddler gilt, 2 Peerless Perfection sows bred to King Darkness, 2 Ideal Keep On gilts. Most all will be bred to King Darkness. 1 Impudence sow, 2 Prince Meddler gilts out of a Chief Keep On dam, 2 Prince Meddler gilts out of Peerless Perfection dam, 5 gilts by On the Spot, 3 by Roll in Line, 1 sow by Meddler 2d, 1 tried sow by On the Spot, 1 choice gilt by King Blain and several other good sows. We are selling some of our best sows and gilts that are considered by breeders and field men who are familiar with them as probably the best collection of sows and gilts of strictly fancy type ever put through a sale ring in this part of the country. We are selling the very best we have and we are not selling them for any fault but to reduce our herds. Our catalog is now ready to mail out. Get your name on our list. Don't wait to receive it but write today for it. Kindly mention Kansas Farmer when you write. Remember the date, February 18, and come to our sale. We guarantee a good offering. Send bids to auctioneers or O. W. Devine, representing Kansas Farmer, who will treat you right. We prefer you to come and be with us. For catalogs address

MILLER & MANDERSCHIED

ST. JOHN, KANSAS



SMITH & SONS

Annual Bred Sow Sale

The Big Useful Kind at Superior, Neb.

Thursday, February 9th

50--HEAD--50

Offering will consist of 5 tried sows, 8 fall yearlings and 37 large, growthy spring gilts of the Smith kind. The offering will be sired by Smith's Big Hadley and Jumbo Jr. about equally, 2 by Medium and 3 by Big Quality. Are bred to Smith's Big Hadley, Jumbo Jr. and Big Sam, our new herd boar from the herd of Thos. Shattuck and one he says is one of the very best he ever raised. Sows and gilts have had the run of the farm and have been fed with an eye to future usefulness. Our own sows have run with our sale hogs. The offering is chuck full of size and quality. It would be a pleasure to us to have you come sale day and look them over. We will risk your verdict. Catalogs are ready. If unable to attend send bids to R. G. Sollenbarger in our care.

Will also sell 3 yearling Shorthorn bulls which are good ones.

Attend T. J. Charles' sale day before at Republic, Kan.

JOHN BRENNEN, AUCTIONEER.

Albert Smith & Sons
SUPERIOR, NEBRASKA

7th Annual Sale

Poland Chinas

Valley Point Stock Farm

TUDOR J. CHARLES

2 Miles West of Republic City, Kansas

Wednesday, February 8th

Offering will consist of 3 tried sows by Expansion, Expansion See and Eureka, 27 fall gilts are by Eureka, Mammoth Hadley and Bill Expansion, 10 spring gilts by Hadley Leader, he by Smith's Big Hadley, and 4 summer boars by Hadley Leader and Eureka out of Expansion and Smith's Big Hadley bred sows. The sows and gilts are bred to Hadley Leader and Monarch by Eureka. The offering is not loaded with fat but are in condition to do the buyers good. They have been handled and fed with that point in view. Will also offer 2 yearling Shorthorn bulls, one of which is exceptionally good, both red. If unable to attend send for catalog, which is ready, and mail your bids to R. G. Sollenbarger in my care.

JOHN BRENNEN, AUCTIONEER.

Tudor J. Charles
REPUBLIC, KANSAS

125 Registered Holstein Friesians at Auction at South Omaha, Neb. Tuesday and Wednesday, Feb. 7-8, 1911

25 BULLS from 1 month to 2 years old, including grandsons of Hengerveld De Kol, King Segisand and other great bulls, and 10 sons of King Hengerveld, the only son of Hengerveld De Kol, out of a dam with a record of better than 31 pounds.

50 COWS from 4 to 8 years old, all bred to good bulls and a lot of them with big A. R. O. records, or just fresh with large square udders, and the kind that milk the year round.

35 HEIFERS 1 to 4 years old, mostly bred to calve in the spring and summer.

15 HEIFER CALVES all sired by good bulls, and out of heavy milking dams.

In all, positively the best bred lot of Holstein cattle ever sold at auction in the central west. Every animal over 6 months old is tuberculin tested. Catalogue will be sent only on application, to

ROCK BROOK FARM, Sta. B, Omaha, Neb.

Percheron Stallions and Mares

We will sell at public auction at

GARNETT, KAN., FEB., 9,



Six imported and home bred stallions weighing from 1,700 to 1,900 pounds, three good mares, one span shown in cut, 3 and 4 years old, both in foal, all registered in Percheron Society of America, one registered Kentucky bred jack. Come to our sale and buy some of these good horses.

CROWDEN BROS.,
GARNETT, KAN.

AUCTIONEERS—R. L. HARRIMAN, B. F. JOHNSON, J. B. RUDDISIL.

FRANK IAMS'

new importation of draft stallions and mares arrived October 23, 1910, by "Iams' own special train" of "8 express cars." They are "business propositions," that "jar the cherries" on a "wide-awake" "horseman's hat." Iams' "Peaches and Cream" stallions and mares are "eye-openers." They are "diamonds," sold "at fifty cents on the dollar." They are "winners" and "sons of winners," having won "eighty prizes and medals" at Paris and Brussels and leading European horse shows. Iams makes buyers

"SIT UP AND TAKE NOTICE"

"Ikey Boys," get into Iams' "money-saving game." Buy a stallion and mare today—save \$300.00. Iams "tickles" buyers with "Rippers" at "Let Live Prices." Owing to bad crops, panic—Iams' cash, his 29 years' successful business. He bought and sells better horses cheaper than ever. Mamma, Iams is a "hot advertiser," but, "he has the goods" and sells horses at his barns only: Buyers get the "middlemen's profits" at Iams'. Iams has

160---PERCHERONS AND BELGIANS---160



two to six years old, weighing 1,700 to 2,500 pounds; 90 per cent blacks, 50 per cent ton stallions. All registered and branded. He sells "toppers" at \$1,000 and \$1,400 (few higher), mares \$700 to \$1,000, so good they need not be "peddled" or put on the "auction block" to be sold. Iams' "selling clothes" fit all buyers. No man with money or bankable notes gets away from Iams. He buys, owns and sells more stallions than any man in the United States; saves thousands of dollars to stallion buyers. He is not in the stallion trust. Iams places \$1,500 insurance.

\$1,000 SAVED AT IAMS' \$1,000

Ikey, what "a graft" these "stallion salesmen" are working on the farmer, selling fourth-rate stallions at \$2,000 and \$5,000! Mr. Buyer, see Iams' stallions yourself. Take no stallion salesman's word. "Iams has the goods you read about." His establishment is worth going 2,000 miles to see. Iams' competitors "holler." He is knocking "high prices" out of the Xmas tree. Iams saws wood, "butts in," sells more stallions each year. He makes every statement good. Big Bill, buy a stallion of Iams. His \$1,200 stallions are much better than our neighbors paid those Ohio men \$4,000 for. Then I can wear diamonds. Iams speaks the languages, buys direct from breeders, pays no buyers, salesmen or interpreters; has no two to ten men as partners to share profits with. Iams guarantees to sell you a better stallion at \$1,000 to \$1,500 than are sold to stock companies at \$2,500 to \$5,000 by slick salesmen, or pay you \$500 for your trouble, you the judge. Iams' pays horses' freight and buyers' fare; gives 60 per cent breeding guarantee. Iams' guarantee is backed by one-half million dollars. Write for million dollar Catalog.

REFERENCES:—ST. PAUL STATE BANK AND CITIZENS' NATIONAL BANK, ST. PAUL, NEB.; FIRST NATIONAL BANK AND OMAHA NATIONAL BANK, OMAHA, NEB.

ST. PAUL, NEBRASKA

LAMER THE IMPORTER

50 head of Imported Percheron and Belgian Stallions and Mares for sale at "Let Live Prices." Write for catalog. Prices right.

C. W. LAMER, SALINA, KANSAS

IMPORTERS AND BREEDERS.



Percherons, Shires and Belgians

75—HEAD MARES AND STALLIONS—75

We won more prizes at Kansas State Fair than any one exhibitor, which proves the quality of our horses. Just one word with you, Mr. Buyer: If you will come and inspect our horses and if you don't say that we have as good a bunch as you ever inspected, and our prices the lowest, considering quality, we will be glad to pay your expenses. Write or come and see us before buying elsewhere, for we will save you money.

L. R. WILEY & SONS
ELMDALE, CHASE CO., KANSAS.

PERCHERON MARES

Weanlings to 4 years old in matched teams, including the Kansas State Fair and American Royal champions, all registered or can be registered in Percheron Society of America. Good clean lot of heavy bone mares and bred to the champion stallion of Kansas State Fair at Hutchinson, 1910. Come and see me.

F. D. WEBB, Sterling, Kan.

The Big Combination POLAND CHINA BRED SOW SALE of the SEASON Valley Falls, Kan., Tuesday, February 7

W. E. Long consigns 25 head consisting of 7 tried sows, 9 fall yearlings and 9 spring gilts. All selected with care and all good individuals. Including the great sow, Minnie K., and six of her daughters. Few breeders would have the courage to part with a sow like this but she goes in as an attraction. Blue Valley Girl and Maud Hadley are close seconds. The fall gilts are daughters of the 1,000 lb. Peter Mouw boar, Big Chief. The spring gilts are practically all by the great boar, Long's Mogul and out of such big sows as we have already mentioned. Bred for March and April farrow to Long's Mogul and my great young boar, King Mastodon 2d. Sired by King Mastodon by Demonstrator. His dam, Lady Mastodon 96th, one of the very best daughters of perhaps the largest living Poland China boar, A. Wonder.

J. M. Ross is changing locations which makes it necessary to disperse his entire herd so the 25 he puts in includes all of his great old sows, the two herd boars, 8 choice fall yearlings and 5 spring gilts. Among the brood sows are several that would not be for sale at any price under different conditions, among them two daughters of Look Grand, Minnie Price by old Price We Know, Gertie by Bell Metal, etc. All excellent individuals and bred for March and April farrow to the boars, Ross's Hadley by Big Hadley and Western Expansion by Expansion's Son. The gilts are by the Hadley boar and it is doubtful if there will be a better or more uniform bunch sold this winter.

50 Head of First Class Strictly Big Type Sows and Gilts That are Sure to Please

They are representatives of the families that have made good in the past, the blood lines are about right and they have been fed and handled properly for the best results. Write for catalog early, to either of us.

J. M. ROSS,
Valley Falls, Kan.

W. E. LONG
Ozawkie, Kan.

AUCTIONEERS—J. W. SPARKS, JOHN DAUM.
FIELDMAN—JESSE JOHNSON, to whom bids may be sent.

AVONDALE STUD FARM--CLYDESDALES LARGEST IMPORTER AND BREEDER OF CLYDESDALES IN U. S.

Our winnings at the State Fair, including the Grand Champion Stallion of the International, 1910, is our best advertisement. Those wanting stallions or mares should write for catalog or visit the farm. To make room for other importations in February, we will make a special discount for next 20 days. We are 10 miles west of Peoria on the C., R. I. & P. Ry. JOHN LEITCH, Proprietor, La Fayette, Ill.

LAKEWOOD FARM The Greatest Breeding Establishment in the World

Our Percheron winnings at the recent Chicago International, which is conceded to have been the greatest Percheron Show ever held in the world, has never been equalled before.

At this great show, we won:

CHAMPION STALLION, showing four of his get (CALYPSO)
CHAMPION AMERICAN BRED STALLION
RESERVE CHAMPION AMERICAN BRED STALLION
CHAMPION MARE
CHAMPION AMERICAN BRED MARE

Also TWENTY-FIVE other prizes. All of these CHAMPIONS were sired by the world's famous CALYPSO.

LAKEWOOD FARM IS HEADQUARTERS FOR THE BEST, and our prices are reasonable. Send for illustrated catalog.

H. G. McMILLAN & SONS, Props.

Rock Rapids, Iowa

HOMWOOD STOCK FARM

IMPORTERS AND BREEDERS OF

Percheron Belgian Shire Stallions and Mares

NOTICE TO PROSPECTIVE BUYERS:

For the benefit and convenience of our Western trade, we have established a permanent branch barn at Abilene. Prospective buyers are cordially invited to inspect our stock here, and if you don't find just what you are looking for, we will be pleased to accompany you to the home barn at Homewood, Ill., where we can show you 100 head of big, draft Stallions and Mares with plenty of bone and quality. Every horse guaranteed sound and a satisfactory breeder. Prospective buyers should see this stock before buying elsewhere. Third importation to arrive in ten days. Write us your wants, or better still, come and see us. Abilene is on the Rock Island, Santa Fe and U. P. railroads. Mention Kansas Farmer when writing.

Barns 2 Blocks

North U. P. Depot.

S. METZ & SONS ABILENE, KANSAS

PERCHERON IMPORTING CO. AT THE FOUR BEST SHOWS IN THE WEST WE WON:

12 times champion stallion any age.
6 times champion group of five stallions. 29 times first in stallion classes.
Champion Percheron stallion at Inter-State Fairs.
Champion Shire Kansas and Missouri State and Missouri State Fair.
Champion Belgian Kansas, Missouri and American Royal.
All our horses are imported. We sell as low as anyone on earth, quality considered. Our guarantee and insurance are the best.
PERCHERON IMPORTING CO., South St. Joseph, Mo.



W. H. RICHARDS, Importer PERCHERON AND BELGIAN HORSES.

A car load of extra good 2-year-old and 3-year-old stallions recently arrived. Come and see these magnificent horses before you buy a stallion. I will make you some eye-opening prices just now. Barns only four blocks from A., T. & S. P. Depot.

EMPORIA, KAN. EASY TO GET THERE.

VALLEY SPRINGS PERCHERONS

IMPORTED AND HOME-BRED STALLIONS AND MARES.

The big, rugged kind, with heavy bones, fine style and good action. No better blood lines in America. Black Kentucky Jacks and Jennets, with size and quality.

O. P. HENDERSHOT,

Hebron, Neb.

C. S. NEVIUS POLAND CHINA SALE

My sixth annual bred sow sale on

February 11, 1911

50 head of the Designer and Major Look kind. 30 yearling and tried sows by Designer, Major Look, McDarst, Columbia Expansion. 20 spring gilts by same sire. A choice lot of sows bred to Designer, Major Look, Good Metal, Big Hadley's Model, and Orphan D. for early litters. This will be the best lot I ever sold at public auction. Send for my catalog and come to my sale. Bids sent to O. W. Devine representing Kansas Farmer will be carefully handled.

AUCTIONEERS—COLS. R. L. HARRIMAN, JOHN D. SNYDER, H. HOHENSTEIN.

C. S. NEVIUS CHILES, KANSAS

George M. Hull, at Garnett, Kan., sells Feb. 10, day before my sale.

Grand Dispersion Sale of High Grade Poland Chinas

The Event of the Season. 150 Head, Which Include Our Famous Herd Boar Parnell and Sixty Noted Brood Sows. Everything Goes.

On account of selling our farm, we must give possession March 1st, 1911, consequently we will offer our entire herd at public auction

TUESDAY, FEB. 7th, 1911, AT ELDON, MISSOURI

This will be the opportunity of a lifetime to get foundation stock from one of the world's greatest herds of Poland Chinas, the offspring of the most noted sows of the breed gathered together at an immense outlay of money, time and care. We will offer 4 daughters of the famous Cute's Keep On, all wonderful individuals and producers, 2 beautiful daughters of the \$1,700 Princess Goffey, the dam of the great Home Run, besides sows and gilts by all the leading sires of the day.

We cordially invite your presence and know that we can supply your needs whether you wish herd boars, bred sows or gilts. We will sell 100 head of fall and summer gilts and boars. This is the place to make money. Drop a card for catalog.

VANHOOSER STOCK FARMS H. B. VANHOOSER, Prop
Eldon, Missouri

A. F. OVIATT, SALE MANAGER. AUCTIONEERS—COL. H. O. CORRELL, COL. LAFE BURGER.
O. W. Devine represents this paper. Bids sent to him will be handled with care.



**WE WANT YOU to COME to LINCOLN
AND VISIT OUR BIG BARNNS**

WE WILL NOT DISAPPOINT YOU

We have the largest and best equipped importing establishment in America. We have been importing horses for more than 30 years. We have imported the largest, strongest, and best bred

Percherons, Shires and Belgians Europe Could Produce



Mr. Watson, who has twice judged the horses at the Chicago International, personally selects every horse we ship from Europe. He buys all of our horses from the six oldest and largest breeding firms across the water—firms which have been breeding the great show ring winners of Europe for more than 200 years.

We stand back of our horses.

Every horse we sell is guaranteed with a guarantee that is a guarantee, backed by \$300,000 capital and 30 years' good faith.

We want you to come to Lincoln and visit our big offering.

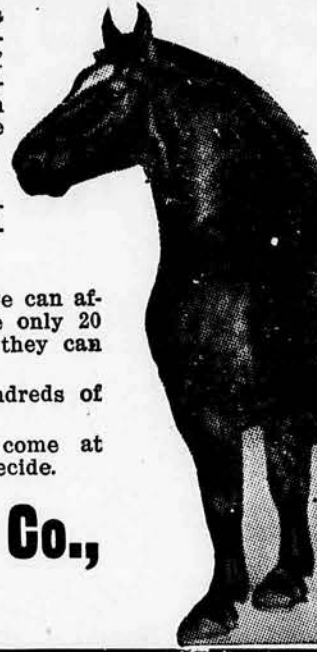
We ship horses from Europe in such large numbers that we can afford to sell them at a small profit, in fact dealers who handle only 20 to 30 stallions and mares can buy them cheaper of us than they can import them.

Come to Lincoln and be convinced. We can save you hundreds of dollars on any animal you select from our barns.

Wire us that you will start in the morning. If you can't come at once, send for our big illustrated catalog. It will help you to decide.

Watson, Woods Bros. & Kelly Co.,

Dept 1, LINCOLN, NEB.



DUNHAMS' PERCHERONS

For forty-six years renowned as the best of the breed. Six large importations since February 1, 1910 (the last arrived October 12th), insure fine selection, as each animal was individually selected for size, bone quality and excellence. If you want choice stallions or mares, write for catalogue, illustrated from life.

W. S., J. B. & B. DUNHAM
WAYNE, ILL.

Riverside Stock Farm

Importer and Breeder

FOR SALE—12 head of registered Percheron stallions from 2 to 5 years old, 8 head of registered mares and fillies; the good bone kind; also two large standard bred stallions; also a few good big jacks. All this stock will be closed out at a low price and must be sold before March 1st. All pedigrees and breeding guaranteed. Come and see them and get your choice.

O. L. Thisler, Chapman, Kansas

Percheron Stallions

I have as fine a bunch of stallions as you will find. I have the ton size, and 1,700 to 1,800 pound two year olds, with worlds of bone and great action. My prices are right and my horses are right.

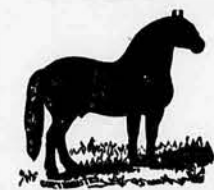
Yours for home grown Percherons,

J. W. BARNHART, Butler, Mo.

PERCHERON HORSES, HOLSTEIN-FRIESIAN CATTLE.

Up-to-date Poland China hogs. Write your wants.

H. N. HOLDEMAN, Meade, Kansas.



**Percherons
Belgians
and Shires**

Also Shetland Ponies. Will have a good importation of stallions of the breeds mentioned Jan. 1. Now offering special bargains in mares to make room. Call on or write Joseph M. Nolan, Paola, Kan., 40 miles south of K. C. Please mention the Kansas Farmer.

When writing advertisers please mention Kansas Farmer.



ROBISON'S PERCHERONS

For sale now, 100 head of stallions, mares and colts, of all ages. All stock recorded in Percheron Society of America.

ADDRESS BOX C,
J. C. ROBISON, Towanda, Kan.

DRAFT HORSE PUBLIC SALE

The Kansas Public Sale Company

SOLICIT ENTRIES OF PURE-BRED AND GRADE DRAFT HORSES, JACKS AND MULES FOR A COMBINATION SALE TO BE HELD AT
TOPEKA, KANSAS, FEBRUARY 23-24, 1911

Sales will be held in the large new barn holding 536 head of stock at the Fair Grounds, assuring comfort, regardless of weather. If you have one or any number of head to sell, give us your entries early and get the benefit of advertising. All stock catalogued. Terms reasonable as can be made. Entries close February 7. We will hold a sale of Standard-bred road, and light work horses in April. Get them ready. For entry blanks and further information address,

Topoka, Kansas

O. P. UPDEGRAFF, Manager

BOWSER'S

Big Type Poland China Bred SOW SALE

At Farm 8 Miles North of Abilene, Kansas

Friday, February 10, 1911

12 Tried Sows 2 Fall Yearlings
35 Spring Gilts

50 head of the type that the best breeders and successful feeders are looking for. Bred for March and April farrow to Bell Metal M. by Bell Metal and Hadley Wonder by Knox All Hadley, a pair of as good big type boars as can be found in any one herd in Kansas. Both have a long line of big ancestors and were selected out of the best herds in the west. The sows that go in are sows that have made good in my herd and are still young. They combine size and smoothness. Among them are daughters of Prince by Stylish Perfection, Success by Grand Success by Grand Chief 41771. The gilts are the tops from a large number raised the past season. They were sired by the boars Success and Bell Metal M. Several out of the good sow, Mabel by Osborne's Perfection. I am feeding them as they should be fed and will show you a good, useful offering sale day. Free transportation to farm from Abilene and Talmage. Free entertainment at either place. Catalogs ready. Write for one.

AUCTIONEERS—W. C. CURPHEY, H. R. LITTLE.

FIELDMAN—JESSE JOHNSON. Send any bids to him.

J. E. BOWSER

ABILENE, KANSAS

TILLER'S

Great Duroc
Jersey Bred

SOWS

At AUCTION

In Pawnee City, Neb., Wed., Feb. 8, 1911

35 HEAD

4 Tried Sows! 14 Fall Yearlings!
17 Spring Gilts!

All bred for last of February, March and April farrow to my herd boars, Tom Davis 42009, Chief's Valley by Valley Chief, and Prince Wonder Col. by Ohio Col., winner of first and championship at Kansas State Fair this year. As attractions I am including the great sow, Elleree, winner of first at Nebraska and Iowa State Fairs and third at St. Louis World's Fair in 1904. She is in pig and will produce another great litter by Tom Davis. Grandview Bell by Crimson Dandy is another great sow, closely related on dam's side to old Ohio Chief. Choice Girl by Bell's Chief 4th he by Bell's Chief, dam by W. L. A.'s Choice Goods, and Crimson Bell by Crimson Monarch, dam by Morrison's Bell Top, a son of Nebraska Bell. The gilts are a very choice lot out of such great sows as we are mentioning and sired by such boars as Tom Davis, Crimson Monarch, etc. I have always bought good ones and tried to select the blood lines that seemed to be giving the best results. I think the offering is a good one and every breeder and farmer in the west are invited. Catalogs are ready for distribution and will be sent upon request, and if you see something that interests you and can't be present send a bid to Jesse Johnson in my care.

AUCTIONEERS—L. W. LEONARD AND SONS.

O. A. Tiller

Pawnee City, Nebraska

Samuelson Bros. Annual Duroc Jersey Bred Sow Sale

Cleburne, Kans., Thurs., Feb. 9, 1911

54 HEAD

<p>10 Tried Sows</p> <p>18 sired by Rollin J. 16 by White House King. 3 by Bell's Chief 2d. 3 by Bold Boy. 2 by G. C.'s Col. 2 by T. B.'s Chief.</p>	<p>44 Spring Gilts</p> <p>2 by Rose Top Notcher. 1 by E.'s Tip Top Notcher. 1 by Model Chief Again. 1 by Choice Goods' I Am. 1 by You Bet. 1 by Blue Valley Boy. 1 by Lincoln Top.</p>
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Bred for Early Farrow to

Bred for early farrow to White House King, Bell's Chief 2d, Shepherd's 1910 Top, Duroc Col., Timber City Col., New Model.
40 due to farrow in March, 14 due to farrow in April.

This is our annual bred sow sale and the best offering we have ever been able to put up for public approval. The tried sows are all good individuals. They have made us money and are not being sold for any fault. We are willing to divide the good ones with our customers. Very prolific the past season. We raised 123 pigs from 157 farrowed out of 14 sows. Among the gilts are several of outstanding individuality and not a bad one in the entire offering. Write for catalog and plan to attend this sale.

Free transportation from Cleburne and Olsburg to our farm.

Send bids to Jesse Johnson or Leon Carter in our care at Cleburne.

AUCTIONEERS—L. R. BRADY, JAS. T. McCULLOCH.

Samuelson Bros.

CLEBURNE, KANSAS

Graner's Strictly Big Type Poland China Bred Sow Sale

At Farm Two Miles From Town

Thursday, February 9

In heated pavilion where every one will be made comfortable.
50 head in all consisting of 9 tried sows, 3 fall yearlings, 29 selected spring gilts and 9 choice August boars.

Sows and gilts bred for March and April farrow to my herd boars, Guy's Monarch 51415, Colossus Boy 56709, Col. Thomas 57055, and Kansas Victor 57053.

TRIED SOWS—include Prima Bell by Bell Metal, one of the very best sows in Kansas which we are putting in believing that she will be appreciated, Miss Josephine 2d by Neb. King, Lady Blain 3d, and others that have been and are still the very best things in the herd.

GILTS are partly of my own raising, a big per cent of them by the great Guy's Monarch, and many that I selected at sales held by the very best breeders in Kansas and Nebraska last fall. A fall gilt by Guy's Monarch and out of a First Quality dam is I believe the best fall gilt I ever saw put into a sale. Among the spring gilts are a pair sired by Colossus and out of the great sow, Prima Bell. The young boars include a litter of five farrowed in August sired by Guy's Monarch and out of the 700 pound Prima Dona.

I believe this offering contains as much good blood and as many outstanding individuals as will be seen in any one sale this year. Every hog man in Kansas and adjoining states invited. Write for catalog and if unable to attend send sealed buying instructions to Jesse Johnson in my care.

AUCTIONEERS—JAS. W. SPARKS, JOHN DAUM, HOHENSTEIN BROS.

H. C. Graner

Lancaster, Kansas

NORTHERN KANSAS DUROC SALE CIRCUIT**WARD BROS. ANNUAL BRED SOW SALE OF
ROYAL BRED SOWS AND GILTS****Republic, Kas., Tuesday, Jan. 31, 1911**

Consisting of 10 tried sows, 3 yearling sows, 20 spring gilts and 2 spring boars. Among the tried sows you will find such sows as Rose Banker by Advance Banker, Cherry Girl by Cherry Boy and other sows by Model H., Pearl's Golden Rule, Expansion, J. B.'s King of Cols., Improver Jim, and others. The spring gilts are sired by Model H., Expansion, Crimson Rule Prince Wonder 2d. The offering is bred to Model H. by Higgins Model, Expansion, Crimson Col., Belle's Prince Wonder by Prince Wonder 2d and his dam by Pearl's Golden Rule.

The offering is of good size, in excellent condition and the blood lines represented have proven their superiority. Attend the sale and we'll take good care of you. Catalogs ready. If unable to attend send bids to R. G. Sollenbarger in our care. Remember the place and date. Parties coming on the R. I. R. R. stop at Scandia.

WARD BROS., Republic, Kansas

AUCTIONEERS—JOHN BRENNEN, N. S. HOYT.

**W. E. MONASMITH'S
BONNEY K AND KANSAS SPECIAL BRED SOW SALE****To Be Held at Formosa, Kas., Wednesday, Feb. 1, 1911**

The offering will consist of 10 tried sows by such sires as Golden Ruler, Chief Improver, Model Chief Again, Belle's Chief, Big Chief and Nebr. Wonder, all bred for early litters to Bonney K. 47075; 30 spring gilts by Jewell's Col., King of Kant Be Beat, Prince Wonder 2d, Top Notcher's Top and A Lincoln Top. Ten of these are bred to Bonney K. and 16 to Kansas Special he by Valley Chief, also 4 spring gilts bred to Nebr. Boy by Bonney K. and dam by Nebr. Wonder. The entire offering is strong in quality and breeding and have been fed to do the buyer good.

Sale will be held in heated pavilion on the farm. Attend the sale and we will have things arranged for your comfort and profit, and show you one of the best Duroc offerings you will see this year. If unable to attend send bids in my care to R. G. Sollenbarger. Catalogs ready.

W. E. MONASMITH, Formosa, Kan.

AUCTIONEERS—JOHN BRENNEN, N. S. HOYT.

**RINEHART & SONS'
ANNUAL BRED SOW SALE****At Smith Center, Kas., Friday, February 3, 1911**

Being mostly the get of King of Kant Be Beat and Golden Ruler. In the sale will be 7 tried sows by King of Kant Be Beat, Golden Ruler, Ripley Top Notcher. Some of these will be bred to King of Kant Be Beat. The 43 spring gilts are by King of Kant Be Beat, Golden Ruler, Jewell's Col., Bonney K. and others and bred to King of Kant Be Beat, R. & S. Duroc Wonder, Golden Bonney and Crimson Wonder 5th by Crimson Wonder Again and his dam, Mo. Girl, who is also the dam of H. A.'s Queen. Our gilts will go in the sale weighing from 250 to 300 pounds and not loaded down with fat. The sows are right, have been fed right, and if you will come to the sale we will treat you right and think you will say we have a great offering. Sale at fair grounds joining Smith Center. Get a catalog, and if unable to attend send yours bids to R. G. Sollenbarger. Catalogs ready.

RINEHART & SONS, Smith Center, Kas.

AUCTIONEER—JOHN BRENNEN.

**W. C. WHITNEY'S
Annual Offering of Bred Sows****At Agra, Kansas, Saturday, February 4, 1911**

Which will consist of 35 spring gilts of early farrow and by noted sires, among which are the following: Agra Top Notcher, our 900-pound sire by Tip Top Notcher, I Am a Bonney K. by Bonney K., Bonney K. 47075, I Am a Buddy K., and are bred to the above boars and Bonney K. 2d, he by Bonney K. 47075 and out of a sow by Belle's Chief and she out of a dam by Crimson Wonder. This is an outstanding pig and you should have a litter by him or Agra Top Notcher or both. The dams of the offering are by such sires as Agra Top Notcher, Bonney K., G. C.'s Col., Rosebud Chief, McParker, Belle's Chief and others. Send for catalog and be with us sale day. You will see a bunch of bred gilts that will please you and do you good next year. If unable send bids to R. G. Sollenbarger.

W. C. WHITNEY, Agra, Kansas

Catalogs ready.

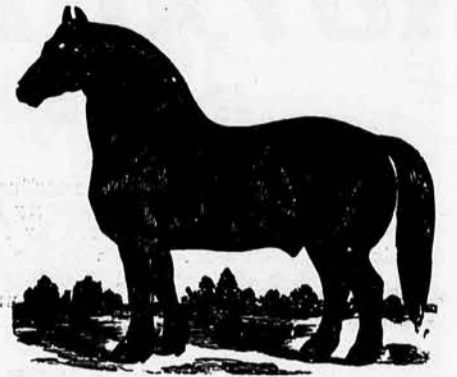
CLOSING OUT SALE OF JACKS - JENNETS - PERCHERONS



February 16, 1911

AT

FAIR VIEW STOCK FARM
Sedalia, Missouri



20 JACKS, from colts to 7 years.
All Mature Jacks 15 hands high
and over.

10 JENNETS, from Colts up.
All are in foal to our Grand Cham-
pion Tennessee King.

9 PERCHERON MARES - 3 PERCHERON STALLIONS
All Registered All Good Ones

This is an Absolute **DISPERSION SALE** We are Leaving State

PETTY BROS.,

SEND FOR CATALOGUE

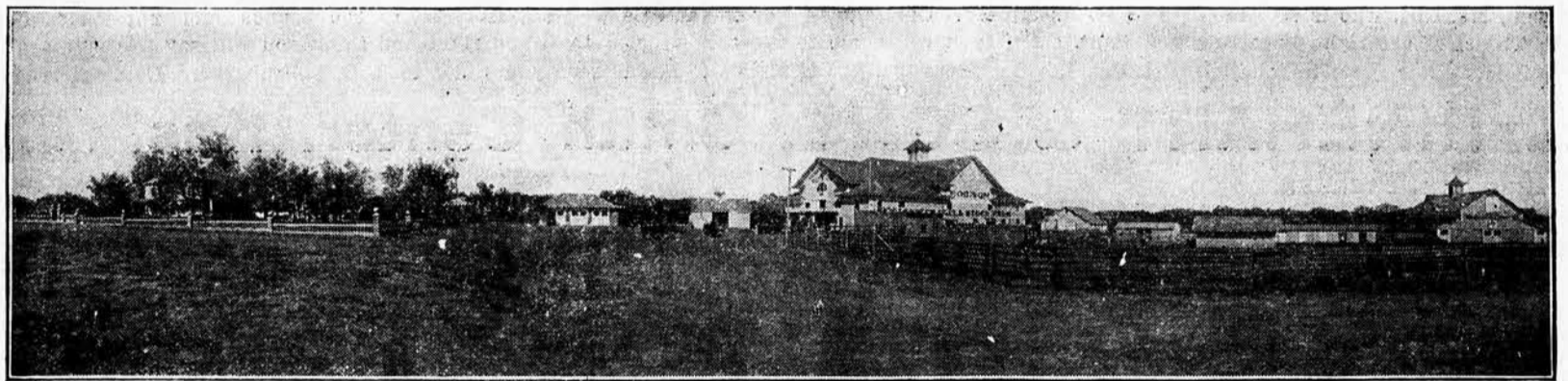
Sedalia, Missouri

ROBISON'S PERCHERON SALE

60 Registered Percheron Stallions, Mares and Colts **60**

At Auction, at the Whitewater Falls Stock Farm,

TOWANDA, KANSAS, FEBRUARY 14, 1911



25 Registered Stallions, Imported and American Bred, Herd Headers. 25 Registered Mares, Imported and American Bred. 10 Weanling and Yearling Colts.

PRIZE WINNERS!

This sale will include the best lot of young Mares ever offered for sale from this farm. Mares bred to Casino, the greatest prize winning Percheron Stallion living.

At Sale Pavilion on the Farm.

This sale is the third sale held at the farm and will be held in the new \$5,000 Sale Pavilion.

AUCTIONEERS—R. L. HARRIMAN, JAS. W. SPARKS, L. E. FIFE, W. M. ARNOLD.

Oldest Percheron Breeding Farm in Kansas.
Four miles northwest of Towanda, Kansas, on the Missouri Pacific Railroad.
Stallions all guaranteed breeders.
Stock loaded on cars free of charge.
Address for catalogue,

J. C. ROBISON.
TOWANDA, KANSAS

A. P. WRIGHT'S

Great Variety Poland-China Sale., Valley Center, Kansas, Feb. 16th

Genuine good hogs that have size, quality, and conformation. 50 head the tops of the herd, not a swirl, spotted, off colored or defective one in the bunch, royal breeding.

40 Sows Bred to On the Plumb, Home Run 2nd and Sir Bredwell
10 Matchless Open Gilts, 6 Out of \$300 Corrector Sow

Sows sired by KEEP ON, HOME RUN 2D, SIR BREDWELL, CORRECTOR 2D, etc. Includes tested sows, fall yearlings, and spring gilts. If you want useful, well fed matured hogs that have size and bone, we can suit you.

You are welcome if you buy or not. Don't forget the date, February 16. Send postal for catalog early. Sale at farm, in new pavilion. Electric R. R. service from Wichita to Valley Center every hour. AUCTIONEERS—JOHN SNYDER, LAFE BURGER.
Send bids to O. W. DEVINE. For all information address

A. P. WRIGHT, VALLEY CENTER, KANS.

Breeder of Poland-Chinas exclusively.

Hull's Annual Brood Sow Sale

At Garnett, Kansas, Friday, February 10, 1911

50-Head of High-Class Bred Sows and Gilts-50

30 head spring gilts the best I raised, 20 head of my best brood sows and fall yearlings, consisting of such sows as Dude's Daisy by Tip Top Dude, Midnight 2d by Hadley Boy and out of old Midnight, 3 good sows by O. K. Price, Iola Garnett by Columbia Chief, Kansas Queen 4th by Nebraska King. 16 choice spring gilts by Hadley Boy. 10 spring gilts by William Garnett. The balance are by King Blain, Big Hadley, Erie King, Sheldon's Hadley, Taxpayer 2d, John Boy by Big John, Standard O K. and other boars of the large type breeding, and bred to Hadley Boy 48009, The Lion 55586, Kansas Hadley 57114, Bean's Wonder 57113, and Longfellow 58096. I guarantee a good offering. Send for a catalog and come to my sale. O. W. Devine will represent Kansas Farmer. Bids sent to him will be handled with care.

AUCTIONEERS—COLS. C. E. BEAN, H. HOHENSTEIN, A. J. DORSEY, JOHN RUDDISIL.

C. S. Nevius will sell at Chiles, Kan., February 11, the following day.

GEORGE M. HULL, GARNETT, KANSAS

Larson's Closing Out Hereford Cattle Sale Saturday, February 18th

At farm near Huron, 20 miles North-west of Atchison, Kansas,
35 miles West of St. Joseph.

My entire herd of registered Hereford cattle, comprising 15 high class bulls in age from 8 to 20 months.
45 FEMALES: 28 of which are cows with calves at foot or in calf to the great bull, Beau Royal 199349, first prize bull at Denver show 1908; 6 two year old heifers and 11 yearlings. This herd was established fifteen years ago and every animal except four that goes in the sale was bred by me. Eight very choice cows are daughters of Hesiod 54th, a state fair winner. A dozen good ones by Romolusa, grandson of Beau Brummel and Druida, a Gudgell & Simpson bull of considerable note. Several daughters of Beau President, and several by Beau Mischieff by Beau Brummel. The offering is of a very uniform type and there will not be a poor animal offered. Every good family represented. Write for catalog giving complete information, breeding, etc.

JAMES. A. LARSON

EVEREST, KANSAS



Hesiod 54th 81362, Sire of a number of Good Cows in the Sale.

AUCTIONEER—COL. GEO. BELLOWS.

FIELDMAN—JESSE JOHNSON.

WHITE BROS. DUROC SALE

At Buffalo, Kansas, Wed., Feb. 15, 1911

40--HEAD OF CHOICE BRED GILTS--40

We are selling the tops from 160 head of spring pigs, and the best blood lines we can buy. Mostly sired by Buffalo Chief by The Son of the Champion and out of Baby Wonder out of Doty. A large number of these gilts will be bred to Shamrock, our young herd boar, he by Duroc by Missouri Goldfinch, dam Lucy Wonder out of Lucy Climax, she by 2d Climax. These gilts are out of our best sows and the best lot we ever raised, from such sows as Lady Belle out of Savannah Bell. She is one of our good sows. Sweet Marie, dam Iowa Girl 3d, one of the best producing sows on the farm and a producer of show litters. Sweet Marie was the dam of Sweet Marie 2d, the champion gilt at Yates Center Fair this year. Cherry Girl 2d by Buffalo Chief. Maggie by Kansas Kant Be Beat. May Model 2d by a son of the champion. Her dam was by old Tip Top Notcher, and other good breeding. We guarantee a first class offering.

Send for a catalog and arrange to attend our sale. Remember the date, Wednesday, February 15, 1911, and Buffalo, Kansas, the place.

O. W. Devine will represent Kansas Farmer. Bids sent to him will be carefully handled.

AUCTIONEERS—J. W. SHEETS, Fredonia, Kan.; WILL MILLS, Yates Center, Kan.

WHITE BROS., BUFFALO, KANSAS

Sharpen Your Tools at MY Expense!

Mail the Coupon for
full explanation of
our great ten days'
free trial offer



I will send you a **Harman Special Alectride Farm Tool Grinder**, with ten Grinding Attachments, right to your farm for an absolutely free **free trial** lasting ten days.

I will guarantee that this Alectride Grinder will **not** draw the temper from the steel.

I don't want you to send me any money—not a cent. **I want to make you an offer so liberal that you simply cannot afford to refuse it.**

I will give you the use of this magnificent outfit for **ten days absolutely FREE**—no red tape, no papers to sign, no obligations of any nature. Just get the outfit use it for ten days just as though it were your own, on your own work, sharpen your sickles, plowshares, cultivator shovels, scythes, axes—anything that is dull—then, if you wish, return it to me at my expense.

Now, I want to tell you why I am making this offer

We know that every progressive, up-to-date farmer realizes the advantage of always having sharp, bright tools to work with. You know how much more work can be done with tools which are always in good condition. You know how much easier your work is and how much longer your tools last. You know all these things and yet—**you DO sometimes work with dull tools, don't you?**

I want to prove to you that you can **easily** keep **all** your farm tools in good condition **all** the time with this wonderful, **simply wonderful**, outfit which I will send you **FREE**.

Genuine Alectride Grinder NOT An Emery Wheel

And **Alectride** is the most wonderful abrasive in the world, even hard enough to scratch the diamond. It is really manufactured precious stones, for it is made of the very same substances which go to make up the sapphire and the ruby. **Alectride** is the most perfect grinding substance known. It is just as much harder than emery as emery is harder than ordinary chalk. A grinding wheel made entirely of pulverized South African diamonds would not grind one bit better or faster than the genuine **Alectride** wheels which we furnish with this superb machine.

Alectride is manufactured in the most terrific heat which man has ever been able to produce. A heat so great that it will actually burn up a common brick like so much gunpowder. And in this incomparable heat is produced **Alectride**. **It is the heat in which the worlds were formed.** Every one of the beautiful iridescent, needle-like crystals is so hard that it will actually scratch the diamond itself. It is these crystals which are crushed up and made into the grinding wheels. It is these inconceivably hard and sharp crystals which cut through the hardest steel more easily than the finest emery wheel will cut through soft copper.

SAVES TIME—EFFORT—MONEY!

You can do the same work in two minutes on an **Alectride** wheel that would take you at least half an hour on a grindstone, and do it better. **And you can operate the Harman Special Farm Tool Grinder for half an hour with less effort than would be required in running a grindstone for two minutes.** **Alectride** will grind 25 times faster than a grindstone and 8 times faster than an emery wheel.

We want to prove these things to you at our expense. We want to send you the Harman Special Tool Grinder for a ten days' trial right on your own farm. See for yourself how it will grind and sharpen every tool on your farm. See for yourself that it is time to throw away the grindstone. Send the free coupon for our free booklet describing this wonderful **Alectride**. **Mail Coupon Today!**

LASTING—BINDING—GUARANTEE

Alectride wheels are so much harder than the hardest steel that no amount of grinding seems to have the slightest effect on them. **Alectride** will cut the biggest steel file you have in two in five seconds. We give a lasting, binding guarantee with our tool grinder.

Alectride will NOT draw the temper from the steel!

Alectride wheels will not wear in spots or become lop-sided. They will not glaze over. They are not only hard, but they are equally hard throughout. There are no soft spots in an **Alectride** wheel. **Alectride** wheels will not draw the temper of the finest tool. The reason for this is that **Alectride** does not heat the article which is being ground as does an emery wheel or grindstone. **Alectride** cuts and cuts quickly—it cuts so quickly that the steel does not have time to heat.



10 MACHINES IN 1

1. One Sickle Grinding Wheel (Improved)
2. One Fine Grinding Wheel (Improved)
3. One Coarse Grinding Wheel (Improved)
4. One Harman Special Oil Stone (Improved)
5. One Saw Gummer (Improved)
6. One Sickle Holding Attachment
7. One Scythe Stone (New)
8. One Harman Special Razor Hone (New)
9. One Disc Grinding Attachment (New)
10. One Tool Rest.

THOUSANDS IN USE

Read These Letters of Praise

HARMAN GRINDER RECOMMENDED BY GOVERNMENT OFFICIALS

Supt. of Indian School Adds His Praises to That of Thousands of Farmers All Over the Country

Department of the Interior, U. S. Indian Service, Wapeton Indian School, Wapeton, N. D.

HARMAN SUPPLY CO., Chicago.

Sirs: The tool grinder shipped to this school has given good satisfaction and appears to be as guaranteed by you. I am enclosing photograph of the school and buildings, and you may use same and recommendation as you desire. Very respectfully,

W. C. RANDOLPH,
Supt. and Spl. Dist. Agt.

Government Recommendation means something.

The Harman Grinder was first tested carefully, approved and purchased. Now, after it has been used and proved its worth in hard everyday grinding and polishing and has been approved by officials who are slow to praise unless they KNOW—don't you think that you should at least TRY this grinder when you can do so at no expense to yourself and no risk? The grinder MUST make good to your entire satisfaction or we want you to send it back. Write for the grinder today and see how much money it will save on YOUR farm.

Most Useful Machine on Farm

I must say the grinder is far ahead of anything I expected it to be. No more hand power grinders for me. When I want to sharpen anything I go and do it without chasing up the second party to turn the stone. Not being used to sharp tools, three of my family have slight mementos on their fingers and I touched myself slightly this afternoon. My boy calls it "Pop's" bicycle. Very true that statement that you can use it 365 days a year. I gummed a cross-cut, sharpened some knives and a hatchet. I am satisfied that it is the most useful tool or equal to any tool the farmer or anybody else has on his place.

C. J. DOYLE,
Orchard Farm, Westfield, Mass.

If Farmers Knew, All Would Buy

I don't think any farmer would be without one of your grinders on his farm after he has an opportunity to try one. I think it is the best machine of the kind I ever saw. The Hone that I received with my machine is the best stone I ever used, and I have used a great many different kinds. I have tried nearly everything that needs sharpening on a farm on this grinder and it has proven satisfactory in every case.

EMRY BUNNELL,
R. R. No. 1, Nevada, Ohio.

Beats Anything I Ever Saw

Your Grinder is just what every man that has tools to grind should have. I am well satisfied with the grinder. It beats any grinder I ever saw or used. Enclosed find check to pay for grinder.

EBER DORIN,
R. F. D. No. 3, Ossian, Ia.

Seven Days Enough to Prove Worth

I have had the grinder just seven days and that is enough to show me that it is more than you say it is, and I have tried it on everything that I could, and it beats the old grindstone all hollow, and I think you will make more sales around here, as there has been quite a few of my neighbors who have seen my grinder work.

BERT LEWIS,
Box 20, Larchwood, Iowa.

Would Not Take Twice Price

After ten days' free trial with your Grinder I can say that I am well pleased with it and would not take more than twice the price for it if I could not get another like it.

V. W. MAXSON,
West Point, Miss.

Another Man Who Knows a Good Grinder

I received your Grinder the 15th and have given it a thorough test. It is much better than I expected, which is enough to say I am well pleased with it. I would not sell it for double the cost and do without one.

R. B. COLEMAN,
Berryville, Va.

SEND THIS FREE Coupon

Remember, Ten Days' FREE Trial!

Send the Coupon Today and get our Grinding Tool Catalog FREE! Also our free booklet explaining all about **Alectride**, the newest and most wonderful substance known.

Don't wait a minute. Send the free coupon today and post yourself on this wonderful offer. Learn all about the Harman Special **Alectride** Farm Tool Grinder. Sharpen every dull tool on your place positively free. **We let you keep the machine for 10 days, and then if you wish, send it back at our expense.** But mail the coupon today and get our free booklets and circulars, and get our **FREE** trial request blank. There is no obligation. You will be amazed at the wonderful results you will get from using **Alectride**. Anything you sharpen is sharpened better and quicker. Send for our free booklets today. Let us tell you what **Alectride** is and what it will do with every tool on your farm. Get our free booklets and our special limited offer. Remember, 10 days' free trial. **Send free coupon NOW.**

HARMAN SUPPLY CO., 160 Harrison St. CHICAGO, Dept. 3981

HARMAN SUPPLY CO.,
Dept. 3981, 160 Harrison St., Chicago, Ill.

Without any obligations on me please send me **FREE** your catalog explaining your **Alectride** Special Farm Tool Grinder, also full particulars of your ten days' **FREE** Trial Offer, also the interesting story of **Alectride**.

Name.....

Address.....

No Letter Is Necessary; Just Send the Coupon.