

KANSAS FARMER

FOR THE IMPROVEMENT

OF THE FARM AND HOME

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ORGANIZED AGRICULTURE

Leaders in Progress. Agriculture Assemble in Annual Meeting

In a certain sense every farmer is the competitor of every other farmer. He raises the same kinds of grain, live stock, poultry and orchard products, and sells them in the same market. Unless his products are better than those of his neighbors or are prepared with more care, he receives the same prices.

The farmer lives an isolated life. His time and attention are occupied with the management of his great manufacturing machine. He has ample time for thought and is a keen thinker. He desires information and is an earnest student both of the conditions with which nature surrounds him and of the facts which are presented to him by others.

These facts have made for the general benefit of the individual farmer, but have prevented his close association with his fellows in organizations for their mutual good. Business men in the cities have their organizations for mutual benefit, as do the laborers their unions. Farmers, however, do not organize in this way for business purposes, though they do organize in a better and more helpful way for their mutual advantage. Farmers' clubs, institutes and other organizations of this character have proved their value and have secured a permanent place in the economy of farm life. As the county fair serves as the trying out place for the good animals of the vicinity and thus develops possible competitors in the state fair, and as the corn club brings forth the best products of the field in the local neighborhood to stand for possible prize winners in the state corn show, so the farmers' institutes develop an interest which causes the more progressive men to assemble once a year at the great annual meetings that are held in the capital city.

The two most important meetings which occupy the Farmers' Week in Topeka are those of the Kansas Improved Stock Breeders' Association and the State Board of Agriculture, though later there have been added to these older institutions in the makeup of the great school of instruction which finds place in the second week of January each year, other associations of growing importance. The meetings of the Kansas State Board of Agriculture are fixed by law and are looked forward to as the great event of the year by the citizens of this and other states. A custom of twenty-one years' standing has fixed the meeting of the Kansas Improved Stock Breeders' Association during the same week.

The week opened with a program offered by the Kansas Improved Stock Breeders' Association, whose first session was held on Monday, January 9, at 2 p. m. This meeting was characterized by the best program and the largest attendance that this association has enjoyed for many years. The program was particularly strong and covered a wide field of interest to its members and to the people of the state.

The farmers of Kansas have been winning the cream of the richness of their soil for years past in the belief that the fertility was inexhaustible. They have proved that their soil was richer than most soils in any part of the earth. They are still proving this as the returns from their fields are gathered in at the harvest

time. They have also learned that the soil fertility is not inexhaustible and that constant cropping will deplete its resources. They have learned a valuable lesson that he who takes from the soil of its wealth must return to it of the materials for such wealth. A knowledge of this fact has developed a change in methods and where once was found great areas of wheat and other grains, may now be seen fields under cultivation in systems of rotation of crops. This has been a distinct step in advance and for the betterment of the state and the individual, but it has developed a further fact that rotation alone will not increase or even conserve the fertility of the soil for any lengthy period. A knowledge of these facts has turned attention to live stock farming, without which there can be no permanent success in the field of economic agricultural endeavor.

Originally, Kansas was a live stock state. When the first white man set foot on its broad grassy plains it was literally covered with great herds of buffalo, elk, deer and other "cattle." Its bounteous growth of nutritious wild grasses furnished an ideal pasture ground for these wild animals, and suggested to the settlers that cattle should be their legitimate successors. This idea when expanded developed the enormous range cattle industry for which this state was once famous, and this in turn was the foundation for a newer and greater growth in its later years. With the increased value of land came the necessity for improved working tools and the old range steer gave place to the pure bred in whose wake followed pure animals of other breeds and classes, until now Kansas is noted for the number and quality of its herds, flocks and studs.

The Kansas Improved Stock Breeders Association is composed of the men who have been leaders in this newer and better form of live stock husbandry. Their annual meetings are important events, and are characterized by an expression of the best thoughts of the best men. The program of this meeting was full of meat, and every paper presented had a special interest and value. Perhaps a few of those that were given stand out in greater prominence because of their timely subjects and methods of treatment.

Great interest centered around the discussion of the anti-hog cholera serum treatment as outlined in the paper presented by Dr. E. F. Kubin of the Agricultural College. Since the first development of the modern hog, farmers and breeders have been handicapped by the ravages of hog cholera. Remedies and preventives innumerable have been discovered and placed upon the market, with universal failure of results. After a thorough test by the United States Department of Agriculture and the experiment stations of the different states, among which Kansas has been the leader, the anti-hog cholera serum has been proved a sure preventive. It is no wonder that hog breeders as well as general farmers were interested in knowing more about this new discovery and in having it made more readily available to those who need it. The association placed on record some resolutions in which the Legislature was requested to modify existing laws so as to meet the requirements of the times.

When President H. J. Waters of the Agricultural College arose to deliver his address on the question, "Shall the American Farmer Become a Meat Packer?" he was greeted by the largest audience that had assembled at any one of the meetings during the entire week, and one of the largest audiences that was ever present at any meeting of either of these bodies. This audience was representative and was composed of men from all parts of the state and from other states. The subject was most ably handled and was especially timely as the ever present question of the high cost of living still presses for solution, and the question of curing meats on the home farm offers one means of its solution. This paper will appear in KANSAS FARMER. Its presentation was followed by a meat cutting demonstration given by Prof. T. G. Paterson, which served to open the eyes of very many people and to add new information to that possessed by others.

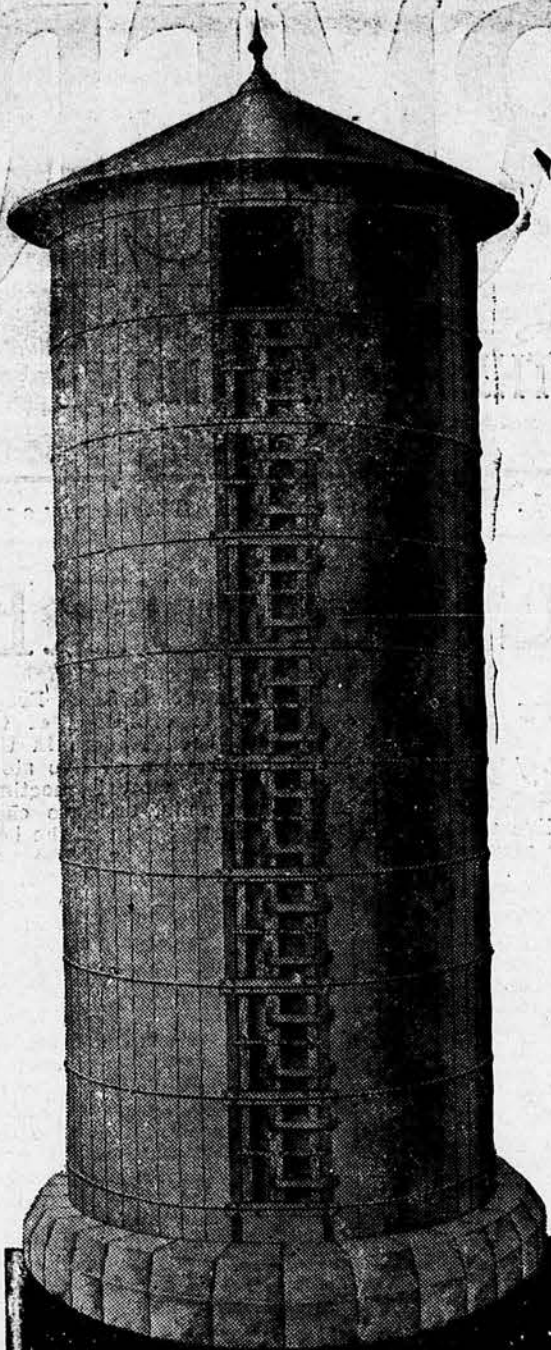
The swine breeders occupied one entire session which was full of interest to them and to all farmers. The beef breeders and feeders were given an entire session, much to their profit and advantage, and one of the questions under discussion was the use of ensilage in beef making, which is comparatively new in this section of the country. Horses always have a prominent place on the program of the association, and the evening session devoted especially to their interests was voted one of the most satisfactory that has been enjoyed by the members. The program has been published in full and the papers presented at the meeting will appear

(Continued on page 23.)

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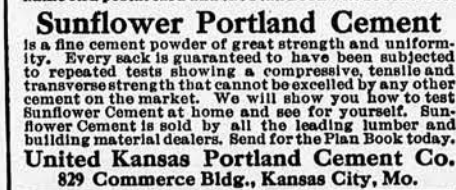
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KANSAS FARMER

EDITORIAL

STOCK BREEDERS' RESOLUTIONS.

The Kansas Improved Stock Breeders Association passed a number of very important resolutions at its recent meetings. Among these was one favoring the establishment of an anti-hog cholera serum laboratory at the Agricultural College to the end that the serum may be manufactured in sufficient quantities to meet any emergency. They also recommended that this serum be distributed by the state veterinarian, his assistants or any properly qualified veterinarian at the actual cost of manufacture.

Another resolution favored the appropriation, by the Legislature, of such moneys as were asked for by the Board of Regents of the State Agricultural College for the expenses and growth of that institution and the Experiment Station.

Under another resolution the modification of our present laws was asked for in order that agriculture may have a fitting place in the course of study of our county and Barnes high schools.

The raising of the appropriations from \$200 to \$500 per year for the benefit of the county fairs was recommended. Also the enactment of strict inspection laws providing that every animal sold for breeding purposes shall be accompanied by a certificate of health by the state veterinarian.

Thanks were expressed to the Kansas State Fair Association for assistance rendered in the conduct of the present meeting, to the Topeka Commercial Club for courtesies received, and to the various speakers for their splendid addresses. A rising vote was taken in expression of thanks to the officers of the association for their work of the past year and for the splendid program of this meeting which was pronounced the best in its history.

The appropriation of a fund for state fair purposes to be divided equally between Topeka and Hutchinson was recommended.

During the recent meeting of the Kansas Improved Stock Breeders Association there was a large number of men present who were seeking information which would help them in the organization or conduct of county fairs. This is a good sign and is one of the results of holding good state fairs in this state. The county fair is the district school; the state fair is the high school and the International and American Royal are the universities of the great educational system which teaches by object lessons. The old time fairs are no more at in their stead have come the newer, more modern institutions whose objects are educational. The amusement features are still necessary, and no fair would be complete without them, but they must be clean and they must not dominate the show. Fairs nowadays are evenly balanced with live stock, farm, garden and orchard products as prominent features. With these and supplementing them must be farm machinery and implements of all kinds which serve to teach methods. Craft and other kinds of handiwork have their places as do the things which amuse. The whole thing must be so evenly balanced as to produce an harmonious whole and to be of educational value as well as of amusing interest. Such a county fair sifts out the best in the local community as the state fair does for the state and the larger expositions for the nation. To have been a winner in any one of these is a thing to remember and a prize added to the education received.

One of the best papers presented at the recent meeting of the Kansas Improved Stock Breeders Association was read by a man who sold during the past season, \$20,000 worth of hogs. This man has no hard luck stories to tell and has not been bothered with cholera in his herd. He simply raises hogs, and, incidentally, makes money. The one thing which impressed his hearers more than any other, perhaps, was the care with which he did everything. His success in hog raising as well as his immunity from losses through cholera and other diseases was due to the thought, the energy, the skill and the care which he put into it.

With which is combined FARMER'S ADVOCATE, established 1877.
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THE NATIONAL CORN SHOW.

The fourth annual National Corn Exposition will be opened in the State Fair buildings at Columbus, Ohio, on Monday, January 30, with representative exhibits from 35 states and territories and the National Department of Agriculture.

Although still called a corn exposition it includes exhibits of all kinds of grains and grasses. Everything on exhibition here will have been a prize winner at some state corn show, state fair or other recognized state institution authorized to award prizes. Twenty-five agricultural colleges and experiment stations will make exhibits of their own and a number of national and state associations will hold meetings at the same time. The American Breeders' Association, the National Rural Life Conference, and a number of Ohio dairy, live stock, corn breeders and other associations are included. The programs of the various meetings include the names of some of the most noted speakers of the country.

Altogether this promises to be one of the largest and most interesting meetings ever held in this country.

In speaking of the somewhat remarkable fact that Iowa is the only state in the Union which showed a decrease in population in the last decade the director of the census says: "Particularly remarkable are the agricultural statistics for Iowa in comparison with the population statistics. Despite a considerable decrease in the rural population, the value of farms (including buildings) increased during the ten years no less than 117.3 per cent. The average value of farm land per acre increased about two and one-third times during this short period. Every one knows that the farmers in this north central section have been growing rich, that their homes are more comfortable, and that they have more conveniences than ever before. Why, then, is the rural population decreasing? Perhaps it may be that this very prosperity of the farmers accounts for the decline in population. With the higher prices which they have re-

ceived for their products, they could afford to buy better machinery, which reduced the need for labor. Again, it is likely that many farmers have felt unwilling to divide up their land among their sons, reducing each of them to a smaller farm than his father had enjoyed; instead they have been able, by reason of their prosperity, to send their sons to newly opened agricultural territory in the west or southwest or Canada, and furnish them the means to start for themselves on a larger scale than would have been possible at home. In fact, not a few owners of farms in this middle west country have leased them to tenants and themselves gone where they could get more land at a low price. Yet again, prosperous farmers often move into the towns in order to have better facilities for educating their children."

Now is a good time to plan for the operations of the next growing season, and in doing this it might pay to consider the waste places of the farm. One of these places is the bare hillside which is too frequently a waste place because it is not suitable for pasture or for cultivation. In many such places trees will grow, and when this is the case the ground may be used for fruit trees if not too steep or for forest trees if not available for orchard. In either case a value can be secured from that on which one pays taxes without return while the mere presence of the trees will add to the value of the farm by their beauty and by covering a bare and unsightly hillside.

The Department of Agriculture knows what is good for us. This has been shown in many ways and generally its work has been appreciated. But now comes the announcement that this great Department is turning its engines of war against the mistletoe of poetry and romance. The mistletoe is a thing of beauty and of sacred memory, especially at Christmastide, and yet it is a parasite and as such is destructive of timber growth. For this reason it is doomed to be swatted.

HAS READ KANSAS FARMER 41 YEARS.

My first subscription to KANSAS FARMER was in 1869 and my first contribution to its columns was in 1872. The first few volumes of KANSAS FARMER I had bound. This was while it was yet a monthly. Then came the change to its weekly form and how I did enjoy it. During these earlier years I was living in Marion county, Kansas, but in 1897 I removed to Lima, Ohio. Although off the farm I could not give up the good old KANSAS FARMER. In 1906 I received severe injuries in a railroad wreck from which I have never fully recovered. Since that time I have not written much. Later, I moved to Snohomish, Wash., and am now living among my friends at this place. I am now 74 years of age and my writing may not be as vigorous as it once was but I say all honor to the "old reliable" KANSAS FARMER and success to it and its managers.—J. B. Dobbs, Amherst, S. Dak.

ANTI-HOG CHOLERA SERUM LAW.

The House of Representatives has just passed an emergency measure appropriating \$3,000 for immediate use in the equipment of an anti-hog cholera serum laboratory at the State Agricultural College. This is much to the credit of the House and this early action was brought about by the urgency of KANSAS FARMER and the Kansas Improved Stock Breeders Association in pressing this matter. Heretofore it has been impossible to cope with this dreaded disease because of the fact that there were no funds available with which to equip a laboratory for the manufacture of the serum. The state veterinarian has been doing the best he could by borrowing from the apparatus belonging to the Agricultural College, and this bill, if it should pass the Senate also and receive the Governor's approval, will serve to afford protection to the farmers of the state in a way that has not been possible heretofore. Kansas takes pride in the fact that the state veterinarian, with his inefficient equipment and his lack of funds has been able to do as much as he has done, and to furnish the serum to hog owners at the small price of 30 cents a dose. There are only one or two other states in the Union that supply this serum at so small a price, and most of them charge 50 cents per dose. This price simply covers the cost of manufacture and it is to be hoped that some suitable law will be passed by the present Legislature which will provide for the manufacture of the serum in ample quantities to meet any emergency; for the making of this serum readily and quickly available to the owners of diseased herds, and for permitting any properly qualified veterinarian to administer it after he receives it from the state veterinarian. Farmers over the state are urged to consult with their representatives in the Legislature in order that a satisfactory law covering this whole question may be passed for the protection of the owners of swine during the ensuing two years.

The meat club is a popular thing in many communities and would seem to be worthy of attention in others. During the busy season when work is hardest, the farmer and his men get tired of cured meats as a steady diet. The hard physical work demands a meat diet and this is supplied from cured meats on hand or by special and infrequent trips to town. By organizing a meat club the farmers can kill their animals and have fresh meat during the season when it is most needed and at the same time save a very considerable item in living expenses. Even if an experienced butcher is employed the saving is still great in addition to the satisfaction of having fresh meat on the table. An ice house would help out in this matter very greatly and now is a good time to build it.

According to reports received by the United States Geological Survey from coal-mine operators and others familiar with the industry, the production of coal in the United States during 1910 was between 475,000,000 and 485,000,000 short tons, a considerable increase from the output of 459,715,704 short tons in 1909 and approximately within 1 per cent of the maximum previous record of 480,363,424 tons, produced in 1907.

One more Indian reservation is about to be opened to settlement, and this is one of the last. Our great empire of land, than which no country can boast a finer, is now occupied and it is only by opening Indian reservations and by reclamation projects that the government can dole out bits to the land hungry. While the Colville reservation in Washington will provide about 300,000 acres for the Indians who own it and leave 1,100,000 acres for the homeseekers, it will only be a small thing as compared with the demand. The future for the American farmer does not hold in store any great amount of free land or cheap land, but it does hold immense possibilities in the way of better tillage and larger yields from the land he now owns.

THE SILO IN BEEF PRODUCTION

Better Cattle, Better Soil, Better Crops, More Money

By L. H. PAUL, Des Moines, Iowa

In advocating any change it is well for the person advocating such change to be able to give some reason for the same. We hear this complaint all along the line, that human food products are too high, and the farmers or producers claim that they are not making a fair profit on their investments, at present prices. This certainly shows that either the present method of production is too high, or the present method of preparing and distributing is too expensive. And at meetings of this kind we should get together and try to eliminate these expensive features and to get the business of producing food on such a basis that the consumer can afford to use our products and the producer be able to still get a fair compensation on capital invested and for labor done. Times have changed since our forefathers roamed over these broad plains, hunting deer with their musket on their arms, and the powder in their flask.

They say that the girls hunt deers, with nothing on their arms, but powder on their faces. Conditions have changed since this land was selling at \$5 per acre, and corn was selling at 10 cents per bushel, and in every case changed conditions demand different methods. The boy who buys out his brother's and sister's interest in the old homestead at \$100 per acre today, is confronted by a different proposition than his father was when he bought out his brother and sister twenty years ago at \$10 per acre, and the only way for him to make this difference of \$90 per acre is to make it from the things that his father and grandfather wasted. The young man of today must have a better reason for doing things than to say, "That is the way my father and grandfather did, and what is good enough for them is good enough for me."

The great question confronting the people of the world today is the present high price of human food, and I have been asked to confine my talk to the question of producing beef. Beef men are beginning to realize that the cow that will bring a good calf and produce from \$40 to \$75 worth of butter-fat in a year will come nearer paying out under new conditions and old methods than will a steer. As to the reasons of high cost of food there are two principal ones. First, the business of growing food for the human family is not in the hands of business men. We farmers are not business men and do not conduct our farms on business principles. The other reason is that what teaching we have had in the past has been along the wrong lines. We have always been taught to grow the stuff that will bring the high dollar, while very little attention has been paid to the question of the cost of production. We have hundreds of better breeding associations with never a single cheaper feeding association. Whole columns have been printed about the fine quality, the finish and the bloom of the car loads of cattle shown at the fat stock shows, while we have never yet noticed a single statement in regard to the cost of growing these cattle. If I were conducting a fat stock show every steer shown for a premium would have to have with him a tabulated statement of all the food he had consumed, its cost, and all the time that had been put in in caring for him, and any steer that would not sell for enough in the open market to pay this expense and leave a margin of profit would be ruled out. Thousands of dollars in money and years of time have been spent in demonstrating that it is possible to make

a steer weigh 1,200 pounds at 12 months old, and the question confronting the consumer today is, "How am I going to get a piece of meat to boil for my next Sunday's dinner at a price which I can afford to pay?" We have been taught all these years to grow loins on our cattle and the world is suffering for soup bones today. I went into a market in Des Moines, Iowa, a few days ago and asked for a soup bone. I was told that I would have to order it two or three days ahead. There were several pounds of loins in sight at that time. You are constantly being told to grow the stuff that will bring more money. What the consumer wants is something that will sell for less money. It is up to you, the men who are breeding beef cattle, to show the farmers that there is a cheaper way of growing beef than to grow it on corn, or you will have to go out of the business and the dairy cattle breeders will be selling the breeding stock.

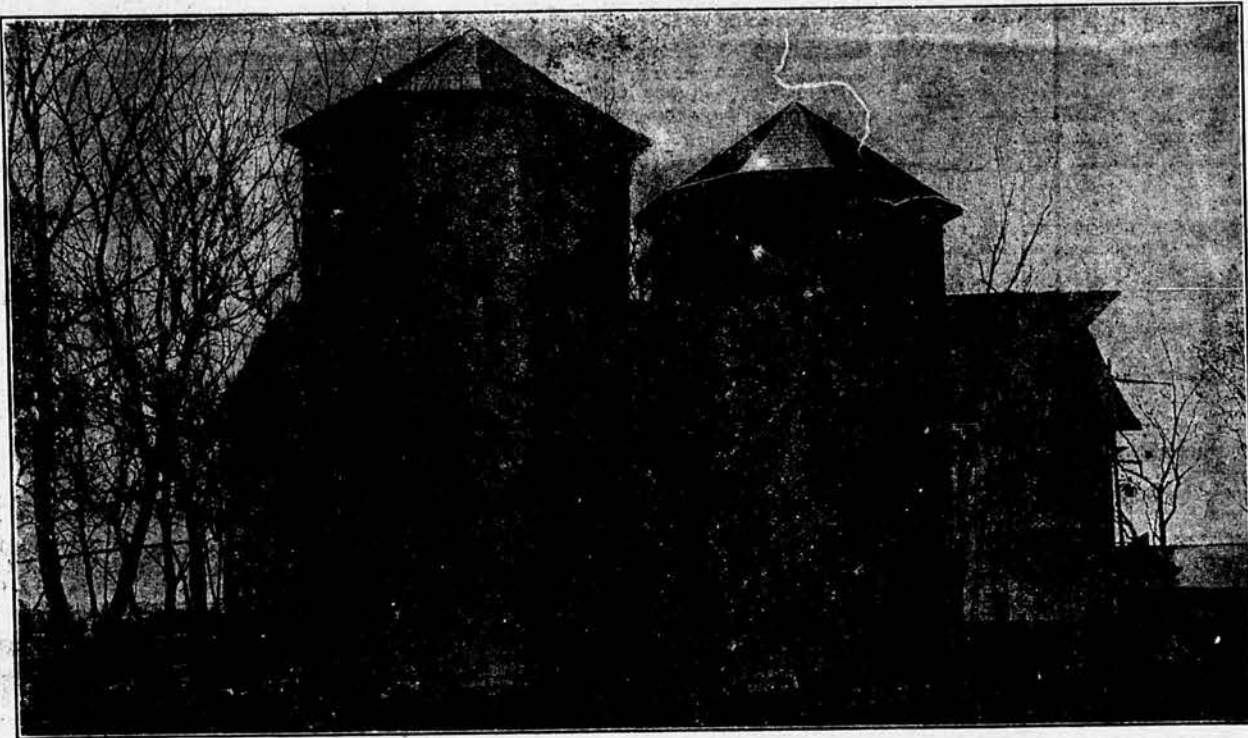
Do not think that the people will always eat beef and meat regardless of price, because it has been shown

that in every case where any product became too high that a substitute has been found; and when the people learn that one quart of milk is worth as much for human food as a pound of beefsteak, then the consumption of beef will decrease. And it is up to you, the men who are breeding dairy cattle, to show the people that butter can be produced for less than 36 cents per pound, or in a few years butter will hold about the same place among the food products that an automobile does among the vehicles. A ride in an automobile is called a "joy ride," and if butter keeps on going up, to swallow a piece of bread covered with butter will be called a "joy slide." You men who are breeding dairy cattle may get legislation against oleomargarine through every Legislature and through every Congress, but as long as butter is selling for 36 cents per pound it will not have any more effect on the use of oleomargarine than you would have on the Niagara Falls if you tried to dam them up with a straw hat. There is only one way that this question

can be settled and that is to make butter cheap enough so that people will eat it. People do not want to eat substitutes for butter but it is fast getting to the point where they will either have to eat oleo or swallow their bread without grease. We have in the west fewer cows today than several thousand that we had a few years ago. We also have fewer hogs. This is a logical working out of the methods advocated in past years by the agricultural educators of the country. We have been taught to consider our steers as so many factories that we keep on our farms for the purpose of working the rough products of our farms into something that we can sell. This being the case good business sense would dictate that any factory to pay its best dividend should be run to its fullest capacity every day, if raw material does not cost too much. If raw material does cost too much it is good business to close up the factory. That is the reason that there are fewer cows in the west today than there were a few years ago—simply because raw material has been too high and they have closed up the milk factories. Thousands of carloads of young hogs have been sent to market in the past two years, weighing 125 pounds each, that should have weighed 300 pounds. Raw material was too high and they closed up the pork factories. There has been a heavy decrease in the number of fat cattle for the same reason, corn has been too high and the beef factories have been closed up.

For several years we have made a special study of this question of cheaper raw material, and the question is being solved in every case where silage feed is being used. I am not going to keep you to tell you all the good things that a silo will do for you on a farm. I will make you a few statements that are called very moderate by those who know. First, money invested in a silo will pay 10 per cent on the investment the first year. Ten acres of good corn in a silo will make more feed and better feed than 40 acres of hay. In corn put into a silo the stalks are worth more for feed than the ears are worth in a corn crib, and the ears are worth more in a silo than they are in a corn crib. Beef that is costing ten cents per pound to produce today from dry feed can be produced on the silage feed at 5 cents per pound. I have been able to get the figures for Kansas, but the Iowa corn crop this year is estimated at 348,000,000 bushels. This at 40 cents per bushel would be \$139,327,200. Now if my statement is right that it is possible to make the stalks from the Iowa corn field worth another \$139,000,000, would not the world at large be highly benefited? All the agricultural educators in the country should turn their attention to teaching the Iowa farmers to save this \$139,000,000 which in the past has been practically a waste product and turn the same into beef, milk, butter and other necessities and comforts of life? With this \$139,000,000 properly saved and turned into money we could put a \$500 silo on each one of the 189,000 farms in Iowa, put a \$150 silage cutter on each farm and have money enough left to pay for the automobiles in Kansas.

I would like to have each one of you take up this question of silage feed as a business proposition, and we are satisfied that you will find that it is not a question of whether you can afford to feed silage feed or not, but it is a question of whether you can afford to continue to feed the way under present conditions.



SILOS BRING JUNE PASTURE INTO THE WINTER, SAVE LABOR AND CONSERVE FERTILITY.

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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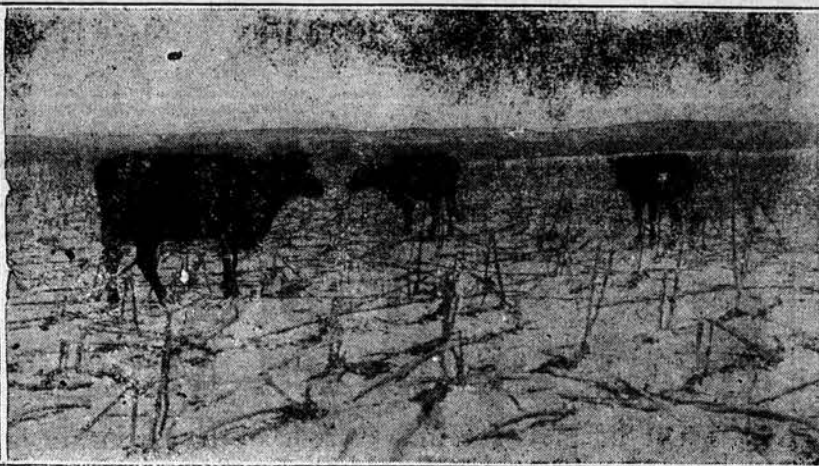
Subscription Dept., KANSAS FARMER

TOPEKA, KANSAS

SILO THE CROP AND SAVE IT ALL



OLD WAY OF FEEDING CORN FODDER. A SILO WOULD PREVENT THIS.



OLD WAY OF FEEDING IS AN INHUMAN TREATMENT OF STOCK.

The popularity of silage as a food stuff rests primarily upon its use for dairy cattle. Numerous experiments have shown its economy and effectiveness for milk production, and it was first used for this purpose. There has been some controversy over the effect of silage on the flavor of milk. It is undoubtedly true that poor silage from badly constructed silos will taint the milk. On the other hand, good silages improves the quality of milk. This is especially true as compared with weedy or mildewy hay.

In one experiment it was shown that of the 372 tests made, 223, or 60 per cent, preferred silage milk; 40, or 11 per cent, had no choice; and 109, or 29 per cent, preferred the non-silage milk. The people who chose the non-silage milk were, as a rule, those who do not drink milk, hence their opinion is not so important as that of the people who consume milk freely. Samples of silage and non-silage milk were sent to five milk experts in Chicago and other cities, each accompanied by a letter asking the same three questions. One of these experts had no choice, one decided in favor of the non-silage milk, and three preferred the silage milk.

H. B. Gurler, of DeKalb, Ill., one of the most progressive dairymen of the state, has been producing certified milk for the last ten years and selling it in Chicago at 12 cents a quart. All of this time Mr. Gurler has been feeding silage to his cows, excepting during the season of the year when pasture was abundant; and with the best results. This is strong evidence that the silage is of good quality and used in reasonable amounts, in connection with other feed, it is one of the best feeds obtainable for dairy cows when pasture is not available. It must be remembered that in all of his work nothing but good silage was fed, and no spoiled silage was allowed to accumulate in or around the silo. When silage imparts a bad or disagreeable flavor to milk produced from it, almost invariably the cause is that the silage has not been fed properly or that spoiled silage has been used. It should be understood, however, that all feeds of this nature should be fed after milking and not before, to avoid the possibility of producing an unpleasant flavor in the milk. The Helvetia Milk Condensing Company advocates the use of silage in the production of milk for condensing. For such milk it is of the utmost importance that there shall be no bad flavors. This is positive evidence of the fact that the company finds no injury to the flavor of milk by the use of good silage in ordinary farm practice.

To present results obtained from the use of silos, herd records of several farms were collected by the Mississippi Station in cooperation with the Dairy Division of the Department of Agriculture at Washington. All cows in the test had practically the same ration in May, June and July, i. e., pasture supplemented with cottonseed meal. During November, December and January seven herds, containing a total of 247 cows, were fed dry ration, principally hulls and cottonseed meal, with some bran, shorts and alfalfa, while the eighth herd of cows was fed corn silage and cottonseed meal. The result is shown in the first table following. During the winter and spring of 1904 the Ohio Station conducted an experiment with ten dairy cows, representing five breeds, to determine the effect of feeding more silage than usually is fed by dairymen, with a corresponding reduction in the grain portion of the ration, upon the production of milk, butter-fat, gain in live weight, cost of the ration, and consequent profit. The general plan of the experiment was to compare two rations that should carry as nearly as possible the same amount of dry matter and nutrients. In one ration these nutrients were to be derived largely from roughage, mainly silage; in the other no silage was to be fed, and as little roughage as seemed wise, the bulk of the nutrients being derived from concen-

Double the Production and Value of Fields Without Increasing the Cost

CHARLES J. DILLON, K. S. A. C.

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THE SILO—A NECESSITY

The Kansas farmer must come to the silo. Its use by him is inevitable. He can't get away from it. Within ten years this contention will be proven.

The farms of Kansas must carry more live stock. Continued market grain growing will bankrupt the farmer and his soil in this as in other states. Successful growing of live stock necessitates better feeding and greater economy in feeding.

Animal husbandry is the profitable side of farming. As land values increase live stock must meet the demand for a greater revenue from the soil. More live stock is an economy in the production of the world's food supply rapidly being forced upon us.

Through live stock we market our products at home. We save all the expense of transportation and of merchandising in feed stuffs—that's a good profit. Live stock husbandry gives us year-around employment—converting idle time during the winter season into profitable employment. We grow for live stock feed crops which do not exhaust the soil's fertility as do grains for the market. Cattle, horses, hogs and sheep grow nights and Sundays, every day in the year.

Every portion of our state will every year grow feed abundantly. A portion of the state will only occasionally grow grains for market in profitable yields. The harvesting and feeding and proper utilization of forage crops must in certain sections maintain our farmers.

The silo is the one farm building needed to successfully bring together our feed crops and live stock and complete a trio which will increase our already existing prosperity. The man who has a silo admits it. His testimony should be conclusive. Other states have found the silo indispensable. Let us profit by the experience of neighboring farmers. To lean by our own experience is unnecessarily expensive.

Within the last sixty days I have traversed every part of the great state of Kansas. In every section—and this has not been an exceptional growing season—is a sufficient quantity of roughage to feed well every hoof of stock in sight. Yet stock is not in thrifty condition. Cows are not giving milk. The young stock is not growing. Yet, before every animal is an abundance—from the quantity standpoint. But, the quality is not in the feed. That appetizing, fat and milk making succulence of the Indian corn stalk, the sorghum and Kafir corn stalk, is not there.

The one constituent of our rough feeds—the one which comes nearer being worth more dollars than all those remaining—we have failed to save. This is succulence. That appetizing condition of the June grass—that of the fresh green, juicy corn stalk—that condition which causes the animal to lay on fat in June, is not an element of the winter feed. It was there. Our short sightedness—our failure to recognize it and take care of it—has caused us to store for winter use, at the best, very poor feed.

The silo preserves this succulence. It preserves Indian corn, Kafir corn, sorghum, Milo maize, for the cow, hog, sheep or horse, as does canning preserve the peach and all its juice and palatability for the king, himself. It makes a ton of roughage in the silo worth three tons outside the silo. Silage is appetizing—it creates appetite—the animal can't resist eating. The animal eats ordinary roughage from sheer necessity—to keep body and soul together. Meat and milk, flesh and bone, grow from what is actually eaten—not from what should be eaten.

With the silo an acre of roughage will feed a greater number of animals. It makes possible four tons per acre of the best feed as against one ton of only fair feed at the best. Silage is convenient for feeding. Three or four days of filling the silo is an incident, only, in the farm work, compared with weeks of haying, cutting corn, stacking sorghum and Kafir corn. The silo helps dispose of the hired man problem.

We plow, plant and cultivate Indian corn and leave in the field almost 40 per cent of its feed value. We go to all the expense of growing other roughage which can be successfully ensiled and in the harvesting throw away nearly 50 per cent of its feed value. We should stop such reckless waste. Build a silo.

The silo is the cheapest farm building we can erect. A silo will house 100 tons of ensilage at a lower cost per ton than will the barn mow protect from the weather 100 tons of any other roughage. We all aspire to having a roomy barn and mow. Why not get the silo first? It will build the barn and mow.—T. A. BORMAN.

trates. The two rations fed carried practically the same amount of dry matter. In one, over 50 per cent of this dry matter was derived from silage. Less than 18 per cent was derived from grain. In the other, over 57 per cent of the dry matter was derived from grain, no silage being fed.

The silage used in this test was a mixture of one ton of soy beans and cow-peas to two and one-half tons of silage corn. There were nearly twice as many soy beans in the mixture as cow-peas. The silage corn was very low in dry matter, owing to an unfavorable season. The silage as fed contained 18.63 per cent of dry matter, 2.36 per cent of protein, 4.68 per cent of crude fiber, and 9.36 per cent of nitrogen-free extract, being richer in protein and poorer in carbohy-

	Average lbs. of milk per cow per month	Average lbs. of butter fat per cow per month
Dry-fed herds.....	375.9	240.4
Silage-fed herds.....	364.9	335.9
Differences	7.0	95.5
	Sum.	Win.
	17.12	12.09
	17.58	16.70
Differences46	4.61

	Average cost of feed per cow per month	Average cost of 1 gallon of milk	Average cost of 1 pound of butter fat
Dry-fed herds.....	\$4.10	\$0.1468	\$0.2993
Silage-fed herds.....	3.50	.0896	.2098
Differences	\$0.60	\$0.0573	\$0.0895

drates than average corn silage on account of the admixture of soy beans and cow-peas.

The figures used in estimating the cost of the different rations were as follows:

Silage, per 100.....	\$0.10
Hay, per 100.....	.36
Stover, per 100.....	.20
Wheat bran, per 100.....	.93
Corn meal, per 100.....	1.00
Oil meal, per 100.....	1.16 1/4
Butter, per lb.....	.25 1/2
Skim-milk, per 100.....	.15

The cows fed the silage ration produced 96.7 pounds of milk and 5.08 pounds of butter-fat per hundred pounds of dry matter; those fed the grain ration produced 81.3 pounds of milk and 3.9 pounds of butter-fat.

The cost of feed per hundred pounds of milk was about 69 cents with the silage ration and \$1.05 with the grain ration. The cost of feed per pound of butter-fat was 13 cents with the silage ration and 22 cents with the grain ration. The average net profit per cow per month (over cost of feed) was \$5.86 with the silage ration and \$2.46 with the grain ration.

Comparing the average daily product of each cow for the entire test with her average daily product for the month previous to the change in ration (or the first month of their test in the case of two cows) the cows fed the silage ration shrank 2.84 per cent in milk and gained 1.89 per cent in butter-fat production. The cows fed the grain ration shrank 9.11 per cent in milk and 14.18 in butter-fat production. Upon the conclusion of the experiment each lot of cows was found to have gained in live weight—the silage fed cows an average of 47 pounds a head; the grain fed cows an average of 57 pounds a head.

(Continued on page 15.)



For Your Protection These Standard Marks

Our business for fifty years has been the making of solid gold and gold-filled watch cases—not the works of a watch, but the case. Our trademarks stamped in a watch case have always meant absolute integrity in assay and bullion value.

When you buy a gold watch from a reliable jeweler the chances are that you get one of our cases. If not, then you probably pay the price of our case and get something else. That is the thing you want to find out.

When a jeweler points to the words stamped inside a case "Guaranteed for 25 years" or "20 years," remember that a guarantee means nothing of itself. Your guide is the integrity of the maker back of the case. Some day there will be a law regulating meaningless guarantees. At present there is nothing to prevent an irresponsible maker from guaranteeing for a period of years a watch case made of base metal and washed with gold.

Every Good jeweler knows our marks and the quality of our cases. They are made for ladies' and men's watches—plain, engine-turned, engraved or enameled. All sizes, all patterns.





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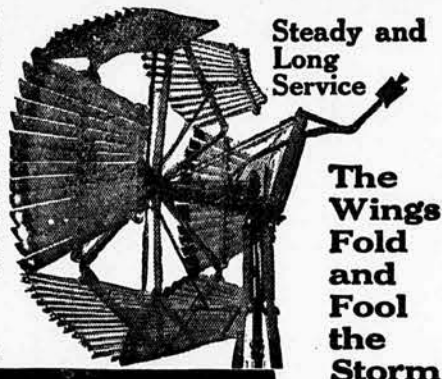
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Every part is built of the very best material. Every mill is tested and inspected by experts before it leaves our factory. You can't go wrong when you choose this mill. Thomas Cripps of Cottage Grove, Wis., who bought one in 1873, writes: "This mill has given me perfect satisfaction. The cyclone, which destroyed thousands of dollars worth of property, had no effect on it."

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Steady and
Long
Service

The
Wings
Fold
and
Fool
the
Storm

Unique Method For Growing Trees

By CHAS. A. SCOTT

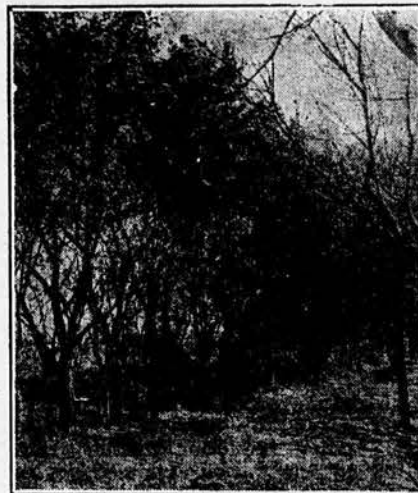
An example of a unique method of growing trees is that found on the farm of Mr. C. V. Stutz, Utica, Kan.

Mr. Stutz is a native of Kentucky and came to Ness county some 22 years ago. After having spent one or two summers in Kansas he came to the conclusion that one of the two things must happen; either he would have to abandon the country or grow trees. He determined upon the latter and at once began to prepare for tree

trees within the limits of this wet weather pond. As a result of this planting he has walnut trees 20 feet in height that last year bore a full crop of nuts. Catalpa trees set out at that time are now 25 feet in height with a stump diameter of over 8 inches, but the most successful tree in this plantation is an Osage orange. The accompanying cut shows the growth the trees have made.

In another dray Mr. Stutz repeated this operation 12 years ago and this time planted cottonwoods and Carolina poplars, which are now fully 50 feet in height and serve as a wind-break for a young orchard set out 6 years ago. There is scarcely a farm in western Kansas on which similar sights cannot be found. Two or three days' work with a team and scraper is all that is necessary to build a dam that will hold much of the run-off water until it has time to soak into the ground. The standing water for the few hours after the rainfall does not in any way injure the trees and when once in the soil provides sufficient moisture to give a normal or maximum rate of growth to the trees. A few small plantings of this kind on every farm will change the general aspect of the landscape and add much to the appearance of the country.

The more durable species may be selected, which in time will provide posts and fuel for farm use; however, like Mr. Stutz, many of the farmers will conclude after the trees have grown that they are entirely too valuable as growing trees to permit them to be cut. Mr. Stutz would no more entertain a thought of cutting one of his trees than he would of taking his gun and going out to shoot some of his live stock. He places a high value on protection and pleasure that they afford.



TWENTY-TWO YEAR OLD OSAGE ORANGE TREES IN NESS CO., KANSAS.

planting operations. In selecting a site he chose a small draw which runs through his farm, built an earth dam across this some four feet in height. Immediately following the first heavy rain that occurred he marked the bounds of the pond thus formed and the following year began planting

Our Great Farm Library Offer

Last winter we offered the readers of KANSAS FARMER what was known as our great Farm Library list of magazines and books. We are again going to offer the greatest bargain in high class periodicals to our readers. We have made arrangements with the publishers of the following magazines and books which enable us to give you, for only \$1.50, the variety of reading matter particularly valuable to every farmer and stock raiser. Our combination this year will consist of the following:

THE KANSAS FARMER
KIMBALL'S DAIRY FARMER
POULTRY STANDARD
KANSAS CITY WEEKLY STAR
PEOPLE'S POPULAR MONTHLY
AMERICAN SWINEHERD
THE PIG FEEDER'S MANUAL

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READING MATTER FOR THE WHOLE FAMILY

KANSAS FARMER—Fifty-two issues per year. The standard agricultural publication of the Southwest. Every copy edited up to the highest point of value to the farmer and stock breeder.

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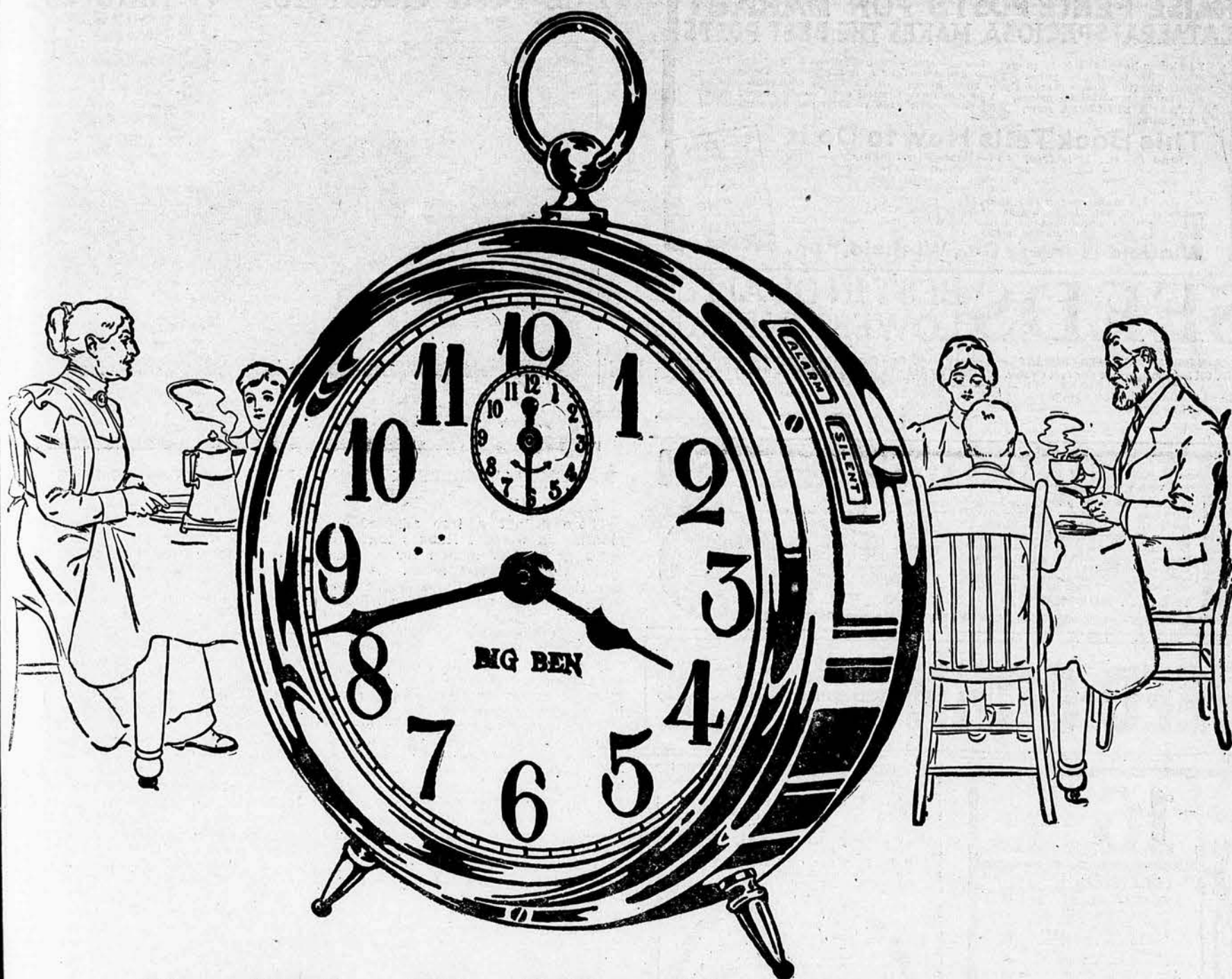
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I'm "The Big Watch" With a "Breakfast Bell"

You'll call me an alarm clock, but people who have used me call me "The Big Watch" for I keep watch-time.

My bell really isn't an "alarm" either, for it doesn't startle you.

I've a *mellow, deep-toned, cheerful* voice. It arouses you *promptly but gradually* with a "Good morning, it's breakfast-time" sort of sound. I don't "go off" like a flock of frightened quail. I never *scared* anybody out of bed in my life. I wake people on the coldest, darkest winter mornings as pleasantly as sunlight does in summer. That's the kind of "alarm clock" I am.

I ring at intervals for fifteen minutes or steadily, as you choose.

"Watch-Care" is the watchword where I'm made. I *must* be watch-accurate as a time-keeper or they won't let me leave the factory. They make me run six solid days and nights—one hundred and forty-four hours—on a rack with eight thousand other clocks

without varying two minutes. If I do vary—back I go to the adjusters.

But that isn't all. I'm taken out of my box in the shipping room just before being sent to your jeweler and *tested right there*, just to make *doubly* sure I'm all right. I tell you it's hard work getting out of that factory, but when I *am* out I'm fit as a fiddle—the Pippin Alarm Clock—if I *do* say it myself.

I *look* like a watch, *act* like a watch, and in many respects am *built* like a watch.

For instance, the heart of your watch is the *escapement*—the part of the watch that makes it tick and on which all its timekeeping quality depends. A watch is just as *good* or *bad* as the escapement. Look at your watch. Its escapement is governed by the balance wheel and the hairspring in exactly the same way as *my* escapement is governed.

Most alarm clocks tick *slowly* and *heavily*. I tick *lightly, evenly* and *fast*—like a watch.

I'm practically *handmade* like a watch,

for of the nine hundred skilled watch and clock makers who work in my factory, eight hundred and fifty do nothing but handwork.

I'm made not only to *get you up in the morning*, but to *keep time* and to *last for years*.

An inner casing of steel makes me strong and *keeps out the dust*. All I ask of you, if you buy me, is that you let your jeweler oil me up every two years or so.

Now that I've told you how I'm made, go to your jeweler's and take a look at me. Note my jovial countenance, my big, plain figures and my triple-plated, non-rustable nickel case. Note that it's a "thin-model" case like the newest watches. *Think over all* these good points and decide, then, if you don't think I'm worth every cent of \$2.50.

If you want to be "first in the field" have me—Big Ben—wake you in the morning. I'm to be found *only* at jewelers. See me today at yours.

BIG BEN

Care of WESTERN CLOCK COMPANY, La Salle, Ill.

"If your jeweler doesn't sell me I'll come express prepaid on receipt of \$2.50."

RAISE FENCE POSTS FOR MARKET CATALPA SPECIOSA MAKES THE BEST POSTS

You know how hard it is to get fence posts; how high priced they are. The same with telephone poles. They grow scarcer and higher each year. We use them five times faster than they grow. In 15 years posts and poles will be at prohibitive prices. You can have a good crop ready if you plant CATALPA SPECIOSA now. You can profit \$100 to \$150 per acre inside of five years.

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Send for it. It is free. Investigate thoroughly Catalpa growing. Find out how and where to get the genuine profit-making kind. It took 20 years to write this book. You can read it in an hour. It will lose you nothing to study it. It will make you many thousands of dollars' profit in a few years if you act on its information. It is worth your having if it does not bring us a cent. We'll take chances on that. So send your name today.

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1000 Onion	100 Parsley
1000 Radish	1500 Rutabaga
100 Tomato	1000 Carrot
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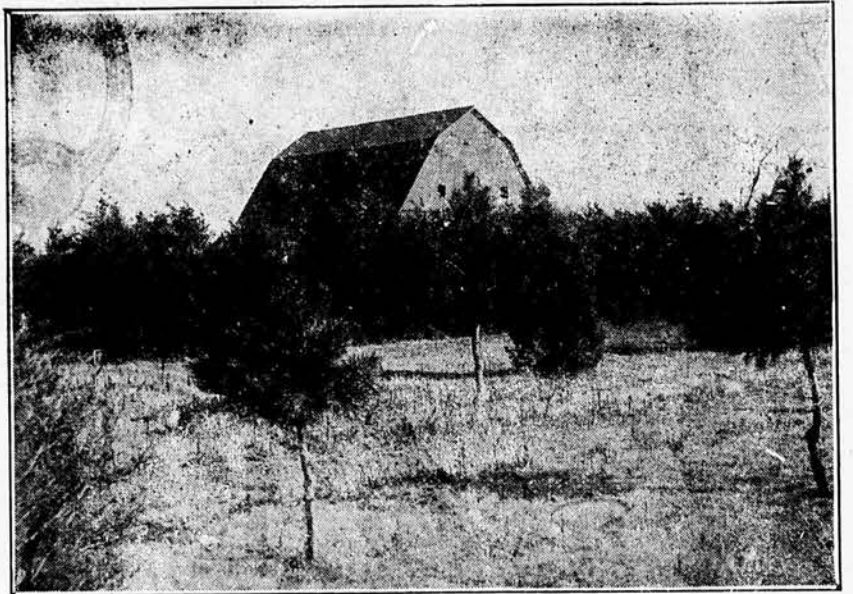
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The Red Cedar for Windbreaks



RED CEDAR WINDBREAK 8 YEARS FROM PLANTING, IN NESS CO., KANSAS.

There is not a tree adapted for planting in western Kansas that provides greater protection for a windbreak than the red cedar. It is a tree that by nature limbs freely from the ground to its tip-most branch and its dense foliage makes a complete barrier to the wind the entire height of the tree.

It will grow under the most adverse conditions and is entirely suitable for planting in any part of the state and in almost any character of soil.

In its natural range of growth it is found growing from the deepest swamps in Florida and Alabama to the most exposed cliffs of the Rocky Mountains. Throughout this range we find the red cedar passing under two or three variety names, but even the varieties differ so little one from another that it is generally recognized as the same species. It is the only conifer that is a native of this state. It is a tree of reasonably rapid rate of growth, making a height growth of from 12 to 24 inches per year.

It is very difficult to propagate from seed and only specialists in this line are successful in handling it. Trees for permanent planting should be 2 or 3 year old stock once transplanted. These will range from 12 to 20 inches in height.

Exceedingly great care must be exercised at the time of handling the trees to see that their roots are not exposed to the air. The sap of the cedar is resinous, and hardens if the

roots are exposed a sufficient length of time to permit them to become dry and any future treatment that may be given will not soften it, and the tree dies.

For windbreak purposes the trees should be set about 8 feet apart in the row. In a few years they fill up the space between one another and form a solid wall of limbs and foliage. Two rows set 8 feet apart with the trees of one row being set alternately with those of the other makes an ideal windbreak.

The accompanying illustration is from a picture taken in Ness county, the trees shown in this picture were set out 8 years ago and are now from 12 to 15 feet in height. At the present time they provide a wonderful protection for the farm buildings and yards, and the amount of protection will increase from year to year with the growth of the trees. The thrifty growth of the trees is sufficient to prove their ability to withstand western Kansas conditions. A few windbreaks of this nature around every farmstead in western Kansas would add wonderfully to the general appearance of the country and to the comfort of man and beast.

The evergreens are far superior to any of the broad-leaved trees for protection purposes on account of the fact that they retain their foliage throughout the winter and serve as great a purpose for protection in winter as in summer.—Chas. A. Scott.

The Irrigating Ditch

The old Oregon trail and the irrigating ditch are twin brothers of progress, but they have long since reached the parting of the roads. One is looking forward, the other backward. The Rogue River Valley Canal Company are obliterating the old emigrant road.

It was the beaver that became responsible for the opening of the Rogue River Valley. Along their trail, in after years, the emigrant wagons dotted white the limitless plains from the foot of the Rockies to the Pacific, and the emigrants left their toll by the trail in nameless mounds on the plains. The old trapper of the Cascade mountains, who followed the beaver in his aimless wandering into the most glorious empire of adventure and resources the world ever saw, has lost the frontier. He has bid good-bye to the wilderness of the Rogue River Valley, which is now dotted with apple and pear orchards.

During the years that followed the finding and marking of this pathway to the northwest, traders, trappers, goldseekers, soldiers, missionaries, and colonists plodded over the long road by hundreds and thousands. First were the explorers, then the hunters and trappers and fur-traders.

Thus the Oregon trail grew and became a highway that was as easy to follow as a country road. Along it for years surged the advance tide of

a nation's traffic. With the building of their railroads, the old highway, no longer used, became obliterated.

Now the trail is a line of steel, and the prairie schooner a tourist car. The rigors and hardships of '49 are buried in the past which met and conquered them. The new landlust exacts no toll of hunger and thirst. Every day the horde swells, the migration grows mightier. The killer has gone, and the tiller has come. The cattle baron is retreating before the apple king. The ten and twenty acre orchard is taking the place so long occupied by the cattle ranch. The irrigation pump sings through the nights that hitherto sobbed with the howling of herds, the plowshare is now demanding the plow's share.

From out of the east and the middle west and the north—from city and atrophied farm, the best and the sturdiest type of the continent is coming to found towns and to break ground; farmers and builders, dreamers and schemers, young and old, clerks and college men—bread eaters turned bread raisers—relinquishing their sullen fight against the odds that face the bookkeeper, shopkeeper, floorwalker, and canvasser—men to develop with the country, preferring a hundred per cent opportunity in towns, which they will help to create to the meager certainties of a metropolitan life.—A. Decker, Los Molinos, Calif.

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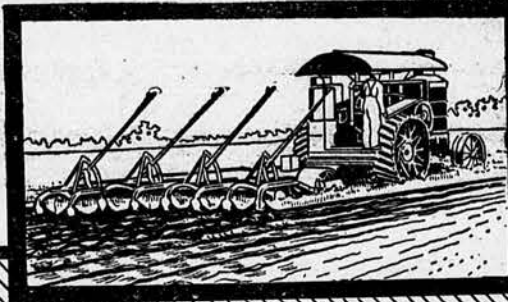
Early plowing kills the weeds before the seeds mature and conserves the moisture. On a large farm this is impossible with horses. But with a Gas Tractor doing the work of 22 to 25 horses, you can get your plowing done several weeks earlier than usual.

The moment you shut down the engine, the expense stops. Wages and feed bills saved will pay for a Tractor in a few seasons. Write for our catalog today.

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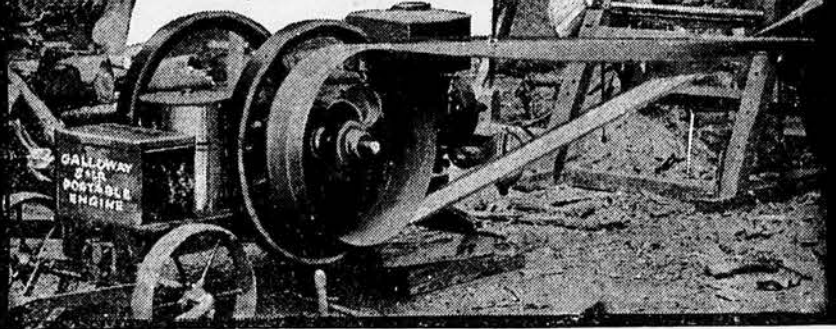
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We helped W. R. Blanchard saw wood. We sawed twelve cords of wood in two hours and twenty minutes with half a gallon of gasoline. It is the best engine of the market.
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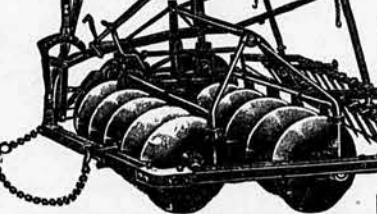


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THE FARM



Oats at the Institutes.

The largest crop of oats grown in Kansas in many years was produced last year. Why? Was it an accident or was it due to better methods of agriculture? The chances are largely in favor of better methods; and those better methods existed because of education. Will Kansas duplicate that oats crop in 1911? It will if the farmers avail themselves of the opportunity to study the question next week. January 14 is to be known as Oats Day in Kansas. The Kansas State Agricultural College invites the members of the farmers' institutes, three hundred in number, to meet in their respective places to discuss the topic, "More Bushels and Better Quality." This topic may be divided this way:

1. Methods of preparing the ground.
2. What crop should oats follow?
3. Is it well to apply manure to the ground in January?
4. Experiences with seeding after one, two or more diskings.
5. Experiences with seeding after early plowing.
6. Experiences with early diskings and then plowing, followed by proper working.
7. Experiences on fall plowed ground.
8. Reports on varieties.
9. Does it pay to use the fanning mill to clean the seed?
10. Time between first spring working and seeding.
11. Time between last working and seeding.
12. Reports on methods of seeding.
13. Reports on rate of seeding.
14. Reports on time of seeding.
15. Cutting for hay.
16. Importance of threshing soon after cutting.
17. Experiences in sowing oats and Canada peas, or (in west) Colorado peas for a hay crop.

Chinch Bug Fungus.

Many years ago some very extensive experiments were conducted by the late Prof. F. H. Snow of the Kansas University to test the value of the so-called chinch bug fungus as an exterminator of this great pest of our wheat and corn fields. Experiments along similar lines had previously been conducted by Prof. S. A. Forbes of the Illinois University but with unsatisfactory results. Professor Snow's work was so extensive and seemed to be so successful that the Legislature granted him a special appropriation with which to continue. His work was prosecuted for a number of years and seemed to result in the extinction of the bugs in the state. At least there was a time following his work of artificially spreading the fungus when the chinch bugs did little or no damage to crops.

Later, however, there came other outbreaks of the bugs and entomologists renewed their studies of the fungus and other means of winning their battle with the bugs. The experiments made at the State University have lately been completed and the results summed up as follows:

1. The chinch bug fungus is present naturally in fields everywhere throughout the infested area in Kansas.
2. It is present in such great abundance that any artificial distribution of infestation in a field would be too insignificant by comparison to be of practical use.
3. Its distribution naturally through a field is much more uniform and general than any artificial distribution can be made.
4. The amount of fungus used experimentally in both wheat and corn fields was so far in excess of any that would be used by the farmer in infecting his own fields that he could not reasonably expect to succeed.
5. The fungus disease shows little tendency to spread from centers of artificial infection. The apparent rapid spread of the disease is due to favorable conditions bringing the spores of

the disease naturally present into activity simultaneously over considerable stretches of territory.

6. In fields where the natural presence of the fungus is plainly evident its effect on the bugs can not be accelerated to any appreciable degree by the artificial introduction of spores.

7. In fields where the fungus disease is not in evidence, spores introduced artificially have no measurable effect.

8. Apparent absence of fungus disease among chinch bugs in a field is evidence of unfavorable conditions rather than lack of fungus spores.

9. All the benefits of the Sporotrichum disease of chinch bugs may be realized by merely letting the fungus naturally present in the soil, do the work of extermination as far as it will.

10. Moisture conditions have much to do with the appearance of chinch bug disease in a field, artificial infection nothing.

11. Spent adult chinch bugs succumb to attack more readily than younger ones, but as the old bugs have finished depositing their eggs their loss by fungus disease accomplishes little else than increasing the amount of infection material.

12. Laboratory experiments can be made to prove that artificial infection accomplishes results upon bugs confined in cramped quarters; but in the field where fresh, and usually drier air prevails, and food is abundant, an entirely different situation is presented.

13. Advocating artificial infection or encouraging it by sending out diseased chinch bugs does not serve the best interests of the farmer, since his attention is thus diverted from other and truly efficient methods of combating the pests.

14. The reported successes of former years on the part of farmers, are believed to be due to the following causes:

1. Failure to recognize spontaneous outbreaks of fungus disease following the artificial sowing of infection; and also failure to use check or untreated fields as a basis of comparison, thus claiming the outbreak as directly due to the artificial infection.

2. Failure to recognize the skins of molted bugs, thus mistaking them for dead bugs.

3. Mistaking the scattering of chinch bugs in corn fields for evidence of their death by fungus disease, when carcasses were not present as proof.

Burning Chinch Bugs.

BY T. J. HEADLEE.

Again the chinch bugs have established winter quarters in clump-forming grasses. They may be found more or less under all sorts of cover, but the threatening bulk of them has gathered in the bunch grass. Those parts of the state greatly troubled with chinch bugs have much of this grass, and the problem of chinch bug destruction during the dormant season involves the destruction of it and other grasses of similar habit. Of the clump forming grasses, the species commonly known as "bunch grass" (*Andropogon scoparius*) is most sought after by the bugs. The stems standing upright and close together form a dense upstanding shelter, protecting the bugs from rigors of winter. Indeed, effects of the chinch bug fungous disease are rarely seen in infested clumps, nor have we ever known the disease to spread in such places, although we have many times distributed bugs dead and covered with the spores through the clumps infested by large numbers of healthy bugs. At the same time we have found the bugs dead and dying of the disease under cover which compelled them to lie close to the moist soil.

That the bugs have gathered the year in dangerous numbers is shown by careful counts made at Conway Springs and at Hays. Five clumps of bunch grass taken at the former place gave an average of 1,000 bugs each.

and eight clumps examined at the latter place showed 400 apiece.

When we consider the immense number of clumps of bunch grass to be found in pastures, along roadsides and fences, and in waste places generally, it is easy to comprehend how threatening the situation looks. Certainly, if all the bugs now in winter quarters get through the winter safely and experience a dry and favorable spring and summer, Kansas crops will suffer a loss of many millions of dollars.

HOW TO FIND THE BUGS.

The farmer must know for himself whether he has bugs in his grass lands. This he can determine by parting the stems close to the place from which they start. Ordinarily a mulch of soil and decayed grass will have gathered at the base of the stems. He should look carefully in this and should not give up the search at once, because the bugs play 'possum and are not easily seen until they move. If the bugs are abundant they will be revealed by this search. In case more careful looking is required to find them, take up a clump of the bunch grass, root and all, and pick it to pieces over a large sheet of white paper or cloth, watching for the bugs. If they are present in any numbers worth considering, this should reveal them.

WHAT TO DO WITH THEM.

Having found that the bugs are present in considerable or large numbers, the next step is to determine where on the farm these clump forming grasses are to be found. Then a practicable method of destroying the bug infested clumps, which will at the same time destroy the bugs, must be selected. Fire at once occurs to one as the most practical and efficient agent to be employed for this purpose. Obviously fire must destroy the bugs in one or both of two ways: first, by burning them, and, second, by destroying their cover and leaving them exposed to the rigors of winter. The first method requires either that sufficient heat shall be generated to effect their destruction or that they shall actually be partly or completely consumed by the fire. The first requires an unusually hot prairie fire, such as might result from the consumption of a very heavy cover. The second requires very close burning—consumption of the stems to within about half an inch of the crown. Little harm seems to be done to the bugs by ordinary prairie fires, which do not burn closer than one inch from the crown.

The prime requisite, then, in firing the infested clumps of grass, is so to handle the fire as to make it burn close to the crown from which the stubble grows. The type of firing which gives this desirable result appears to vary with weather conditions and must be selected by the individual farmer at the time of treatment.

Our Ellis county table shows: (1) That the clumps of bunch grass averaging five inches in diameter contained about 400 bugs each; (2) that the prime requisite for destruction of the bugs is close burning; (3) that close burning will destroy practically 100 per cent; (4) that the direction from which the fire comes has little to do with its efficiency, and that in all probability different conditions of weather and locality will render different types of firing suitable at different places and at different times in the same place.

Our Sumner county table shows: (1) That the clumps of bunch grass three inches in diameter sheltered an average of 1,000 bugs apiece; (2) that running fire over infested grasses under varied conditions will destroy 43 per cent to 86.4 per cent of the bugs. The notes show that clump No. 1 in the Sumner county table had a stubble one inch long, but they also show that the cover was unusually heavy and that the heat generated was correspondingly high. Evidently, therefore, when the heat generated is for any reason unusually great the burning may not be so close and yet be effective. All things considered, however, in general the secret of destroying the bugs directly appears to lie in close burning of the infested grass clumps. There will be a question in the minds of some as to whether close burning will not injure pasture lands and meadows. Most farmers with whom we have worked believe that it will not seriously harm the grass or decrease the yield, especially when

done only once in several years. In this connection it is worth while to note that while parts of the railroad right of way are burned off every fall, the grass is not killed out.

CONCLUSION.

1. The chinch bugs have gathered in dangerous numbers in the clump forming grasses of the badly infested parts of the state.

2. Most of the bugs can be destroyed by running fire over the infested grass lands in such a way as to burn the clumps down close to the crowns, and the balance will thereby be exposed to the rigors of winter.

3. Never have conditions for winter destruction of chinch bugs been better. The grasses are so dry that close burning is easy.

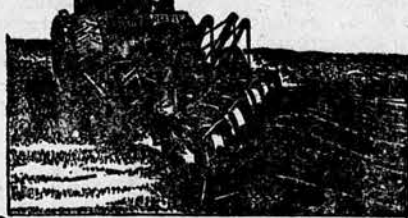
4. Neglect to destroy these bugs, and with winter, spring and summer favorable to them, wheat, corn, cane and Kafir will suffer severely and in many cases be completely destroyed.

Don't depend upon a dose of medicine to do the work that a little wholesome exercise will do better.

If you cannot make your mark in the world in any other way you might try falling from an aeroplane.

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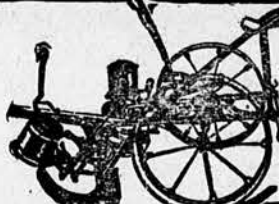
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The features that make Great Western Separators different, net enough EXTRA profits, above what any other separator would make, to pay for itself QUICK. The Great Western bowl, for example, is the one that follows nature's laws by delivering the cream from the top and the skim milk from the bottom. There is no chance of their mixing—so you get the utmost in quantity and quality of cream—even when skimming COLD milk.

The bowl of the Great Western is self-draining and self-flushing. There are no long tubes, no minute slots, nooks, corners, crevices or ragged edges to hold milk and collect dirt and make it unsanitary. That is another reason why Great Western owners get first grade butter and why the

Great Western Cream Separator

is so sanitary and remarkably easy to clean. No other separator classes with the Great Western when it comes to materials. Compare the Great Western bowl, bearings, spindle, main gear, spiral gear, pinion, main shaft, crank shaft, frame, tank and every other part—with any other separator. Then you will understand why the Great Western keeps on making the biggest profits for the longest time. Another reason is the minimum vibration of the Great Western: the bowl, gears and all

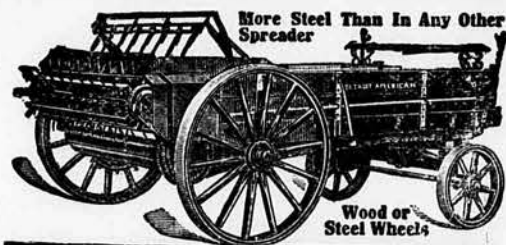
other heavy parts are low down—close to the ground. Yet the base is sanitary, the tank is low and the crank is at the proper height for easy turning. The Great Western Separator is ball-bearing throughout. The balls we use are absolutely uniform in size and test 50% to 100% harder than balls of other use. The ball races in the Great Western are tempered so hard that you cannot cut them with a file. That is why the Great Western beats them all for easy running and long service.

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LIVE STOCK



When buying at the winter sales it will always be wise to see that the purchased hogs are free from lice. These insects are not often present in considerable numbers on high class hogs sold for breeding purposes, though they may be and even a few will cause trouble in time.

When the draft colt is pure bred and well educated he is one of the most valuable and most readily saleable of farm products. A team of good registered draft mares will more than pay their way in work and bring high priced colts as well. This is the age of the draft horse.

The breeding of live stock compels the growing of grain and the feeding of live stock returns to the soil that which it mostly needs in manure.

The Kansas Experiment Station is now conducting some hog feeding experiments that are of high value. Duroc-Jerseys are used and, in a general way, the experiment is a test of the value of alfalfa for pork production, though the question of a properly balanced ration is also under investigation. The experiment is not complete as yet and the figures showing results are not available, but the difference in growth and development shown by several lots of hogs on different rations is remarkable. The hogs that were fed a full ration with alfalfa pasture showed a gain of about 1½ pounds per day, while those fed on corn alone only gained .47 of a pound per day. KANSAS FARMER readers will be given full information on completion of this experiment.

Percheron Society Extends Time Limit for Re-recording.

The Percheron Society has, for the past four months, permitted the re-recording of pure-bred Percheron horses previously recorded in some of the minor associations, at nominal rates, in order to permit all members to get their stock straightened out. A very large number of breeders have taken advantage of this opportunity and have re-recorded such of their animals as were not already properly recorded in the Percheron Society of America. A number, however, have found it impossible to secure all necessary evidence in the way of applications, transfers, original certificates, etc., before January 1, and as many breeders had petitioned that the time limit be extended for a short time in order to permit them to secure such evidence as is necessary for re-recording their horses, the board of directors, at a meeting on December 20, decided to extend the special time limit for re-recording Percheron animals, recorded in some of the minor associations prior to October 15, 1910, until March 31, 1911. This will allow Percheron breeders three months additional time in which to get their stock straightened out, and after March 31, 1911, those who have not straightened out their stock will probably be left out entirely.

Secretary Wayne Dinsmore, Union Stock Yards, Chicago, Ill., will furnish further information if desired.

New Importation Rules.

Order No. 175 of the Bureau of Animal Industry of the Department of Agriculture publishes the new regulations under which pure bred animals for breeding purposes may be imported to this country. It will be noticed that registration certificates of the foreign books will now be required instead of those of American books as heretofore. These regulations went into effect on January 1 and are as follows:

REGULATION 1.—CERTIFICATION OF PURE BRED ANIMALS.

Section 1. The Bureau of Animal Industry of the Department of Agriculture is hereby authorized to issue certificates of pure breeding under the provisions of this order.

Sec. 2. In order to obtain such certificates of pure breeding, importers

shall conform to the following procedure:

Paragraph 1. An application for certificates shall be made to the Bureau of Animal Industry on forms furnished or approved by the Department, showing the number of animals to be imported, the breed and sex, the port of shipment, the port of entry into the United States, the name of vessel by which shipped, and the probable date of arrival. This application may be signed either by the owner, the importer, or the agent, stating the name and address (in the United States) of the owner of the animal or animals.

Paragraph 2. Certificates of registration and pedigree for said animal or animals, issued by the custodian of one of the books of record given in Regulation 2, section 4, of this order, shall be furnished to the Bureau of Animal Industry with the application.

Paragraph 3. A certificate from the seller or his agent shall be furnished to the Bureau of Animal Industry with the application, giving the name and registry number of each animal sold to the importer, the date of sale, the place of purchase, and the name and address (in the United States) of the purchaser. Vendor's certificates furnished by the custodians of foreign books of record, containing the above information, may be used; otherwise, the form of vendor's certificate furnished or approved by this Department must be used.

Sec. 3. Applications will be given consideration by the Department in the order in which they are received. When the application and accompanying papers are satisfactory, certificates to that effect will be issued promptly and forwarded to the inspector of the Bureau of Animal Industry at the port of entry or at the station where the animals are quarantined, which officer will compare the animals imported with the data furnished in the foreign pedigree certificates and the certificates of the Bureau of Animal Industry will be given to the owner, importer or agent. All papers for animals which do not meet the requirements of this order will be retained or returned, in the discretion of the Department.

Where the provisions of this order have been otherwise complied with, animals will be certified as pure bred which have been fully registered in good faith in one of the books of record for one of the recognized breeds given in Regulation 2, section 4, of this order, except those which have been registered on inspection.

REGULATION 2.—CERTIFICATION OF RECOGNIZED BREEDS.

Sec. 1. Before an additional breed to those shown in section 4 of this regulation shall be added to the order, the custodian of its book of record shall submit to the Department a complete set of the published volumes of such book of record to date of making application, together with all rules in force on said date affecting the registration of animals in said book of record. The Department will consider the case on its merits and use such information as may be available to determine whether the breed is a recognized breed and whether the animals registered in the book of record are pure bred.

Sec. 2. All official communications submitted under the provisions of this order should be addressed to the Chief of the Bureau of Animal Industry, Department of Agriculture, Washington, D. C., except as mentioned below.

Sec. 3. Custodians of books of record for certified breeds shall forward volumes of their books of record, as soon as published, addressed to the Chief of the Bureau of Animal Industry, in care of the United States Dispatch Agent, 2 Rector Street, New York, N. Y., U. S. A.

Sec. 4. The recognized books remain practically as before.

All men were created equal but they do not remain so very long.

Live Stock Farming.

While there will always be periods of depression—and this is true of every industry—it is safe to say that never again will live stock breeding experience such unfavorable conditions for its development as during the last ten or fifteen years. During this period, however, many farmers in every section of the corn belt demonstrated that intelligent beef production is more profitable than exclusive grain growing. An Illinois farmer, in a recent conversation with the writer, made the following statement: "My farm, which I purchased about eight years ago, had been for several years previous to purchase under a system of tenant farming, and was considerably run down when it came into my possession. I brought with me to the farm a herd of Galloway cattle. My neighbors insisted that the land was too valuable for cattle raising, but I have persistently maintained a system of crop rotation which included pasturage for my breeding herd. The productiveness of the farm has increased from year to year. I now grow more grain on 120 acres than my neighbors do on 160; the 40 acres devoted to pasture represent additional profit, for I practically winter my cattle on what ordinarily goes to waste on the average farm." This is only one of many concrete examples that could be cited to show that stock raising, when combined in an intelligent and practical way with grain growing, is the secret of successful farming. Straight grain farming tends toward soil impoverishment.

We are not growing too much grain, but we are devoting too many acres to its production. The total output of grain has increased in recent years, but there has been an alarming decrease in the yield per acre, and unless we increase the number of farm animals there will be a further decrease in the per-acre yield until it is insufficient to meet the cost of production, even though present grain values continue. It must be borne in mind, however, that any considerable reduction in the number of farm animals will tend toward a depreciation of grain values below the cost of production. This fact is more readily appreciated when it is known that about 80 per cent of our corn is consumed by live stock. Systems which combine live stock with grain farming are the only systems that prevent soil impoverishment, and they are the only systems that maintain an equilibrium between prices of grain and farm animals. Better blood, better pastures and an abundant variety of cheap winter forage are the underlying factors in economical beef production.

The decline in beef production has been especially noticeable to those who have been connected with the pure bred cattle industry. There has been a decreasing demand from the old-time cattle raising sections of the country for pure bred bulls; thousands of head of registered cattle have figured in the receipts of the various markets, and many of the larger and older herds have long since been dispersed. A writer recently made the statement that in a study of the herd books of one of the larger pedigree record associations he found that less than 10 per cent of the breeders who were recording cattle eight years ago have remained in the business. This continual change in ownership of registered herds is not indicative of a healthy condition, nor does it tend toward the general improvement of a breed. There has been little incentive in recent years for the breeder of pure bred cattle to devote time and study to the business, but the breeder who has striven from year to year to improve his herd is soon to reap his reward. Agricultural papers and experimental stations are educating our people to a higher appreciation of pure bred stock on the farm. The beef supply of the future must come from small herds, and the demand for pure bred bulls of the beef breeds will become more and more a factor in the agricultural development of the country.

It is a matter of dispute as to whether dairying or beef production is the more profitable. No one denies the right of the dairy industry to a high place in American agriculture, but it is altogether misleading to claim that the dairy herds must become the base of supply for the beef output of the United States. There

will always be a wide demand for beef that can be produced only in herds maintained and developed strictly for that purpose. The many kinds of live stock and the many ways of combining animal husbandry with grain-growing permit an endless number of systems of farm management. There is no best system, just as there is no best breed of stock. The choice is with the farmer, and he must be governed by his own inclinations and an intelligent knowledge of conditions, local and universal. The highest development of our agricultural life is dependent upon a multiplicity of systems which shall meet the demands of local conditions and variable markets. There is no immediate prospect of over supply in any product of the field or farm, and the opportunities of farm life were never so abundant as now.

The revival of interest in live stock presents new opportunities to breeders of Galloway cattle. Farmers are seeking practical and definite information in regard to the most economical methods of beef production. The Galloway as an economical producer of beef is unexcelled. The hardiness and the adaptability of the breed to make excellent use of the cheaper and coarser feeds are assets of which no other breed can boast. The Galloway breed has a permanent place in the field of beef production, but the permanency of its position depends in large measure upon the practical, intelligent work of the individual breeder. There is room for the development of all the beef breeds, and if there ever was a time when breeders were justified in discontinuing stock raising, that time has passed.—R. W. Brown, Secretary American Galloway Breeders' Association.

Silage for Beef.

We are feeding 40 head of heavy cattle from one silo, 18 feet in diameter, and 30 feet deep. For feeding we have a track running out from the silo door, 60 feet. This track is fitted with a car with flanged wheels. There is a trough on each side of the track running full length. We run the car up by the silo door, and fill it with feed, then push it out along the track, shove the feed each way into the troughs and the cattle do the rest.

Now just a word as to the cost of silage feed. We fill this silo from 30 acres of very light corn. We estimate the corn at 10 bushels per acre, the value of the corn in this silo being \$120, figuring at the local price of 40 cents per bushel. We also paid for machinery, fuel and labor \$75, making this feed cost us \$1.30 per ton. These cattle are now eating 2,000 pounds per day, or 50 pounds per head. We are also feeding 2½ pounds of cottonseed meal, at \$30 per ton or 1½ cents per pound, making the ration cost 7 cents for each steer. We have fine quality of clover hay and we have fed about two tons in two months. Compare this with the old way of feeding, ½ bushel of corn 20 cents, 20 pounds of clover hay at \$10 per ton, 10 cents, two pounds of cottonseed meal at \$30 per ton, 5 cents. The cost of this ration per day would be 35 cents, or a saving of 29 cents per day in favor of the silage ration. We have no way of knowing just how fast these cattle are gaining, but they have every appearance of full fed cattle, and last year we had cattle fed in the same way make a very satisfactory gain. We had one bull in the lot that was weighed in and in sixty days was weighed again in Kansas City. He made a gain of 200 pounds in the sixty days. We put up another silo this year 14 by 26 feet, from which we are feeding 35 calves, 5 horses, 2 mules, 16 sheep and 50 hogs, with two baskets per day for the chickens. We consider silage feed the best feed we ever fed our brood sows in the winter. Last spring we had 9 sows wintered on silage feed bring us 62 live pigs without any trouble with either sows or pigs. We sold 60 of these pigs in October weighing 82 pounds each. The other two were killed accidentally during the summer. The silo with us has solved the question of making valuable feed out of a light Kansas corn crop and we have this year 225 tons of excellent feed from 40 acres of corn, while our neighbors from corn handled the old way did not get more than from \$4 to \$5 per acre.—J. M. Paul & Son, Baird, Kan.



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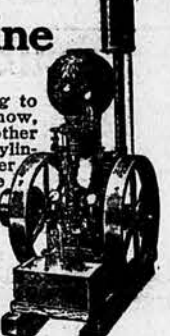
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Sweet potatoes produce big returns and are usually planted after Irish potatoes have been dug. Two to three hundred bushels an acre are produced and bring from 50 cents to \$1.75 per bushel. Let me send you our illustrated booklets and learn what can be done in a country where fertile land can be purchased cheaply and where there are 312 working days a year. Low round-trip fares 1st and 3d Tuesdays each month.

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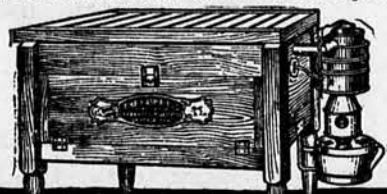
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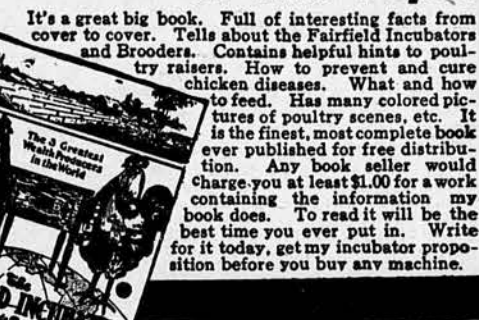
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The greatest advance in the direction of breeding heavy laying strains of fowls has been made in South Australia. A large number of breeders have taken up the utility side of poultry keeping and have bred their strains for the production of eggs, at the same time maintaining stamina.

The fowls have been mated and bred with greater care than commonly followed by fanciers. They have gone one step in advance of the trap-nest system and have given small individual pens and yards to each hen or pullet. White Leghorns, Silver Wyandottes and Black Orpingtons are also largely bred.

The foundation stock of White Leghorns was imported from England, and about eight years ago some birds were taken over from the yards of Messrs. Wyckoff and Van Dreser of New York. The introduction of this new blood was productive of wonderful results. The type is practically that of the American, but the birds are $\frac{1}{2}$ to $\frac{3}{4}$ pound heavier.

All pullets are tested for egg production during the first year before they are used for breeders, and candidates are selected which give an annual yield of above 220 eggs. There is a rigid rejection of inferior specimens, and out of 100 first-class layers maybe 30 would be considered really fit for breeding.

Line breeding is followed very closely. Breeders attach as much importance to the ancestry of the cockerel as to that of the pullet. The male bird must not only pass muster as to type, carriage, general style and vigor, but must be able to hold his own in the daily battles with his brothers.

Getting Eggs in Winter.

Do you want your hens to produce an abundance of eggs in winter, or would you prefer to get most of them in the spring?

This is a question you must decide for yourself. A hen lays a certain number of eggs during the year, and can be made to lay the bulk of them in the fall, winter or spring as the breeder may desire. The breeder of fancy poultry wants the heaviest egg production during the hatching season, when they are worth the most to him, and doesn't particularly care for fall and winter eggs; while the person producing market eggs wants the most of them during the fall and winter, when they bring the highest price.

The time of laying depends almost entirely on the time of hatching the pullets and the way they are fed. Take for example the Plymouth Rocks. If we want eggs in September, October or November, the pullets should be hatched in February, March and April. Ordinarily they begin to lay in seven months. By feeding a dry mash composed of 30 pounds corn meal, 30 pounds shorts, 15 pounds bran and 25 pounds beef scraps from the time they are hatched along with a mixture of grain, they will lay at six months, and the February, March and April pullets may all begin to lay at about the same time, if the earlier ones are retarded by being fed only grain, while the later ones get the grain and mash. These pullets will lay all fall and winter if given this feed mixture and properly housed; will get broody early, moult early and lay early the next fall.

Eggs from these pullets will not hatch as well and the chicks will not be as strong as from pullets that have been retarded so as to begin laying in January. For that reason the fancier who produces eggs for hatching prefers pullets that have been retarded so as not to begin laying until fully matured. Pullets that have been on a grain diet and have had to scratch all winter for a living are the ones that produce the strong, fertile eggs.

For getting winter eggs pullets of

the smaller varieties may be hatched later than the Plymouth Rocks as they will lay a clutch of eggs in late summer, moult before cold weather and not produce any eggs all winter.

The heavy varieties such as Cochins, Brahmas, Langshans, etc., must be hatched very early and fed well to make good winter layers.

Since incubators have become so plentiful one can regulate the time of hatching, something we could not do when depending on the sitting hen. Many people do not understand this and think if they buy a bunch of hens in the fall and feed them right they will get plenty of winter eggs. Such is not a fact, as many have found out after much expense and trouble. A hen that has not moulted her feathers by September will not make a winter layer, no matter how much feed and corn she gets.

The most successful egg producers sell the hens as soon as they are a year old and replace them with pullets. While hens usually lay well the second year they are not as profitable as pullets.—W. A. Lamb.

The Duration of Layers.

It is a debatable question among poultrymen how long it is profitable to keep a layer. For a long time it has been advised to discard the laying stock at the end of the first year and replace it with pullets hatched each spring. This, no doubt, is good advice to those keeping the heavier breeds, but how about the lighter breeds?

My experience with Leghorns has taught me that a pullet was apt to produce more eggs than a yearling or a two-year-old hen, but not enough more to pay for the difference in the cost and trouble of raising her. A hen lays a larger egg than a pullet, and her eggs make a better appearance in market.

It costs much to replenish one's flock each year, to say nothing about the extra room, time and pains required. Some poultry keepers, with a flock of 400 fowls will raise 100 pullets each year, and thus their flock is renewed every four years. Such a system is found to work very satisfactorily, and is a great saving.

Careful selection of the best layers regardless of their age, except that certain age limit is fixed, will give one a flock productive of the best results.

Among some varieties of fowls it may not be wise to keep the laying stock more than one year, for some breeds take on fat rapidly after reaching full maturity, and are almost useless as egg producers. But among the lighter and more active breeds, such as Leghorns, Hamburgs, Polish and Minorcas, there is no necessity of disposing of the layers at the end of their first year. They may be kept with almost as much profit as pullets for two to four years.

I have known my father to keep White Leghorns for eight years that were profitable up to the time of their disposal. He had a system of his own that he followed. Every fall he would look over his flock and select those that were unusually fat or those whose combs were small and withered and seemed less promising as layers than the others. These were killed and marketed at intervals of two weeks.

This elimination of non-layers and overfat stock went on from November to the middle of February each year, and enough pullets were raised to take the place of those that had been marketed. His flock was always profitable and none of the neighbors ever got as many eggs as he did during the winter or the year through.—A. G. Symonds.

The family tree is a nice thing to have but many people cannot look it up without the danger of having coconuts thrown at them.

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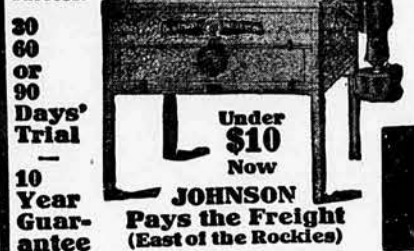
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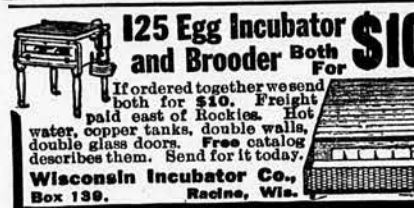
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Silo The Crop and Save It All

Continued From Page Five

From October 10, 1902, to June 8, 1903, the Kansas Experiment Station fed a lot of ten steers on corn silage, chopped alfalfa hay and a grain mixture of equal parts of ground corn and Kafir corn, in comparison with another lot of twenty steers of the same average weight and quality fed exactly the same feed except silage. The results were:

	No. of steers	Total gain of lot, lbs.	Grain consumed per 100 lbs. gain, lbs.	Roughness consumed per 100 lbs. gain, lbs.	Chopped alfalfa, lbs.
With silage.....	10	4,468	715	461	327
Without silage....	20	8,359	733	...	483

From these figures it will be seen that for every 100 pounds of gain the 101 pounds of silage saved 18 pounds of grain and 156 pounds of alfalfa. The steers were shipped to Kansas City and sold at the stock yards June 23, at the following prices:

Lot with silage, per 100.....	\$4.95
Lot without silage, per 100.....	4.70

Here is a gain of 25 cents a hundred in the selling price in favor of silage steers. Adding to this the \$1.05 already saved, it makes the 461 pounds of silage worth \$1.30, or at the rate of \$5.65 a ton.

Making a comparison on the basis of roughness alone, the 461 pounds of silage plus the 329 pounds of alfalfa in the silage lot is equivalent to the 85 pounds of alfalfa in the lot without silage. This shows that the 461 pounds of silage was equivalent to 56 pounds of alfalfa. At this rate, 102 tons of corn silage is equivalent to one ton of alfalfa hay.

When sold the silage lot were pronounced excellent cattle and fat enough for the ordinary trade. After the cattle were slaughtered and placed in the cooler, Armour & Co. sent over the carcasses. The silage contained the largest per cent of fat—just the right amount for the packer's trade. The carcasses showed good quality, with little waste, and could be salable on any market. The lungs and crops were pronounced excellent. The lot without silage was considered a nice assortment of cattle, but they were not nearly so well covered with fat and did not meet the requirements of the dressed-beef trade as well as the silage lot.

Average farm land in average seasons will produce from ten to fifteen bushels of green corn an acre. Assuming that land will yield only ten tons an acre, there is an income, according to the foregoing experiment, of \$5.50 an acre.

A special investigation was made in Virginia to compare silage and stover. A slaughter test showed that the average dressed weight of the silage fed lot was 57.05 per cent and that of a stover fed lot 56.3 per cent of the live weight. Though the percentage difference was small, the extra amount of beef produced on the silage ration was calculated to be 316 pounds, which, at 8 cents a pound, would make \$25.28, or about 25 cents a hundred pounds live weight, in favor of the silage ration.

At the Pennsylvania Experiment Station corn stover and corn silage were compared with two lots of six steers each, the grain ration in each being broken ear corn with 2 pounds of cottonseed meal a head a day. Mixed hay was also fed to both. In the 126 days of the test the average gain on corn stover was 214 pounds a steer, and on silage 240 pounds. The cost of a pound of gain with the corn stover was 8.08 cents, with the corn silage ration was 6.9 cents. Undoubtedly a part of the superior value of the corn silage was due to the ears which it contained.

From the results it appeared that the cattle receiving silage as their roughness during the winter made the largest gains, did not drift materially when turned on the grass in the first ten days, slaughtered to better advantage than the dry cattle, and were in a thriftier and better condition throughout the feed-

ing period. This is sufficient proof of the fact that succulent foods can be fed to cattle maintained as stockers and finished on grass. The beef made per acre by the grazers varied from 46 to 60 pounds, or a return of from \$2.12 to \$2.82 an acre.

Corn silage has been fed to sheep in comparison with roots at Ontario Agricultural College and at the Michigan Experiment Station. At both places the results of the two kinds of feed are practically equal. The silage, however, can be produced at a much lower cost than the roots. The only root crop much grown in Kansas is sugar beets. At the Pennsylvania Station an acre of corn placed in the silo cost \$21.12, while to grow and house an acre of beets cost \$56.07. At the Ohio Station an acre of beets cost more than an acre of corn yielding as much dry matter.

At the Massachusetts Station six sheep were fed during one period a ration of gluten feed, cottonseed meal and second-crop hay (rowen). After feeding this ration, corn-and-soy-bean silage was substituted for the hay and fed seven weeks. The difference in gain in weight in one period over the other was very slight, being 2.5 pounds in favor of the hay for the sheep for seven weeks. The silage ration, however, cost \$5.58 as compared with the \$6.26 for the hay, and it cost more to make a pound of gain with the hay than with the silage. For stock and breeding sheep, silage gives uniformly successful results. Silage-fed ewes usually produce strong and vigorous lambs, and, as in the case of milch cows, silage is a satisfactory and economical food for milk production, and is, therefore, a useful adjunct to winter lamb production.

Regarding the feeding of silage to horses there are conflicting reports. At the Ohio Experiment Station one feed of twenty pounds was given each horse per day in place of the usual feed of hay, for two months, with the result that the appetites of the horses were sharpened, and the healthfulness of the food was manifested in the new coat of hair which came with the usual spring shedding. The coat was glossy, the skin loose, and the general appearance was that of horses running on pasture.

The Virginia Station gives the following results of corn silage fed to two horses and six mules, work animals: The animals were given small amounts of silage for some weeks before the test proper. After the preliminary period, they were fed for six weeks all the silage they would eat, with hay and corn in addition. The silage was readily eaten by horses as by cattle, and the horses, after becoming accustomed to silage, ate no more than they could easily assimilate. Trouble reported in feeding silage to horses may be attributed to feeding too large quantities at the start. As a whole, it would appear that silage would make good coarse fodder for horses when used in connection with hay or stover and grain, but that the animal should become accustomed to the food by degrees, and that this is as important as when changing from old corn to new, or from hay to grass.

Because of its bulky nature, silage is not adapted for fattening swine. It has been used, however, with good results in winter rations of brood sows. Feeding experiments have shown that silage is an economical food for hogs when fed with grain, but not when fed alone. It is not probable that silage will be much used for swine except in small quantities for brood sows. In Utah and New York silage has proved unsatisfactory for swine.

A serious difficulty in the way of winter egg production on the average farm is the lack of green and succulent food. Experience shows that the daily furnishing, during the winter, of a small quantity of silage for the hens to work over invariably results in an increased egg production. The hens pick off all the kernels from the ears and will eat a considerable quantity of the smaller stalks and leaves. So important is silage for laying hens that many poultrymen prepare small quantities in barrels, exclusively for poultry.

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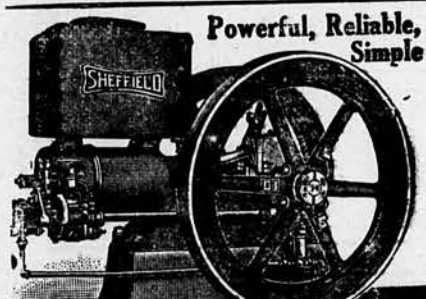
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The wide-awake bee-keeper will study the demands of his market.

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The bee when out foraging never acts on the offensive—always on the defensive.

The low or dark grades of honey are now largely used by the bakers.

Leave no honey or loose comb open around the apiary under any circumstances.

"The lazy, yawning drone" of 1910 is dead.

Give your bees plenty of good food for winter.

Queen Breeding.

J. C. FRANK.

Possibly the highest attainment of a successful bee-keeper, in this day and age, is the skill in breeding a higher grade of queens for his apiaries. Honey production and rearing queens are to a certain extent antagonistic to each other in practice. The producer of honey must build up his colonies to the greatest strength possible; while the breeder of queens is continually and unavoidably depleting his colonies and keeping them reduced in strength. Hence the queen breeder is liable to have on hand in the fall, a lot of weak fragments of colonies that will have to be doubled up and fed, at a great expense, if he wishes to take them through the winter.

Here the question comes up, which is the most profitable, producing honey or rearing queens? This depends upon the extent of pasturage, location and market. If the bee-keeper is in a fair location for honey, he had better sell his honey at ten cents per pound rather than rear queens for the market at one dollar each, for the care, attention, labor and expense attending the production of first class queens, are very great indeed.

As the queen is the prime factor of a colony, it is essential that she should possess all the requirements for successfully performing her special functions. If we desire to improve the qualities of our bees we must commence with the improvement of the queens.

That there is room for the improvement of the honey bee I think can hardly be questioned. We know that both plants and animals have been improved upon in the last twenty-five years, and why should bees be an exception to this natural law? Our delicious and wholesome apple of the present day was originally the sour, miserable Siberian crab; our sweet and juicy peach was from a bitter fruit of Asia; our improved Irish potato sprang from an insignificant tuber of South America. Our improved breeds of horses, cattle, hogs, poultry and, in fact, all of our plants and animals have been brought up to their present state of perfection by intelligently and carefully breeding up from the wild and originals. How far this improvement can be carried with the bees is difficult to determine, as the organs of reproduction in the queen as well as her fertilization are, I may say, anomalous and so unlike the breeding of our domestic animals that the queen breeder will always have a lot of difficulties to contend with.

In breeding queens of any variety of bees there is a tendency to sport and run back towards the original, especially is this true in the yellow varieties. For this reason it is important to select breeding queens that possess a strong individuality, and capability of stamping their characteristics upon their progeny. This information cannot be had by mere appearance of the queen, but by practically testing her queen and worker progeny.

It is very important to select the most desirable drones for the purpose of fertilization. Drones should be reared with as much care and attention as our queens, and during the breeding season see to it that your apiaries literally swarm with drones from the choicest breeders. Drones from a vicious and irascible colony may corrupt the worker progeny of the majority of the young queens in an apiary. All impure and objectionable drones should be disposed of by frequently examining the colonies and shaving off the heads of the young drones in the cells; by cutting out the drone comb and inserting worker comb in its place, and by the use of drone traps. For this object I know nothing better than Alley's queen and drone trap.

The highest type of a queen can only be obtained when all the conditions for her development are the most favorable. These conditions we can learn by observing a colony the evening before swarming. The hive is crowded with young bees, the temperature is maintained at a uniform heat; honey and pollen are plentiful and the entire colony is infused with life and intensity of purpose to perpetuate the race. Hence it would be but natural for them to put forth their best energies in the development of the future queen that is to lay the eggs to produce the population of the colony. Therefore, the breeder should study the economy and condition of the bees at swarming time, and endeavor to keep his breeding colonies in approximate conditions.

Queen cells built in full colonies are generally fine and well formed, and the queens correspondingly fine. This is as they should be under the most favorable conditions of full colonies. If the cells are examined they will usually be found to be long, rough with indentations on their surface; and the amount of royal jelly deposited around the embryonic queen to be very abundant. In some cells it is in excess of consumption, and a large quantity is left after the young queen has emerged from the cell.

When a colony is deprived of its queen they instinctively go to work, as soon as the excitement attending the loss subsides, to rear another. They are ready to do the work; but in order to get the best results, we must supply them with all the requisites and essentials.

The egg of the queen is an allogon to the eggs of fowls and birds. It has its delicate coverings, albumen and yolk; and when the little germ within develops and bursts the shell, it emerges a tiny worm or grub, scarcely discernible with the naked eye. This is now the perfect age of the larvae for the bees to develop into a queen. Always select the larvae as young as possible, but never over two days old.

At three days old it produces poor and puny queens, and after the larvae gets four days old it is entirely worthless for breeding purposes. It has been demonstrated time and time again, that the royal jelly is most abundantly elaborated by young bees, and for this object they must be fully supplied with both honey and pollen. The temperature of the hive must be high enough not to chill the larva.

In order to get the larvae of the right age you must insert a frame of nice, clean worker comb in the center of the brood nest of your hive that contains your breeding queen, and if this colony is strong and the queen prolific—a condition in which it should be kept—the comb may be filled with eggs by the next day; but if the comb isn't clean and has been out of the hive for some time, the queen will refuse to lay in it until the bees clean and polish the cells. They frequently fill the cells of such comb with honey, rather than have eggs deposited in it.

Queen breeding is not queen rearing; therefore I shall not take up your time by describing the new or old methods of queen rearing. This work is not perfect or complete. It is merely a starting in the right direction.

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DAIRY



Silos and Silage.

GEO. H. FELLNER, CHICAGO, ILL.

The high price of concentrated feeds at the present time is one of great importance to the dairyman. Ten years ago it was possible to buy commercial feeds at a nominal cost, but today they have almost doubled in prices. The dairyman with pure bred stock or in fancy market may possibly make a profit by using such feed, but the average farmer must strive to raise his own grain and roughage to a large extent. Many farmers believe that the only way to make money is to get a high price for their products and have plenty of these products to sell. But prices are not always high and the farmer does not always have a large supply on hand, so there must be some other factor entering into the profit side of dairying. It is reasonable to state that the dairyman receiving only a fair price for his products should have an income sufficient to pay his wages, beside a fair net profit. With the present high price paid for butter-fat the well managed dairy farm should indeed be a source of wealth.

In the central west corn is hailed as the king of all cereals, forming the backbone of the ration of the majority of our farm animals. By placing it in a silo the stalks as well as the ears become available. Practically 40 per cent of the feeding value of the corn crop lies in the stalk, leaves and husks, with the remainder in the ear. Therefore, if only the ears are gathered much of the remaining 40 per cent of the crop is left in the field to bother the farmer in preparing his seed-bed for the next year. As corn should be cut for the silo before the lower leaves are lost, there is very little waste. About twice the amount of dry matter can be stored in the form of silage as in corn fodder. It has been determined that a cubic foot of hay in the mow contains but 4.3 pounds of dry matter; while a cubic foot of silage contains about 8.9 pounds of dry matter. A cubic foot of space in a silo is therefore worth more than twice an equal space in the mow.

The digestive organs of the animals that chew their cud are so formed as to require juicy and bulky food. The cow cannot thrive on dry feed as well as the horse. The ideal food for the dairy cow is green pasture, but for a number of months during the year she is deprived of this feed. The best substitutes for green grass are root crops and green silage. As silage yields twice as much matter per acre as roots and does not require so much labor, silage is by far more economical wherever corn can be raised. Silage has a laxative effect upon the animal and keeps it in a healthy and vigorous condition.

By placing the corn crop in a silo you double the feeding value, and thus the number of cows may be increased accordingly. I know of a certain dairyman in northern Iowa who has been keeping 30 cows on 160 acres. He used one silo of 150 tons capacity. Last year he doubled his silage capacity and now keeps 60 cows on the same farm at a big profit. This serves to show that the silo goes well with intensive agriculture, and all the fertilizing elements remain on the farm to enrich the land.

The population of the United States is doubling every thirty years, which means that the farm must gradually become smaller and that more products must be raised per acre. The high price of land also demands that more intensive methods must be used in order to get a dividend in proportion to the value of the soil. Practice tells us that one acre of corn placed in the silo will yield enough feed to supply a milch cow 40 pounds of silage for 500 days, or four cows for 125 days.

Another important factor is the reduction in storage space of silage compared with that required for hay. I find that one ton of clover hay occu-

pies 400 cubic feet, while eight tons of silage may be placed in the same space. The clover hay contains 886 pounds of digestive nutrients and the silage contains 2,064 pounds. Thus the corn silage occupying the same space contains two and one half times the digestible nutrients.

Silage as a milk producer compares very favorably with the other more concentrated and more expensive feeds. It is a very palatable and succulent feed and in the corn belt can be very aptly termed the great substitute for pasture. We all look forward to the increased milk flow when the cows are turned to pasture in the spring, after having received nothing but dry feed for six months. The milk cow is a sensitive animal at hard work and should be nurtured on the best feed possible. Silage makes possible a succulent feed for winter use, spurring the appetite of the cow and causing her to relish her feed in winter as well as summer.

At the Ohio Station several years ago the substitution of silage for grain in the ration proved very successful. Silage was used to take the place of over half the grain ration and was found to be much cheaper. The silage ration produced milk for 68 cents per hundred pounds, and butter-fat at the rate of 13 cents a pound. The grain ration produced milk at \$1.05 per 100 pounds, and butter-fat for 22 cents per pound. This made the profit per month of the silage fed \$5.86, and those of the grain fed \$2.46, or more than double the income of the cow.

Did any of us ever realize any pleasure in going out into the field on a cold stormy winter day to dig corn fodder out of the snow? Many times it is frozen and must be chopped, which requires time and patience. How much better it is to feed the cows in half an hour and use the rest of the day getting acquainted with the family and reading the dairy and agricultural papers.

There is usually a time during every summer when the pastures dry up, due to lack of rain and the hot, dry winds. The dairyman should be prepared with something at this time to keep the milk flow up, and a soiling crop or silage is the most available substitute. Soiling crops require too much labor, as they must be cut and hauled every day. This leaves silage as a remaining substitute. Charles L. Hill of Guernsey Farm says that he feeds silage 365 days in the year. He further states that his cows relish their silage even when supplied with good pasture grass. We find that a silo placed near the barn makes it convenient for feeding. There is very little waste and the animals consume the entire bulk. Being damp it hangs together well, and thus does away with any dust or dirt.

In constructing a silo there are many things to be considered. The most important of these are shape, capacity, efficiency and durability, cost and location. Practice has shown that the square silo is not efficient. The pressure of the silage outward and downward is so great that the walls are spread and air is admitted. The round silo is the only one used at present with success. Less lumber is required to build a circular silo of like capacity than a square one, and the material need not be so strong to prevent bulging. Thus the round silo has the advantage both in capacity and economy of construction.

In regard to capacity the silo should be constructed with reference to the size of the herd and the length of time you wish to feed silage. Each cow will consume from 35 to 40 pounds per day, and if fed silage for 200 days should consume four tons per year. Figuring from this a herd of ten cows will require a 40-ton silo; fifteen cows a 60-ton silo, and 50 cows a 200-ton silo, etc. Quality of silage improves as the depth increases, due to the weight above. A large per cent of mouldy silage found near the

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top of the silo proves that a certain weight is necessary to compress the silage and exclude the air. A silo should be at least thirty feet deep with a diameter gauged by the size of the herd. In order that silage may be fed in good condition about an inch and a half should be used each day in winter and three inches in summer. It is not advisable to have too great a diameter under any conditions, as the silage gets too far from the door and requires too much labor in moving.

It is all important that silage be perfectly preserved, and this depends on whether or not the silo is air tight. There are many types of silos upon the market today. Stone, brick, tile, cement, and stave silos are all used with success. In the northern section some trouble with freezing is experienced. This can be eliminated to a great extent by tightly packing the walls. To facilitate close packing the walls must be straight and smooth on the inside and free from shoulders and abutments of any kind. The admission of air or the presence of air pockets allows fermentation to take place which spoils the silage.

The success of the silo depends first upon its strength, and second upon the durability of the material used in the construction. To be durable any material must resist the action of the weather and the constant wetting, drying, freezing and thawing which takes place both inside and outside the silo. During the summer the silo is generally empty and must be built exceptionally strong because of its height, in order to resist storms during this season. It is desirable that the silo cost as little for repairs as possible and the one that must be adjusted for shrinkage and expansion is of less value than the one that needs no such attention. The silo should always have a roof which not only preserves the silage but also braces the walls at the top.

The next consideration in connection with the silo is the location. Convenience is the most important factor. If used for milk cows it should be a continuation of the feeding alley and located just outside the barn. A silo inside the barn has several disadvantages; it is difficult to fill, it is a waste of barn room and the odor of the silage should be kept out of the barn as much as possible, as milk easily absorbs all foreign odors.

There are no specific directions as to how corn should be planted for silage purposes. If planted too thickly, however, the ears do not mature, so that about one-third more than usually planted for grain should give satisfactory results. Corn should be cut for the silo just before the leaves begin to wither and dry up, allowing the ears to mature as much as possible. If cut too green a large portion of the food elements are lost and the silage is apt to sour. It is not necessary for a silo to be filled in a day or even a week, but just fast enough to prevent any mold forming on the surface exposed to the air.

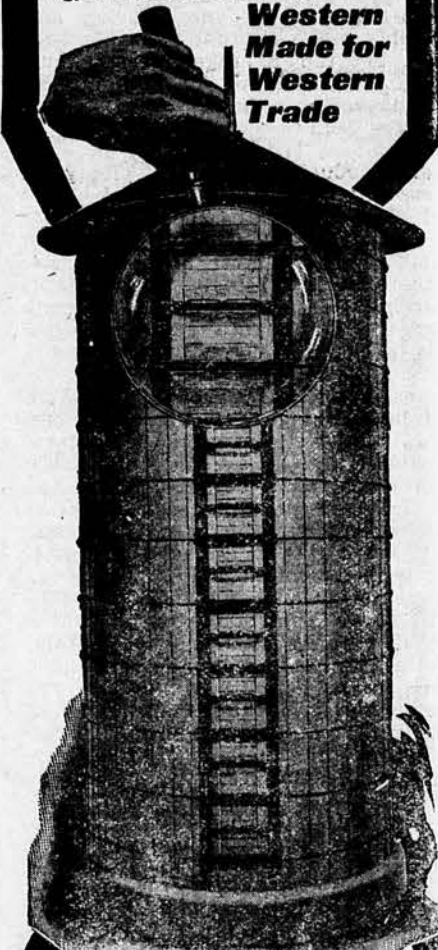
Silage does not furnish anywhere near a balanced ration, being particularly low in protein, but it is invaluable as an ingredient in the ration of every dairy cow. The milk a cow gives contains on the average about 87 per cent water, and thus a large producing cow must consume a large amount of succulent food and pure water. For an appetizing, succulent and economical feed, the ordinary corn silage that can be grown so abundantly in Iowa, Illinois, Nebraska, Kansas, and in fact nearly all the large dairy states, holds an invaluable position.

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question
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HOME CIRCLE



The Heart.
(From the German of Neumann.)
Two chambers bath the heart
Where dwell
Both joy and pain apart.

When Joy wakes in the one,
Then sleeps
Pain calmly in his own.

Oh, Joy thyself restrain;
Speak softly,
Lest thou awaken Pain.
—Charles Houston Goudiss.

It is said that rubbing a lamp chimney with salt after it has been washed will give it great brilliancy.

It is said that adding a little vinegar as well as salt to the water when washing eggs will keep them in shape.

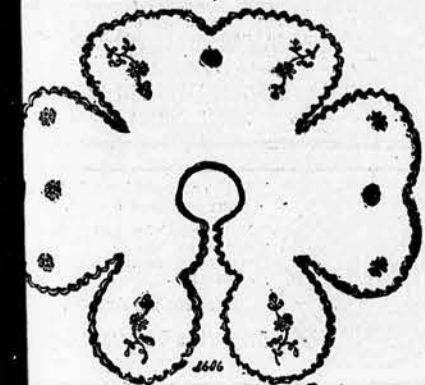
It is said that borax added to the water in which flannels are to be washed will keep them in fine condition and prevent their shrinking.

Try boiling the lamp chimney in strong vinegar for about five minutes to keep it from smoking.

It is said that silk or cotton laces which have become yellow from age can be whitened by covering with soap and laying them in the sun.

1606. Baby's Kimono.

Hand embroidery is always effective and appropriate for infants' garments. The design here portrayed is suitable for flannel, silk or cashmere.



It may be worked in eyelet or solid stitch. Stamped on flannel, price 35 cents; perforated pattern, 25 cents; transfer pattern, 10 cents.

8808. A Comfortable Negligee.

This neat little dressing sacque has many practical features. It may be fastened with square neck opening or with the turn over collar, and the sleeves may be made in either of two lengths. The 3/4 inch tucks in front give a pleasing amount of fullness, as



8808

as serving as a simple trimming. The pattern is cut in 6 sizes: 32, 34, 36, 38, 40, 42 bust measure. It requires 2 1/2 yards of 36 inch material for the 36 inch size.

Pattern of this illustration mailed on any address on receipt of 10 cents in silver or stamps.

Timber from the Philippines was selected as the most durable wood for building the mausoleum for the late Emperor of China, after the forests of the Orient had been searched for this purpose.

If the oven door is left open after the baking is finished until the oven has cooled, much rusting of the oven can be prevented. When the door is closed immediately after the removal of the food the steam is confined in the oven and soon changes to moisture and causes it to rust out quickly.

Every housekeeper takes pride in the appearance of her table and one of the first things to be considered is nice looking table linen. The finest linen will not produce these results unless well ironed. Instead of sprinkling the linen before ironing it, try this plan. After it has been thoroughly dried dip it in hot water and run through the wringer. Fold smoothly in a dry cloth for an hour or so. Then use hot irons and the result will more than repay for the extra time and trouble.

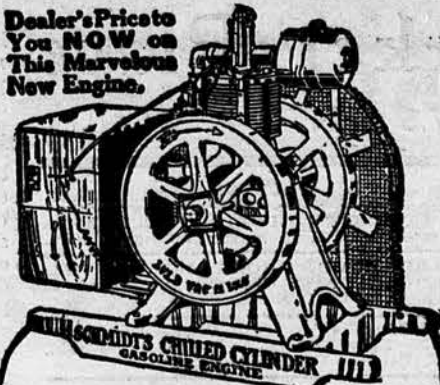
There are many stories told of the origin of our famous songs. The following is told of "The Girl I Left Behind Me." A British army bandmaster was a great flirt and always when his regiment was being transferred he was busy at the station bidding goodbye to some young woman who had fallen a victim to his charms. Finally, the story runs, a member of the band, in sarcasm, wrote the song and it was played whenever the bandmaster rejoined the regiment. So, in time, it became the "marching-out" tune of the entire British army.

Increasing Productiveness.

It is a well known fact that in countries where the population is greatest per square mile of territory, and the farms are consequently small on the average, the farmers raise more per acre. They are more particular in the preparation of the seed bed, properly planting the seed, being sure that the best seeds are selected, and that the soil is enriched and provided with fertilizers that insure the largest yields. These farmers do not take chances on implements. They purchase only those of known worth—the ones that have been thoroughly tried out. When an implement has stood the tests imposed upon it by thousands of different people in all parts of the world, it is a sure indication that the machine is all right and that it has done, and will do all that the manufacturers claim for it. That is exactly the position the Buckeye Grain Drill is in. These grain drills have been constantly used for more than fifty years by successful grain growers in every part of the world where grain is grown. This proves that there is manufactured a Buckeye Drill that can be relied upon to meet any seeding condition anywhere in the world. The farmer who wishes a hoe drill, shoe drill, single disk drill or double disk drill—the man who wants to use his grain drill for planting beets, peas, Lima beans, red kidney beans, sorghum, bearded oats, treated wheat, flax, rape, millet, grasses, clover and alfalfa; the farmer who wishes to sow commercial fertilizers with his crop; those who want a plain grain drill or a press drill—can get in the Buckeye line the drill that will do the work in the best possible manner—in other words, do it right. It is so strongly guaranteed that the purchaser is just as safe in ordering as in buying government bonds. The Buckeye is manufactured by The American Seeding-Machine Co., Incorporated, Springfield, Ohio. Write them for a Buckeye catalogue and then go to your nearest implement dealer and ask to see the Buckeye Drill.

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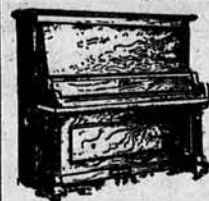
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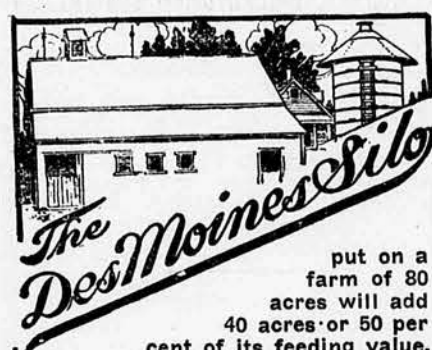
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We teach you by mail to stuff and mount all kinds of Birds, Animals, Game Heads. Also to tan skins and make rugs. Decorate your home with your beautiful trophies, or command big income by selling specimens and mounting for others. Easy, quickly learned in spare time by men and women. Success guaranteed. Write today for your free book "How to Mount Birds and Animals" absolutely free. R. W. SCHOOL, TAXIDERMIST 3889 Elwood Bldg., Omaha, Neb.

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, 25 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, Farmosa, 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

R. G. Sollenbarger. Catalogs ready.

BARGAINS IN LANDS

LIVE REAL ESTATE AGENTS WANTED

I want the help of some "live wires" to sell some Colorado Irrigated Land. This land is within 150 miles of the Kansas line. It has water on it now, an unfailing supply for every need. The land is exceptionally good. This is one of the best land propositions now open for sale. It is a straightforward project—one of the most highly meritorious ever developed. All available land will be readily sold. It is desired to sell all that is for sale by March, 1911. The price is right—so are the terms of sale. Liberal cash commissions paid; literature furnished free. Also conveyance to and from the land from railroad station two miles away. Besides, this is being widely advertised in western papers. I MEAN BUSINESS. WRITE ME TODAY FOR FULL DETAILS.

E. L. GARVER, Box 142, Topeka, Kans.

TWO EASTERN KANSAS LAND SNAPS

To be cut up and sold: 2270 acres creek bottom and slope land; nearly all good farm land; within driving distance of Topeka. Can be bought from \$25 to \$50 per acre. Easy terms. If interested write

BALDWIN & CATE, Manhattan, Kansas.

COME TO FORD COUNTY AND GET RICH

Come to the famous Ford County Wheat Belt, where two crops pay for the land. If I do not show you that this is true I'll pay your fare for the round trip. Best of climate, soil and water. Descriptive price list upon application.

G. L. PAINTER & CO., Dodge City, Kansas.

EASTERN KANSAS GRAIN AND STOCK FARM.

400 acres, 5 1/2 miles from Osage City, Kan., 100 acres in cultivation, 10 acres good timber, 8 acres good orchard, balance native grass pasture and meadow, 5 room house, good cellar, 2 good barns with loft, granary, hen houses, hog and cattle sheds, plenty of good living water, R. F. D. and phone. Price \$35 per acre if sold by Feb. 1. This is a bargain. Act quick. For particulars write

J. C. RAPP & CO., Osage City, Kansas.

EASTERN KANSAS FARMS \$35 to \$75 per acre; also have mdse. to trade for land; we are doing a general exchange business. Richmond Land & Loan Co., Richmond, Kan.

160, WELL IMPROVED, in Eastern Kansas; want merchandise or good rental property. BOX 123, Richmond, Kansas.

1120 ACRE COMBINATION RANCH. 25 head horses and colts above average, and one registered Percheron stallion. Write for particulars. 80 acres first-class alfalfa land in famous Artesian Valley at a great bargain. WM. MILLER, Meade, Kan.

IF YOU ARE INTERESTED IN CENTRAL KANSAS, WESTERN KANSAS OR COLORADO LAND FOR A HOME OR INVESTMENT, STATE YOUR CHOICE TO C. C. WALLACE, BROOKVILLE, KANSAS.

YOU'LL LIKE LINN COUNTY, KAN. We have abundant coal, wood, natural gas and good water. The land raises magnificent crops of alfalfa, timothy, clover, bluegrass, oats, corn and wheat, R. F. D. and phone at your door. Price \$20 to \$80 per acre. List free. A. E. ROOT, Pleasanton, Kan.

200 ACRES, 10 miles from Delphos, 40 a. pasture, 160 in cultivation, 175 can be cultivated, creek, plenty of fruit for family use. Good house, barn and outbuildings. One of the best corn and alfalfa farms; can be bought for \$75 per acre; 1/2 cash, balance 6 per cent. Box 114, Minneapolis, Kansas.

GOOD SECTION LAND TO TRADE. 640 acres 6 miles from Liberal, 2 miles from Haynes; all fenced and cross fenced; other improvements; good 240 acres in cultivation; all good land; on telephone line and R. F. D.; close to school. Price \$19,200. Take \$7,500, good rental property, carry \$5,000 on land and balance cash. This proposition will stand inspection.

LAND-THAYER LAND CO., Liberal, Kan.

BUY OF OWNER—SAVE COMMISSION. A nice valley farm of 320 a., 3 mi. of Fredonia, county seat, best gas town in state, all tillable, 110 a. in cultivation, balance in meadow and pasture, good 5 room house, big barn and other improvements, free gas, also income from gas wells on farm, telephone and R. F. D. Easy terms. Buy of owner and save commission. A snap at \$42.50. Must sell. Write

LOCK BOX 807, Fredonia, Kansas.

IF YOU MEAN BUSINESS and have real estate and merchandise of any kind for sale and exchange, and are willing to pay a commission should I make you a deal, write me at once of what you have and desire. 120 acres, 9 miles of town, 50 acres in cultivation, balance good pasture, rolling, plenty water, fair house, some alfalfa, a good stock farm. Price \$25,000, \$5,000 cash, balance 6 per cent. A bargain. Good Smith county land for sale. Carl G. Anderson, Athol, Kan.

A BIG SNAP. .840 a. 5 1/2 miles of Spearville, 300 a. creek bottom, first class alfalfa land, 160 a. in cultivation, 500 a. farm land, balance pasture, fenced, some timber, creek runs through one corner. Price \$14 per a.; \$4000 cash, balance good terms.

STINSON & SHELTON, Spearville, Kansas.

SELLING A MONEY-MAKER.

For quick sale at \$20 per acre—A half section in S. W. Nebraska; fair improvements; house of 3 rooms, stables, chicken house, well and windmill; also other out-houses, including hog sheds. This place is already to move on to and go to work; only missed two crops in 25 years and none at all in last 14 years. Old age only reason for selling. Priced at \$20 per acre for quick sale. Write at once to

JACKSON R. E. CO., 1327 Quincy St., Topeka, Kansas.

TO EXCHANGE FOR FARMS—A general store, a hardware, a fine residence property, a large hotel, all choice properties in good towns. 320 acre stock farm, well improved and watered, near Anthony, 60 acres alfalfa. A bargain with liberal terms. Smithsonian-Holiday Realty Co., Anthony, Kan.

SAY Buy a farm or build an agency. BUCKEYE AGENCY, Agricola, Kan.

CAN'T BEAT THIS IN KANSAS. 160 acres second bottom, 4 miles town, large 8-room house, barn 36x40, bearing orchard, good water, near school; must be sold. \$10,500. T. B. Godsey, Emporia, Kan.

O. U. BARGAIN HUNTER! Three fine quarters at \$47 per a., 4 mi. out; 3 choice half sections, \$40, \$45, \$50 per a., 3 and 4 mi. out. Snap. Two elegantly improved, highly cult. farms joining city, \$100 per a. Many choice trading propositions.

O. E. LOWER, Herlington, Kansas.

THE BEST TOWN TO LIVE IN. If you would like to live in the most beautiful city in the West, with unsurpassed education, business and religious advantages, in a city clean, progressive, where real estate values are low, but steadily advancing, where living expenses are reasonable, a city with natural gas at lowest price, address the

SECRETARY of the COMMERCIAL CLUB, Topeka, Kansas.

NEOSHO VALLEY FARMS. We have for quick sale unusual bargains in well improved farms in the rich Neosho River Valley from 80 acres and upwards, located near the city of Emporia, Kan., which has the State Normal and the College of Emporia. We also have several suburban orchard and garden tracts from 20 to 80 acres, close in, that will afford nice homes and investments. For particulars and prices address

THE HEATH COMPANY, Topeka, Kansas.

FOR SALE

1,700 acres of my 4,400 acre ranch in Kearney county, Kansas, on the Arkansas River and Santa Fe R. R.; 700 acres alfalfa land, 60 acres in alfalfa; all fenced with three and four wires; 5 room frame house stone basement; barn 25x50 feet, part stone basement; stock sheds with iron roof, all well built and 300 yards south of Sutton Flag Station; wells at house, barn and in pasture. Reason for selling: Too big for my foreman to look after. John Shinkle will show place. Price \$20 per acre net to me.

H. H. SMALLEY, Springfield, Mo.

LOOK AT THIS

80 acres, 4 miles to town, 1/2 mile to school, 6 room house, good orchard, shade, 2 wells, 60 acres cultivated, 20 acres pasture; every foot can be plowed; lays nice, no rough land. Price \$2800.

A. P. ROSA, Galesburg, Kansas.

IMPROVED Anderson county corn, wheat, oats and alfalfa farms at \$40 to \$60 per acre. Write for our free list. Also good exchange propositions. Rice-Daniel Land Co., Garnett, Kan.

A SNAP

70-acre improved farm, 7 miles west of Lawrence, Kan., 20 miles from Topeka, 1/2 mile west from Buck Creek station, on main line of Union Pacific, all above any flood, is all Kaw bottom and is all in wheat, 1/2 mile to school. This is one of the finest farms in Kansas; none better. This farm must sell before March 1. Want offer. For information, call on or address

L. E. ANDERSON

800 North Kansas Ave., Topeka, Kan. Ind. Phone 1847.

FOR SALE—Eastern Kansas black prairie corn, alfalfa and clover farms. Some exchanges. Write today for free list and map. G. T. KINSEY, LeRoy, Kan.

IF you want a bargain write for free list of Anderson county farms. You want a trade list with us. Holcomb Realty Co., Garnett, Kan.

NESS COUNTY, KANSAS.

If you want wheat land, if you want alfalfa land, if you want pasture land, if you want improved land, I've got it. If you will write me just what you want, I will find it for you at prices that can't be discounted. J. G. COLLINS, Ness City, Kansas.

SEVERAL good farms to trade for stocks of merchandise and land to exchange for city property. Land in the fertile Gulf Coast of Texas, \$20 per acre, on payments; fine climate and farmers get rich in a few years. We go down twice a month. Write me for particulars. Henry G. Parsons, Lawrence, Kan.

ANDERSON COUNTY.

320 a., 140 in cultivation, bal. pasture and mow land, good soil and water, seven room house, large barn, cribs, etc. Five miles to R. R. station. Price \$35 per a. Terms easy. A snap. Write for full information. GEO. W. ILLER & SON, Garnett, Kansas.

IF YOU are in the market for the best farms in Southeast Kansas at the very lowest prices, see us. We handle nothing but the best. We are also handling some very fine fruit, grain and stock farms in Washington Co., Ark. Our customers our references. Smeltzer & Co., Iola, Kansas.

160 ACRES level second bottom, 4 miles from county seat, 100 acres under plow, 11 acres alfalfa, running water fed by spring, 5 room house, barn for 6 horses, large hay shed and other good improvements; good bearing orchard. Price \$65 per acre; easy terms. Joseph D. Ryan, Abilene, Kan.

FRANKLIN COUNTY BARGAINS

Well improved farms \$35 to \$75 per acre. Write for list. PRINCETON LAND CO., Princeton, Kan.

A CHEAP DAIRY FARM.

Located 1 1/2 miles from the city limits of Wichita, Kan., containing 120 acres of very rich and productive land, 25 acres fine alfalfa; 65 acres in a high state of cultivation; balance pasture and meadow; good 6-room house, large barn, granary, corn crib, chicken house, some cement floors, fine well of water at a depth of 20 feet, large cement water tank, all buildings nearly new and good, all fenced and cross fenced; fine orchard of all kinds of fruit. Price \$100 per acre.

EDWIN TAYLOR REALTY CO., 107 South Main Street, Wichita, Kansas.

FARMER WANTED To buy 240 a. at \$60 per a.; \$4400 cash, balance to suit, joins town granary on R. R. right of way. Phone, free gas.

B. H. DUNBAR, Tyro, Kansas.

KAN. AND OKLA. FARMS—City property, mdse., livery barns, etc., for exchange. Real Estate Exchange, Coffeyville, Kan.

SOME splendid bargains in Famous San Luis Valley. Cline Land Co., LaHarpe, Kan.

WHAT have you to trade for lands or city property? Hale, Coffeyville, Kan.

SIXTY ACRES, Improved, 1 1/2 miles Ottawa. Splendid water, on main traveled road. A snap at \$4,200. Will give terms. Write for full description and list of farms for sale.

MANSFIELD & CO., Ottawa, Kan.

JOHN W. BAUGHMAN

LIVE AGENTS WANTED to sell town lots in Best Little City in Southwestern Kan. Prices \$12.50 to \$50. Easy monthly payments. Best selling proposition ever placed on the market. Good commissions. No Experience Necessary. Full instructions. You can sell them. Write me today. JOHN W. BAUGHMAN, Plains, Kansas.

PLAINS TOWN LOTS

LAND OUR NATURAL WEALTH

"Buy land and cultivate it. Protect the soil and handle it intelligently—and you have a mine that no man can exhaust—quite unlike other mines."

This is the advice which James J. Hill, financier, railroad builder and business executive gives to the men and women of the United States.

Here is a man who manipulates the wealth of cities but who points a prophet finger toward the undeveloped wealth of the country.

Pickering, Vernon Parish, Louisiana, has more natural assets than any other land section for sale in America today.

These are: The healthy, high altitude of an upland parish; an abundance of clear, running streams and fine springs; the absence of stagnant water; the natural grasses which offer forage for stock of all kinds at all seasons of the year; the vast number of varied products which the fertile soil and favorable climate of the protected Gulf Coast region produces.

Also, an annual rain fall of from 45 to 50 inches, so distributed as to be especially favorable for crop productions throughout a long growing season. All the fuel you can use, for the hauling—and lumber for building at wholesale mill prices.

This is a true wonderland where anything that man needs can be made to grow and where many of the city luxuries are native.

Fruits, nuts, grains, forage and cotton grown in this section are second to none.

The truck growing industry has here the opportunity of a constant season, two and three crops, a near and ready market and excellent transportation facility.

This is not an untried experiment. The land offered for sale by the Pineland Manufacturing Company is proved land as shown by the Grannis Plantation, which is the "Demonstration farm" of this Company.

The titles to all land are good and guaranteed. The price for an acre is but \$15 now and the terms will be satisfactory to you.

Here is a great natural opportunity, and there will never be another such crop of good, cheap land in the United States. For Free booklet write to

J. D. LABRIE, GENERAL LAND AGENT

668 Keith & Perry Building, KANSAS CITY, MISSOURI

WRITE US TODAY for list of Montgomery Co. improved farms, \$35 to \$55 per acre. Foster Bros., Independence, Kan.

GET OUR BOOK OF 500 FARMS and properties everywhere to trade. Grannis Bros., Eldorado, Kan.

IMPROVED FARMS in S. W. Kansas on N. W. Oklahoma, \$10 to \$25 per acre. Write Moore & Falls, Liberal, Kan.

SOUTHERN KANSAS FARMS for sale. Your terms are ours. Write to the Benton Land Co., Benton, Kan.

MONTGOMERY COUNTY LAND—Write today to Foster Bros., Independence, Kan. for list and map. Oldest realty company in southwest Kansas.

CHOICE FARM BARGAINS

I want some straight-buyers for a few choice \$0, 120, 160 and 320 acre farms in Central and Eastern Kansas. I have some good combination stock farms and ranches that are good bargains. Write me describing fully what you want. Have some large places to trade for smaller.

J. M. McCOWN, 516 Commercial St., Emporia, Kansas.

LIVE AGENT WANTED

In your locality to assist in selling corn wheat and alfalfa land. We own thousands of acres in Pawnee and adjoining counties. Write for proposition on our own ranches.

FRIZZELL & ELY, Larned, Kansas.

A BARGAIN—640 ACRES.

240 a. fine bottom land in cultivation, 160 a. mow land, 330 acres pasture, good house of 7 rooms, barn 40x80, cow stable 30x40, granary 12x30, corn crib for 3800 bu., plenty of shed room, 4 good wells; place well fenced and cross fenced. Price \$15,000.

E. H. JONES, Sedan, Kansas.

WANTED FARMER To buy 240 a. at \$60 per a.; \$4400 cash, balance to suit, joins town granary on R. R. right of way. Phone, free gas.

B. H. DUNBAR, Tyro, Kansas.

READ THIS BARGAIN

160, Anderson county, Kansas, joining small town, 120 cult., 30 timothy and clover, 7 room house, barn, etc. Price \$8,000. 160, 2 1/2 miles of Welda, Kan.; 60 cult. balance meadow; all tillable; no buildings \$5600.

SPOHN BROS., Garnett, Kansas.

MARSHALL CO., KANSAS, LAND—48

acres, 3 miles from town, 160 acres under plow, 70 acres in alfalfa, balance good limestone subsoil pasture; 9 room house, horse barn, stone cattle barn 30x140, some timber, and elegant spring. No better stock farm in the county; good orchard. \$55 per acre. Terms to suit purchaser. E. J. Dewey, Blue Rapids, Kan.

DICKINSON COUNTY BARGAIN.

Think—160 a. of rich land that lays well only 2 miles from Enterprise and 1/2 mi. to school, with 60 a. fine bluestem pasture and meadow and the balance good corn and alfalfa land, fine 8 room two story house large barn, granary, chicken house; splendid water piped to barn; mtl. large orchard all fenced, on main road. This is an excellent home and must be sold, so act quick! Price \$5 an acre. Good terms. MELVIN E. SMELTZ, Enterprise, Kansas.

McPHERSON COUNTY, 160 ACRES.

Five miles of McPherson, 7 room house barn for 10 head, 140 in cult., 1 mile to school, 1 1/2 to station, R. F. D. and phone. Price \$13,500. Terms

BREMYER & BRUBAKER, McPherson, Kansas.

WHEAT! WHEAT!—160 a. smooth level land, 70 a. wheat, all goes, bal. good grain all can be farmed; fenced and cross fenced, well, windmill and tank; good school close, 7 1/2 miles of town; good neighborhood, price for quick sale \$3,300; \$1,000 cash, good terms on balance. No trades. Stinson & Sheldon, Spearville, Kan.

WE HAVE for sale for a few days a beautiful 5 acre tract, one mile from center of this city, with nice improvements, 5 or 6 room house and good outbuildings, fenced in good shape, a dandy home, just the place for chickens, cow and pigs and garden truck. Price \$3500; will take \$1000 in trade. C. V. Hinnen Realty Co., Holton, Kan.

SEED POTATOES, SEED CORN OATS AND ONION SETS

Send for our **SEED CATALOGUE** all kinds of
FIELD AND GARDEN SEEDS.
HAYES PRODUCE CO. 524 N. KANSAS AVE, TOPEKA, KAN

14--IMPORTED STALLIONS FOR SALE--14



The above cut shows you a view of our barns and fourteen head of our Imported Stallions, that we can sell at very reasonable prices. If you are thinking of buying an Imported Stallion or some Imported Mares of either Percheron or Belgian, we can show you as good a bunch as you can find. We know that we can fill your entire satisfaction. We spent two months in France and Belgium personally and carefully inspecting and buying these horses. We bought only the best; we can sell you the best. They range in age from two to five years old—with heavy bone, drafty type, the kind that are in demand at the present. Our prices are very reasonable, considering the quality and breeding. Our guarantee is very liberal. All we ask is that you come to our barns, and pick out the horse you want, then we will make the price and terms to suit you. Be your own judge. Buy the horse you want. We have them. Come and see us, we can do business. Barns right in town. All trains stop.

W. H. RICHARDS, EMPORIA, KAN.

Organized Agriculture.

(Continued from page 1.)

from time to time in KANSAS FARMER and other agricultural publications.

The twenty-first annual meeting of the Kansas Improved Stock Breeders Association was brought to a close in a most happy and satisfactory manner in the lunch and smoker which was given by Kansas Farmer Company at the Commercial Club rooms on Wednesday evening. To this function were invited all the members of the association, the members of the State Board of Agriculture, with such members of the Legislature as could attend. The Topeka State Journal, in commenting on this function, says: "The lunch and smoker at which Kansas Farmer Company acted as hosts, was the culminating feature of the meeting of the Kansas Improved Stock Breeders Association. The stockmen expressed themselves as being of the opinion that the convention program just completed was one of the strongest in the history of their organization."

The Kansas State Board of Agriculture held its fortieth annual meeting beginning on Wednesday, January 11. There is perhaps no institution of the kind in the world that has such a reputation as has this body. The statistical matter issued from its office has been of high value to many classes of people in different parts of the world as well as to our own citizens. The Board of Agriculture does not change rapidly in its personnel, and its present membership is made up of men who have been active in its affairs for very many years.

The program of this year's meeting was fully equal to any that has ever been offered in the past. As agriculture in the Kansas sense means homemaking, the subjects presented cover a wider range than would be possible or desirable on the programs of other meetings held during the same week. One of the strong features of the program centers about the idea of the home, and the papers by Mrs. Mary Pierce Van Zile, dean of women at the Agricultural College, who discussed "Efficiency, the Key-note in the Education of Our Girls," and by Dr. Edna D. Day, of the department of home economics of the State University, more than paid for all the trouble and expense of the meeting. Allied with these in the home interests was the "Conservation of the Country Church" by Rev. Duncan C. Milner of Chicago; "The Story of My Farmer Boys," by Will B. Ottwell, Carlinville, Ill.; and "The

Growing of a Human Plant," by the Rev. Frank L. Loveland of Topeka, gave an added value to this interest and to the program. Other papers were more or less of technical and professional interest to the farmers and will find place in the columns of KANSAS FARMER.

This meeting was one of the successful ones of this board, and those who attended carried away from it pleasant memories of a profitable and well spent season.

KANSAS LAND

BOURBON COUNTY

80 acres 5 miles Fort Scott, 5 room house, good barn, \$45 per acre. 160 acres 7 miles Fort Scott, good 5 room house, fair barn, no waste land. Price \$40 per acre. 160 acres 9 miles Fort Scott, good 6 room house, good barn and outbuildings, plenty fruit, \$35 per acre. Write me for further information.

GEORGE N. BAINUM, Fort Scott, Kansas.

MONEY MAKER FOR \$2,500 CASH.

160, one mile from good town, well fenced, 500 rods woven wire, well watered, six-room house, good barn, good young orchard. Price \$6,000. Will carry \$3,500 five years at 6 per cent. Also have 160 well improved stock farm, \$56,000.

DONAHUE & WALLINGFORD,
Mound Valley, Kansas.

320 Acres at \$50 Per A.

285 a. in cultivation, 11 room house, fine condition, fine barn for 18 head stock; 1000 bu. grain, 40 tons hay; other shed and corals; good orchard; alfalfa; hog tight pastures; 13 miles of Topeka. Can't buy any land adjoining for less than \$65 per acre.

FOX-COOK AGENCY,

104 West Eighth, Topeka, Kansas.

When writing advertisers please mention KANSAS FARMER.

A HOME AND MONEY MAKER.

160 acres all level; 120 in wheat, one-third goes; one mile to railroad town; six room house, good barn, new. \$7,800. One-half on time. Investigate this. Send for our large list of farms.

BROWN, GRANT &
WALTER,
Kingman, Kansas.

FOR SALE—120 acre farm 40 miles south Topeka, 2 miles of railroad town in Osage county; 20 acres in corn, 1910, balance in alfalfa, clover and native meadow; farm well fenced and in first class condition with fair improvements. Price \$55 per acre with \$1,000 cash; rest on long time at 6 per cent interest; will sell to good party and furnish money to stock it with hogs and cows on partnership basis. A. G. Epler, Owner, Room 601 New England Bldg., Topeka, Kan.

See our Great Farm Library Offer on page 6 of this issue.

COLORADO LAND

KIOWA COUNTY, COLORADO,

corn, wheat and alfalfa lands \$8 to \$15. Homestead relinquishments \$250 up. Folder and copy of the Homestead Laws sent free. A few 160-acre homestead tracts under prospective irrigation yet. THE WESTERN REALTY CO., Eads, Colo.

SPLENDID CROPS

in Saskatchewan (Western Canada)

800 Bushels From 20 Acres of wheat from the thresher's return from a 100-acre farm in the season of 1910. Many fields in that as well as other districts yielded from 25 to 35 bushels of wheat to the acre. Other grains in proportion.

Large Profits are thus derived from the FREE HOMESTEAD LANDS of Western Canada.

This excellent showing causes prices to advance. Land values should double in two years' time.

Grain growing, mixed farming, cattle raising and dairying are all profitable. Free Homesteads of 160 acres are to be had in the very best districts; 160-acre pre-emptions at \$3.00 per acre within certain areas. Schools and churches in every settlement, climate unexcelled, soil the richest; wood, water and building material plentiful.

For low settlers' railway rates and illustrated pamphlet, "Last Best West," and other information, write to Sup't of Immig., Ottawa, Can., or Can. Gov't Agt.

J. S. CRAWFORD,
125 West 9th Street
Kansas City, Mo.

FOR SALE.

1,000 acre farm in southern Arkansas. One mile from R. R. Station and P. O. Will make good stock farm. Part is a fertile creek bottom soil. If taken soon \$12,500 will buy it.

J. R. WINN, Mt. Vernon, Ill.

FREE TO FARMERS

By special arrangement Ratekin's big 1911 seed catalogue, with a sample of "Diamond Joe's Big White" seed corn that made 153 bushels per acre, will be mailed free to every reader of this paper who are interested in the crops they grow. This big book tells how to make the farm and garden pay. It's worth dollars to all who plant or sow. Write for it and mention this paper. The address is KATEKIN'S SEED HOUSE, Shenandoah, Iowa.

10,000 SEEDS 10c.

We want you to try our Prize Seeds this year and have selected 50 best varieties and put up 10,000 seeds especially to grow Prize Vegetables and Flowers. They will produce more than \$25. worth of Vegetables and 10 bushels of Flowers.

800 Seeds Cabbage	3 Best Varieties	3 pkts.
2,600 " Lettuce	4 " " "	4 " "
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IMPROVED corn, clover and bluegrass farms 48 miles south Kansas City. \$50 to \$75 per acre. Jot M. Wilson & Son, Harrisonville, Mo.

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160 acre farm 2 1/2 miles of R. R. town and 5 miles of county seat, 10 a. in cultivation, 40 a. pasture, 10 a. mow land, 6 a. orchard, 5 a. alfalfa, good 6 room house, small barn and granaries, all fenced, 2 fine wells of water, fine grape vineyard, 1/2 mile to school, farm drains well. Price \$7,000. Immediate possession. One-half cash will handle this. Write for our land list.

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POCKET MAP OF OKLAHOMA FREE to anyone sending us the address of five farmers who expect to change their location Caddo County Farm Bargains.

BALDWIN & GIBBS CO.,
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200 choice farms in N. E. Oklahoma. Low prices and easy terms. Write for map and price list.

LEAVITT LAND COMPANY,
Vinita, Oklahoma,
Agents Wanted.

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A FORTUNE IN 40 ACRES

An irrigated forty acres in the Lower Pecos River Valley of Texas will provide a fortune for any family as well as a model home. In an ideal, all the year around climate. It will pay 100 per cent annually on present cost of land, including water rights. If interested, write at once to

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TO PECOS PALISADES, TEXAS.

As a special inducement to get you to join me on a trip to Lower Pecos Valley January 17, I will pay for your ticket if you bring three men into my office to go with you. I am selling irrigated land under a completed project. Get away from the cold weather. The sunshine valley of the Pecos is calling you. Write for details. W. R. DRAPER, General Agent Pecos Palisades, 10th and Baltimore, Kansas City, Mo.

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THE BEST IMPORTED HORSES, \$1,000 each. Home-bred, registered draft stallions, \$20 to \$600 at my stable doors. Address **A. LATIMER WILSON, Creston, Iowa.**

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I have on hand a large collection of the best stallions the world produces. I have the best line of big boned, dapple gray and black, ton stallions that can be shown in the United States this season. These stallions measure from 12 to 14 inches below the knee and carry corresponding quality. They run in weights from 1,800 to 2,600 pounds each. I am offering greater attractions in stallions than other importers. Prices the lowest.

I have also forty big imported mares, all in foal, for sale.

W. L. DELOW,
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Cedar Rapids, Iowa.

Register your jacks in the American Jack Register. Write for blanks.



KENTUCKY MAMMOTH JACKS.
We have located at Hutchinson and will be at the fair grounds. Our first shipment has just arrived. Write for circular or come to see the best barn of jacks in the West.

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EIGHT HEAD OF JACKS FOR SALE.
Yearlings to 6 years old; 5 good mule jacks from 14 1/2 to 15 1/2 hds. jack measure; very smooth bodied; priced to sell. Come and see them.

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One of the largest number of large bone and smooth jacks in the West; 14 to over 16 hands high; prices reasonable. 40 miles west of K. C. on U. P. and Santa Fe Rys.

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JACKS AND JENNETS
20 large Jacks from 2 to 7 years old.
25 head extra good Jennets priced right. Come and see me.

PHIL WALKER,
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FIFTY JACKS AND JENNETS.
Every one a Black Mammoth 14 1/2 to 16 1/2 hands high, 2 to 7 years old. I will show you one of the best bunches you ever saw.

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Lawson is 40 miles northeast of K. C.

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PLEASANT RIDGE STOCK FARM, Sheridan, Mo. Breeders of high quality jacks. Only high class breeding stock offered and all statements in reference to stock guaranteed and we always stand for a square deal. When you buy from us you get the best. A number of very fine serviceable jacks for sale worth the money. Write or come and see us. Watch for sale date.

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JACKS—An extra fine 4-year-old jack for sale; black with white points; extra heavy bone. One 2-year-old Percheron stallion, 17 hands high, wt. 1500. Also Hampshire gilts. **C. S. LAWSON, Ravenwood, Nodaway Co., Missouri.**

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To close out breeding stock, will offer 2 registered Percheron stallions, 1 registered saddle stallion and 5 black mammoth jacks of Mo. and Kentucky blood, from 2 to 6 years old; from 15 to 15 1/2; standard; registered. **J. E. PARK, Cameron, Mo.**

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Five extra fine jacks for sale, one 5 years old, one 4 years old, two 2 year old and one yearling; also three extra fine jennets. Bargains if taken at once.

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FOR SALE—15 registered Black Mammoth Jacks. Won first premiums on jacks, first on jennets and first on mule colts at Hutchinson State Fair, 1910.

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Choice registered Mammoth jacks 15 to 16 hands high; good individuals with plenty of bone and vigor and ready for service. Also one registered 2-year-old black Percheron stallion. **Bruce Saunders, Holton, Jackson Co., Kan.**

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BIG SPRING ANGUS FARM—Jasper Auldridge & Son, Pattonsburg, Mo., Props., breeders of Angus cattle and Duroc Jersey hogs. Four choice bulls and a number of choice heifers for sale. Breeding stock for sale at all times.

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Pure Blood Angus Cattle

Herd bulls: Japan Ito, Envoy 2d. Evener 2d, Jett's Hale Lad, 400 in herd. Violet's best blood; can ship on Mo. Pac. Santa Fe or Rock Island. Stock for sale at all times.

80 Angus Bulls

OF SERVICEABLE AGE.

Herd Headers and Range Bulls. Many of them by Champion Ito.

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500 HEAD IN HERD.

POLLED DURHAM CATTLE

BELVEDERE X2712-195058

Son of the \$1,500 Grand Victor X1635 150355 heads my herd of Double Standard Polled Durhams. A few extra good, blocky, thick-fleshed young bulls for sale. Inspection invited. Farm adjoins town.

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LINSCOTT JERSEYS

Offers a few choice cows in milk and some bred heifers. Milk and butter records accurately kept.

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Imported and American Bred Jerseys. Carthage, Mo.

PHIL HANNUM, JR., Owner.

I am offering a yearling bull ready for service, out of a five-gallon cow, bred along the same lines as the cow that won at the World's Fair, at a very reasonable price. Write today if you are in need, as I price stock at figures that sell them.

Grade Jerseys bought on commission.

JERSEYS FOR SALE PRIVATELY.

Bulls old enough for service sired by Beatrice Stockwell, Golden of Spring Hill and Donella's Jewell. Also cows and heifers rich in the blood of St. Lamber, Coomassie, Golden Fern's Lad, etc. Reasonable prices.

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GOLDEN RULE JERSEY HERD.

Headed by Omer's Eminent by Eminent Rosette, tracing to Golden Lad on sires, and out of the noted cow, Financial Queen. The dam of Omer's Eminent was the \$1000 cow Omer 2d by Queen's Golden Lad 62168.

JOHNSON & NORDSTROM,
Clay Center, Kansas.

TO MAKE ROOM FOR WINTER I

WILL SELL

20 HEAD REGISTERED COWS

Forty head to select from; also a few bull calves.

J. B. SMITH,
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FINE JERSEYS FOR SALE.

I have ready for service three sons of Merry Maiden's Golden Lad and one son of Susan's Eminent out of cows that will make two pounds of butter per day. I am also offering a few cows and heifers at reasonable prices. These are bred to Oxford Masterpiece.

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ELM GROVE FARM.

Shorthorn cattle and Percheron horses. Write for description and prices.

ISAAC NOVINGER & SONS
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SHORTHORNS

Five extra good Scotch and Scotch Topped bulls, 10 months old. Roans and reds, sired by Victor Archer and Forest Knight by Gallant Knight. Priced right.

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Tomson Shorthorns

Herd Bulls—Barmpton Knight and Gallant Knight's Heir. A very choice lot of young bulls and heifers for sale. Several are half brothers or sisters to our grand champion heifer, New Year's Delight. Come and see our herd or write your wants.

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R. R. Statton Willard, on R. I., 16 miles west of Topeka.

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Shorthorn cattle, large type Poland China hogs, 10 spring boars and gilts priced right. Write me your wants. I meet parties at trains. We can do business. Come and see me.

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SHORTHORN CATTLE—Richland Grove Farm, breeders of Shorthorn cattle and Berkshire hogs. Lavender Goods No. 30096 and Victor Orange lead this herd. Lavender Goods sired by White Goods; Victor Orange sired by old Victrolous. Address **H. R. Coffey, Savannah, Mo.**

NEW BUTTERGASK SHORTHORNS.

Best of breeding and individuality, representing such families as Imp. Bessie 51st, Brawith Buds, Daybreaks and Floras for sale now. The champion bull at the last Mitchell Co. State-Wide Fair; a grand good bull; 1 year old; is related to all our cows or he would not be for sale. Write for description and price. **MEALL BROS., Cawker City, Kan.**

10 SCOTCH BULLS

from 10 to 14 months old. One roan, 9 reds, sired by show bulls and out of show cows. Must be sold to make room. Priced at \$75 to \$125. These are all good. I make steers out of my poor ones. Come at once. They will suit you.

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Carload good, big, strong bulls, 8 to 20 months old. Priced right.

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EVERGREEN HOME FARM.

Lathrop, Missouri.

Milking Shorthorn cattle, bred hornless, Berkshire hogs. Oxforddown sheep, Bourbon Red turkeys. Young breeding stock for sale. A herd of 35 bred Oxforddown ewes to go at a bargain if taken at once. Address **J. H. WALKER, Lathrop, Missouri.**

8 - YOUNG SHORTHORN BULLS - 8

for sale. Scotch and Scotch Topped. Good individuals. Will sell few cows and heifers.

S. B. AMCOATS, Clay Center, Kansas.

SHORTHORNS

Bulls, cows and heifers for sale, nicely bred and good individuals, priced reasonable. Write or come and see my herd.

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by Golden Prince by Gallant Knight at head of herd; a few choice heifers for sale, excellent breeding; also Percheron stallion colts. Prices reasonable.

JOHN W. TREADWAY, Kincaid, Kansas.

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RED POLLED CATTLE.

A few choice young bulls for sale; also a few cows and heifers.

C. E. FOSTER, Eldorado, Kansas.

COBURN HERD of Red Polled cattle and Percheron horses. Young stallions, bulls and heifers for sale.

Geo. Groemiller & Son, Pomona, Kan.

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HEREFORD BULLS AND FEMALES.

Two choice Hereford bulls 10 to 18 months old sired by Enterprise (12614) dam Prairie Queen (117245) by Counsellor (71682); eight choice heifers coming two and three years old, same line breeding; prices reasonable; all in good condition. Write or come and see me.

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Brookside Farm, Savannah, Mo., breeders of Hereford cattle. Herd headed by Hesold 101st No. 162585 and Horace No. 300428, he by Beaumont. Young bulls for sale. Mail orders given prompt attention.

WARREN LANDERS, Savannah, Mo.

SPRING CREEK HEREFORDS.

Headed by Christy 234417, Prairie Donald by Beau Donald 7th, and Star Morgan by Onward 18th. Cows of Anxiety 4th, Hesold, etc., breeding, including imp. animals. Over 100 head in herd. Few choice young bulls and some good females for sale.

TOM WALLACE, Barnes, Kansas.

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SUNFLOWER HOLSTEINS.

Bull calves from A. R. O. dams, bull calves from dams producing 50 lbs. to 70 lbs. milk per day. The best of breeding, choice individuals. Service bulls that cannot be beat. Buy from Sunflower Herd, home grown, home raised, large, thrifty, acclimated. Breeding, individuality, size, markings all of the very best. Prices are right and satisfaction guaranteed. The largest herd in Kansas. The best herd in Kansas. Visit us, write us. Herd established 1907, and now comprises nearly 70 head. **SUNFLOWER HOLSTEINS** are now the pick of nearly four years careful sorting.

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Four very choice young bulls and a few cows and heifers for sale, mostly sired by Prince Ormsby, no wowed by Nebraska Agricultural College. Him dams on both sides for four generations average 20 lbs.; he has 20-lb. sisters.

J. P. MAST, Scranton, Kansas.

HOLSTEIN CATTLE—\$1425

For 8 Holstein-Friesians cows and choice of 18 bulls, all registered; all good; some A. R. O.; have to make room for young stuff. Come and see them.

S. W. COOKE & SON, Maysville, Mo.

HOLSTEIN CATTLE—Young bulls of the famous Shadybrook family and some bull calves. This herd is headed by the celebrated Sir Johanna Colantha Fayne No. 42146. No females at present. Address **M. E. MOORE & CO., Cameron, Mo.**

B. L. BEAN, Cameron, Mo., breeder of thoroughbred Holstein-Friesian cattle. A few young cows and heifers for sale; also a few young Korndyke and Johanna bulls; all choice individuals. Address **B. L. Bean, Cameron, Mo.**

Holstein—BULLS BULLS BULLS—Holstein Rock Brook Farm offers for quick sale 30 bulls ready for service. These are sons of King Hengerveld, the only son of Hengerveld De Kol, out of a 31-pound A. R. O. dam. Grandsons of De Kol Burke, sired by Inka Burke De Kol, who is a son of De Kol Burke, out of Small Hopes De Kol, with an A. R. O. record of over 24 pounds. Grandsons of King Segis, sired by one of his best sons. In all the most fashionably bred lot of Holstein bulls that were ever sent out of New York state by one man or firm. Prices are within reach of all, and we solicit correspondence. **Rock Brook Farms, Sta. R. Omaha, Neb.**

HOLSTEIN CATTLE.

The Most Profitable Dairy Breed. Illustrated descriptive booklets free. Holstein-Friesian Ass'n of America.

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DUTCH BELTED CATTLE—A few young animals of choice breeding for sale. **Springdale Stock Farm, Concordia, Kan.**

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GUERNSEY CATTLE FOR SALE—Young bulls by Eminence of Birchwood, 668 to 710 pound fat records. Stock guaranteed against tuberculosis for 6 months after sale. Largest herd in Kansas. Farm near Roxbury, Kan., and visitors welcome except Sundays.

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WILLOW BRANCH GUERNSEY FARM.

J. H. DUSTON, Prop.,

Hamilton, Missouri.

Breeder of thoroughbred Guernsey cattle. Herd headed by Tilly's Major No. 8647. Young bulls for sale, among them Major Bonnie Boy No. 3309 and two yearlings of the choicest breeding. Address **J. H. DUSTON, Hamilton, Missouri.**

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Capital View Galloways

A few choice young bulls sired by Imp. Camplower 3d of Stepford 39988 (8407) and Meadow Lawn Medalist 2375.

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Live Stock Auctioneer,
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Breeder and Trainer of Standard Breeding Horses. Breeder of the large-type POLAND CHINA Hogs. Posted on values and blood lines. Your business solicited. Special attention given to thoroughbred sales.

LET ME BOOK YOUR WINTER SALE

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Can make right terms and give satisfaction. On block or in the ring. Write, wire or phone.

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Friend, Neb.

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Fine Stock Auctioneer.

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Am selling for the best cattle and horse breeders in the West. Terms very reasonable. Write or wire for dates.

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Pedigreed Live Stock

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POLAND CHINAS**POLAND CHINAS****POLAND CHINAS****POLAND CHINAS****DESIGNER. SEARCHLIGHT**

Kansas Live Stock History Does Not Give the Names of Two More Consistently Successful Animals Than These Our Chief Herd Bull and Boar.

They and their assistant are the factor in the everyday "make good" business practice which has given us a mighty satisfactory business in

SHORTHORNS AND POLAND CHINAS.

Stock for sale at all times and prices reasonable. Look for our sale dates and send for catalogue; each year better than the year before.

C. S. NEVIUS, Chiles, Miami County, Kansas.

BIG BONED POLAND CHINAS

Summer and fall boars sired by BLAINS WONDER; ORPHAN CHIEF by Orphan; JOHN LONG by Long John. The best lot I ever raised. Get your order in early and get your pick of my herd. My next bred sow sale January 20, 1911. Send for catalog.

ROY JOHNSTON,

South Mound, Kansas.

THE MORTONS**QUALITY AND SIZE POLAND CHINAS.**

Herd headed by Equipment 5153C by Impudence. For quick sale, 20 summer and fall gilts sired by a son of Meddler 2d, bred for August farrow. Also 3 fall boars. All representations guaranteed.

THE MORTONS, Tampa, Kansas, Marion County.

SPRING BOARS

We still have a few extra good spring boars for immediate sale, sired by First Quality by Grand Chief. They will be priced right.

Can also spare a few gilts, bred and open.

YOUNG & KIMMERLING, Glasco, Kansas.

LAREDO HERD

Poland Chinas, headed by Impudence Style 123-378 and F. R.'s Meddler by Meddler for sale. 15 fall gilts bred for fall farrow and 9 other gilts.

G. W. McKAY, Laredo, Mo.

200 LARGE TYPE POLAND CHINAS

Herd headed by Big Hadley, Long John and John Ex. Young stock for sale at all times. A few choice Hadley boars.

CHARLES Z. BAKER, Butler, Missouri.

KING DARKNESS No. 149999

Heads my herd of RICHLY BRED POLAND CHINA SOWS. I have a few choice gilts and also sows bred to him for sale. A nice lot of fall pigs by Peerless Perfection 2d.

W. J. MILLER, St. John, Kansas.

18 - BRED GILTS - 18

For sale, bred to A. L. Hadley; \$25 to \$40.

A. L. ALBRIGHT,

Waterville, Kansas.

MILLIGAN'S POLANDS.

Some extra good spring boars by Voter and Perfect Mischief priced low for short time. Gilts all reserved for Feb. 22 sale.

W. C. MILLIGAN,

Clay Center, Kansas.

HARTER'S BIG KIND POLANDS

Headed by Megul's Monarch 4558 and Capt. Hutch 39068. Bred sow sale Feb. 16. 50 Bred Hutch cockerels for sale.

J. H. HARTER, Westmoreland, Kansas.

Big Type Po'and China Gilts

A few very choice ones sired by the great Wilkes Again and safe in pig to a grandson of Grand Look. \$30 each if sold soon.

J. B. WHIPPLE, Fall City, Neb.

Graner's Great Big Poland Chinas

Big and with quality. The big litter sort. Few boars left. Bred sow sale Feb. 9.

H. C. GRANER, Lancaster, Kansas.

HAVING concluded not to hold a public sale, I will offer 25 well bred, growthy gilts bred to the best and highest priced large-type young boars out this year; six 2-year-old sows bred to Grand Look.

This cross produced my best sellers in any fall sale. If you want the best that sows, come or write. Special prices on a number in one deal.

S. A. Bugg, Hamilton, Missouri.

POLAND CHINAS**BRED SOWS AND GILTS.**

Ten Strike, grand champion at the Oklahoma State Fair, 1908, heads the herd. Special prices on a few bred sows and gilts. All pedigrees furnished when hogs are delivered.

T. M. CHAMBERS, Oswego, Kansas.

BLUEGRASS VALLEY STOCK FARM. Big boned Poland Chinas. Herd headed by Big Hadley, King Ex. 3d, Long John the 2d and Missouri Wonder. Four of the best breeding boars of the breed; young stock for sale at all times; everything guaranteed.

W. A. Baker, Butler, Mo.

Highview Breeding Farm

THE KIND OF OUR FOREFATHERS. One of the big-boned spotted Polands. The only registered herd of original spotted Poland Chinas on earth. Bred sow sale February 15 1911. Ask for catalog.

E. FAULKNER, Box K, Jamesport, Mo.

THEY ARE PRICED RIGHT.

Ten Poland China boars for sale at prices from \$15 to \$20, with good bone, backs and heads.

E. M. WAYDE,

Burlington, Kansas.

REKA HERD of pure bred Poland Chinas and Duroc Jerseys. Boars all sold, but have a limited number of Poland China gilts bred for early farrow. These are good ones, priced right. Farm 7 miles north of Simpson, Kan. W. H. Sales.

ROSE LAWN POLAND CHINAS. King Darkness by Meddler 2d, assisted Shortgrass Meddler by Meddler 2d head herd of richly bred Poland China sows. Few spring gilts by On the Spot for sale.

J. MANDERSCHIED, R. 2, St. John, Kan.

WALBRIDGE POLANDS**Quality**

L. C. Walbridge, Russell, Kansas

DEER PARK STOCK FARM.

Richly bred Poland Chinas headed by the great Impudence E. L. and Noble Chief by Nobleman. Choice lot of spring pigs for sale by Impudence E. L. and Dawley's S. P. Perfection.

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POLAND CHINA HOGS.

Mastodon Poland China hogs, the big-boned type that will weigh when mature 800 to 1,000 pounds. Mastodon Price leads this herd. Mastodon Price sired by A Wonder 107356, a hog weighing in full flesh 1,200 pounds. If you want the right kind, they are at Quality Ridge Farm. A number of bred gilts for sale; all choice individuals. Phone me at Dearborn, Mo. Railroad station Newmarket, Mo.

CLARENCE DEAN, R. 1, Weston, Missouri.

DUROC JERSEYS**DUROC JERSEYS****RIVER BEND HERD DUROCS.**

Headed by Fitch's Kant by Kant Be Beat and out of a son by Ohio Chief, one of the best individuals and breeders in the state. Let me know your wants.

W. T. FITCH, Minneapolis, Kansas.

DUROCS RICH IN COL. BLOOD

Headed by G. C.'s Kansas Col., mated with the greatest line of sows ever owned by one Kansas breeder. Stock for sale at all times. Bred sow sale Feb. 14.

CHAPIN & NORDSTROM,

Green, Kansas.

SPRING BOARS AND GILTS.

Best of breeding and top quality. Some early spring boars—good, strong, growthy fellows—will be priced right. By such boars as Agra, Top Notcher, Paul Jumbo, Bonney K. and I Am a Bonney K.; also gilts of equal breeding, quality and size, priced right. Address

W. C. WHITNEY, Agra, Kansas.

SPRINGBANK DUROC JERSEYS.

Headed by W. H.'s Col., first prize junior yearling boar Hutchinson State Fair, 1908, assisted by Chief Orion, third prize aged boar.

Sow Sale—Ten tried sows by Chief Orion bred to W. H.'s Col. Come and see them.

W. H. WILLIAMSON,

Raymond, Kansas.

R. & S. FARM

150 Spring Pigs, sired by King of Kant Be Beat No. 38333, and Golden Ruler No. 80555. Write your wants. Bred sow sale Feb. 3, 1911.

RINEHART & SON,

Smith Center, Kansas.

WOODLAWN DUROC JERSEYS.

Headed by Woodlawn Prince 53843. Sows of Ohio Chief, Orion, Topnotcher and other good families. Choice yearling gilts for sale, bred for March and April farrow. Also a few open gilts.

ROY H. OTT & BRO., Concordia, Kan.

DUROC FALL PIGS, EITHER SEX. Fairs, not related, for sale reasonable. Bred sow sale January 24. Write at once for catalog.

FRANK VRTISKE, Pawnee City, Neb.

HOTEL GREENWOOD HERD.

Headed by Stith's Commodore by Top Commodors. Bred sows and gilts for sale; 200 head in herd. A choice lot of fall boars and gilts.

CHAS. STITH, Eureka, Kan.

CROW'S DUROC JERSEYS.

Herd headed by Climax Wonder, he by Missouri Wonder. 100 head to select from. Prices reasonable. The electric car runs within three blocks of my farm. Come and see my herd at any time.

W. R. CROW, Hutchinson, Kansas.

CEDAR LAWN HERD.

Twenty boars for sale by Long Wonder 21867 and Lincoln Chief 91913, a son of Chief Tattarax. Will also offer some spring gilts at reasonable prices by such dams as Josie Surprise, Bessie Advance, Proud Queen by Ohio Chief.

F. M. BUCHHEIM, Leocompton, Kansas.

CHOICE DUROC BOARS FOR SALE.

Good individual descendants of Orion, Valley Chief, Farmer Burns, etc. Reasonable prices.

O. A. TILLER, Pawnee City, Nebraska.

ANDERSON HIGH CLASS DUROCS.

Choice lot of fall pigs of the best of breeding for sale at very reasonable prices. For low prices on good stock, address

C. O. ANDERSON, Manhattan, Kansas.

JEWELL COUNTY HERD.

Headed by Bonney K. 74075, all prominent blood lines represented. Sow sale Feb. 1, 1911.

W. E. MONASMITT, Formosa, Kansas.

SAMUELSON BROS.' DUROCS.

Fifty spring boars for sale, the pick of 300 head of spring pigs, sired by 10 different sires; good, growthy fellows; heavy bone; the best of color; good quality. We can suit you in blood lines and quality. Our price right. Come and see or write us. Samuelson Bros., Cleburne, Kan.

POLAND CHINAS WITH SIZE.

Some very choice fall pigs weighing from 100 to 125 pounds, sired by Pawnee Look, the best boar looks Grand ever sired. The hog that suits the big type breeder and farmer. My motto: "More hog and less hot air." F. F. Oerly, Oregon, Mo.

PRAIRIE VIEW HERD.

Hamilton, Missouri. Breeder of Big Type Poland China Hogs and Buff Orpington chickens. Address

F. E. MULLER, R. 4, Hamilton, Missouri.

BIG POLAND CHINA HOGS.

Limestone Farm Herd, Clarksville, Mo., M. Gottswiller, Prop., breeder of big Poland Hogs, Shropshire sheep, Buff Orpingtons and Single Comb Brown Leghorn chickens, Pekin and Indian Runner ducks and Chinese geese. Breeding stock for sale.

STRYKER BROS.' HERD POLAND CHINAS.

The greatest show and breeding herd in the West. Write your wants and they will please you. Buy the best and make the most. They breed the kind that win; the kind that you want. Address

STRYKER BROS., Fredonia, Kan.

40—DUROC GILTS—40

All sired by Helen's Wonder (a son of Red Wonder and Helen Blazes 21st) and S. D.'s Inventor (a son of Inventor). Many of these gilts are out of May Boy sows. They are bred for early March and April farrow to one of the above mentioned boars or Crimson Model, a fancy son of Nebraska Wonder. They combine quality and scale and will please.

J. F. STODDER,

Burden, Cowley County, Kansas.

Greenwood Herd Durocs

FOR SALE—Choice lot tried sows and gilts, sired by Dandy Duke and Tattarax Model, bred to Model Duroc, Greenwood Chief and Chief Orion. All guaranteed; priced \$30 to \$50. If you want good hogs write me.

R. D. MARTIN & SONS, Eureka, Kansas.

HAMPSHIRE HOGS.**HILLWOOD STOCK FARM.**

Breeders of Hampshire hogs. Twenty bred gilts for sale. Service boars, pairs and trios, no kin. The celebrated boar Brianger No. 1039 heads this herd. Address

J. Q. EDWARDS,

Platte City, Mo., Route 2.

OHIO HERD OF MULE-FOOTED HOGS.

Stock of all ages for sale, sired by five big prize-winning boars and out of big matured and prolific sows, the equal of any breed. I have the largest herd in the land of this variety and healthy breed. JOHN H. DUNLAP, Box P, Williamsport, Ohio.

OHIO IMPROVED CHESTERS**MOSSE OF KANSAS**

Kansas Herd of Improved Chester Whites. Grand Champion Sow Kansas State Fair.

ARTHUR MOSSE,

R. D. 5, Leavenworth, Kansas.

MAPLE LEAF O. I. C's.

The best blood lines represented in this herd. When in need of quality write.

R. W. GAGE,

R. D. 5, Garnett, Kansas.

BERKSHIRES**LARGE ENGLISH BERKSHIRES**

Breeding Stock for Sale.

H. U. McCRDY & CO.,

Hutchinson, Kansas.

40—BOARS AND GILTS—40

Herd boar, Forest Supreme by King Forest, dam by Lord Lee. For sale, 20 spring boars and 20 spring gilts, good ones. Price \$20 for choice. Write at once.

MANWARING BROS.,

Lawrence, Kansas.

FIELD NOTES.**It Is Tomson Bros.**

The old firm of T. K. Tomson & Sons, Dover, Kan., famous for many years as breeders of the highest class of Shorthorn, has been changed to Tomson Bros. This new-old firm writes that: "Among the most important sales we have made lately are two good bulls that go to head the herd of Albrecht & Son, Smith Center, Kan., and J. C. Stephenson, Clements, Kan. The first of these was a Scotch Nonpareil by Count Abbott and the second, a Cherry Bud out of the dam of Cherry Lass, a noted show cow by Hampton. Both gentlemen are highly pleased. Our herd has been greatly strengthened lately by the purchase of 15 Scotch cows and sitters, mostly of the Bruce, Augusta, Moss Marigold and Cruickshank fancy families and direct from imported cows. This gives us a great lot of Scotch cattle, both in breeding and individuality. We have 10 head of extra good bulls that will please those who want good cattle. The best is none too good. Write Tomson Bros."

WALLACE'S MAMMOTH BRED SOW SALE

AT BUNCETON, MO., FEB. 8, 1911

More Size, More Quality, More Rich Breeding

In this sale, I will offer to the public 50 HEAD of Large-Type Poland China Sows that are considered by breeders and fieldmen who are familiar with them as probably the strongest collection of strictly fancy bred sows ever put through a sale ring in the corn-belt territory. Besides top selections from my own herd, I am selling tops from half a dozen of the best herds in Missouri, Kansas and Nebraska. Two-thirds of the offering will be bred to the Missouri grand champion. All were bred early and are safe. There will be 10 Grand, Big, Tried Sows from two to four years old, sired by What's Ex, Colossus, Designer, Major Look, Proud Allerton, Orphan Chief, Taxpayer, and other good herd boars. 20 Big, Handsome yearling sows that have raised litters and 20 Large, Fancy Gilt. All are bred to the Great Herd Boars, Expansion Wonder (the champion of Missouri State Fair, 1910) and Grand Leader, two of the best boars living.

My fine illustrated catalogues will be ready to send out January 15. Get your name on my mailing list now. Don't wait to receive it but write to-day for it, kindly mentioning Kansas Farmer when you write.

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

W. B. WALLACE, Bunceton, Cooper County, Mo.

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

FRANK IAMS'

new importation of draft stallions and mares arrived October 23, 1910, by "Iams' own special train" of "3 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

ROYAL SCION DUROGS Colonel Ohio Chief Crimson Wonder Sale

at Winfield, Kas., Feb 1 1911

I will sell 30 head of choice Duroc sows and gilts, two tried sows, litter mates to Colonel Scion, two Bel's Chief sows, four by Bent Me If You Can, one by Imp's Lad, two gilts by Red Advance, three by Alfred's Col., all bred and safe to Col. Scion. 12 fine gilts by Col. Scion—all bred to Crimson Scion. This will be a Colonel Ohio Chief-Crimson Wonder sale, and these three families have won more first and champion prizes than all other Durocs combined at the leading state fairs in the corn belt in the last three years. Now I ask the breeders to come to my sale. I have the breeding that is very popular and the fieldmen tell me I have extra good hogs. Come and see for yourself.

My catalogs are ready. Send for one, read it, then come or send a bid. I guarantee a good offering. O. W. Devine will represent Kansas Farmer. Bids sent to him will be handled with care.

G. C. NORRIS WINFIELD KANSAS

AUCTIONEER—COL. JOHN D. SNYDER, WINFIELD, KAN.

COTTINGHAM & SONS'

Percheron Sale

At McPherson, Kansas,
Thursday, February 2 1911

25 HEAD of Percheron mares and stallions, including 20 head of imported and American mares, registered stallions. A number of matched teams, blacks and grays. All bred to a ton stallion and all registered in the Percheron Society of America. Some of them first prize winners. We will also sell 40 head of grade mares, geldings and mules. Send for a catalog and arrange to attend our sale. Catalogs are ready to mail out. Remember our date and come to our fifteenth annual sale. TUESDAY, FEBRUARY 2, 1911.

COTTINGHAM & SONS
McPherson, Kansas.

PERCHERONS, BELGIANS AND GERMAN COACHERS

First importation arrived October 22. The best we could buy in the old country. Our barns are full of Stallions and Mares from 1 to 6 years old with plenty of size and quality. We have 2-year-old stallions weighing a ton or better, and are pricing them at figures that will interest every one contemplating the purchase of stallions or mares. YOU PAY NO AUCTIONEERS OR HORSE COMMISSIONER when you buy from us. Barns located so we can show horses any time between trains. A 60 PER CENT GUARANTEE GIVEN WITH EVERY HORSE.

SKOOG, REED & DE COW,
Holdredge, Nebraska.



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.

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.

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

Limestone Valley Farm

—Headquarters for high class
jacks and jennets. No public
sale 1911, but have a barn full
of good jacks and a pasture
full of good jennets at private
sale. Every animal a good one,
fully guaranteed and well
worth the price.

COME AND SEE US.
L. M. MONSEES & SONS.
Smithton, Mo., Pettis Co.

PERCHERON MARES

Weanlings to 4 years old in matched teams, including the
Kansas State Fair and American Royal champions, all reg-
istered or can be registered in Percheron Society of Amer-
ica. 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 in-
dividuals. 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 sec-
onds. The fall gilts are daughters of
the 1,000 lb. Peter Mouw boar, Big
Chief. The spring gilts are practi-
cally 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 daugh-
ters of perhaps the largest living
Poland China boar, A. Wonder.

J. M. Ross is changing locations
which makes it necessary to dis-
perse 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, Bertie by Bell
Metal, etc. All excellent individ-
uals and bred for March and April
farrow to the boars, Ross's Hadley
by Big Hadley and Western Ex-
pansion by Expansion's Son. The
gilts are by the Hadley boar and
it is doubtful if there will be a bet-
ter 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 han-
dled 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.

VONDALE 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 In-
ternational, 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 30 days. We are 40 miles west of Peoria on
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 per-
manent 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 ac-
company you to the home barn at Homewood, Ill., where we can show you 100 head of
big, drafty Stallions and Mares with plenty of bone and quality. Every horse guaran-
teed sound and a satisfactory breeder. Prospective buyers should see this stock before
buying elsewhere. We have a car load shipped direct from the International. Write
us your wants, or better still, come and see us. Abilene is on the Rock Island, Santa
Fe and U. P. railroads.

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. 29 times first in stallion classes.
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 consid-
ered. Our guarantee and insurance are the best.

PERCHERON IMPORTING CO., South St. Joseph, Mo.

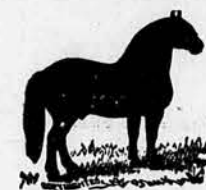


W. H. RICHARDS, Importer PERCHERON AND BELGIAN HORSES.

A car load of extra good 2-year-old and 3-year-old stal-
lions 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. F. depot.

EMPORIA, KAN.

EASY TO GET THERE.



Percherons Belgians and Shires

Also Shetland Ponies.
Will have a good
importation of stal-

lions 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.

Riverside Stock Farm

Importer and Breeder

FOR SALE—12 head of registered Perch-
eron 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.

REGISTERED HORSES

O. K. BARNES, SAVANNAH, MO.

W. E. Price, Proprietor.

Dealer in registered horses. Three very
fine stallions to SELL AT ONCE. Also
the best stud colt in the state. Write for
description of stock. I can suit you.

PERCHERON HORSES, HOLSTEIN-FRIE-
SIAN CATTLE.

Up-to-date Poland China hogs. Write your
wants. H. N. HOLDEMAN, Meade, Kansas.



PERCHERONS, SHIRES, BELGIANS THE LARGEST IMPORTING ESTAB- LISHMENT IN AMERICA.

We have been importing horses for
more than 30 years.
We import the largest and best bred
horses Europe can produce—horses with
blood lines tracing back for 20 genera-
tions.

Mr. Watson, who has twice judged the
horses at the Chicago International, per-
sonally selects every horse we buy from
the six oldest and largest breeding firms
in Europe.

We want you to come to Lincoln and
visit our big barns. We can save you
hundreds of dollars on any animal or
animals you may select.

Start in the morning. If you can't
come at once, send for our big illustra-
ted catalog. It will help you to decide.

WATSON, WOODS BROS. & KELLY
COMPANY

Dept. 1

Lincoln, Nebraska



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 individ-
ually selected for size, bone quality
and excellence. If you want choice
stallions or mares, write for cata-
logue, illustrated from life.

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

Mitchell County Breeder's Ass'n

On Thursday, January 26

This association will sell 41 head of pure bred cattle consisting of 27 Shorthorns, 3 Angus and 12 Herefords. The offering is a draft from a number of the best herds of this association and nothing is going in the sale that is not worthy a place in any herd.

Short Horns

The 27 Shorthorns consist of 12 bulls ranging in ages from eight months to three years. All are Scotch topped and two of these bulls are pure Scotch. The 15 females consist of cows and heifers and all are bred except two or three that are too young.

Angus

There will be three coming two year old bulls in this sale.

Herefords

There will be 12 Herefords in the sale consisting of seven cows and heifers and five young bulls, ranging in ages from eleven months to two years. Sale at the fair grounds, Beloit, Kan.

For a catalog, which is now ready, address

J. M. RODGERS, Sec'y
Beloit, Kansas

AUCTIONEERS—JOHN BRENNEN, H. H. VANAMBURG, F. L. SMITH, C. P. SMITH.
R. G. SOLLENBARGER, FIELDMAN.

JOHNSTON'S POLAND CHINA BRED SOW SALE

At Farm Near Southmound, Kansas

JAN. 20, 1911

44 head, consisting of the queens of the breed, such sows as Beauties Only by Hutch, dam Expansion Beauty bred to Blain's Wonder; Pansy Pan by Expansion, dam Orphan Girl—Orphan Girl sold for \$360 in the Dawson sale, going to Thompson Bros.' herd; Pansy Pan is safe to Blain's Wonder; Cosette by Blain's Wonder, bred to Orphan Chief; Bx by Mammoth Ex, dam Bonnie B. and the best Blain's Wonder sow on the farm, sold bred to Orphan Chief; Lady May by Chief Victor, dam Lady Clover, bred to Orphan Chief; May Lady by Blain's Wonder, dam Logan Beauty, the largest sow in Kansas, bred to Orphan Chief; Maud G. by Michael's Wonder, sold bred to Standard O. K.; Sterling Lady by Sterling Jumbo, dam M. B.'s Lady Mate 3d, bred to Erie's Prospect. Many other choice sows and gilts of the large, smooth type, the best lot I ever offered. Send for my catalog early and come to my sale and look at my entire herd and herd boars, then you will be the judge. If you cannot come bids sent to O. W. Devine, representing Kansas Farmer will be honestly handled.

AUCTIONEERS—COL. FRANK J. ZAUN, COL. H. HOHENSTEIN.
Roy Johnston, Southmound, 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.



LOBAUGH'S

**Big Type Poland China
Bred Sow Sale**

FRIDAY, JAN. 27

Washington, Kans.

40 head in all, 10 tried sows and 30 selected gilts of early spring farrow, all bred for first of February, March and April farrow. The tried sows to Kansas Ex., the greatest breeding son of the great Expansive. The gilts to L's Mastiff by King Mastiff, first prize senior yearling at Nebraska State Fair 1909. The tried sows are daughters of the 1000 lb. boar, Chief, a Peter Mouw bred boar. More than two-thirds of the gilts were sired by Kansas Ex. They are very large, smooth, good, wide heads and every one of them sure to make a first class brood sow. A few are by L's Hadley by King's Hadley, sweepstake boar at Nebraska State Fair last year. Write for catalogue.

Sale will be held in heated pavilion and every one made comfortable.
AUCTIONEER—JAS. T. McCULLOCH.

A. C. Lobaugh,
Washington, Kans.

JESSE JOHNSON, FIELDMAN FOR KANSAS FARMER. SEND HIM BIDS.

ROL. STUMP'S BIG TYPE POLAND CHINA BRED SOW SALE

Thurs., Jan. 26

At farm near Blue Rapids, Kansas

50 HEAD 50 HEAD

15 Tried Sows 23 Fall Yearlings 12 Spring Gilts

All bred for last of February, March and April farrow to the big boars, Kansas King by Granite by Expansion, Capt. Hutch by Captain Hutch, Faultless Chief by Fulton's Chief, and Colossus Boy by Colossus.

TRIED SOWS are daughters of Big Hutch, Capt. Hutch, Kansas King, U. S. Jones and other big hogs.

FALL GILTS are strictly tops and sired by Kansas King and Capt. Hutch.

SPRING GILTS—growthy daughters of Kansas King, Capt. Hutch and Colossus.

ATTRACTIVE—Beatrice 6th by Big Hutch and out of Beatrice by Expansion See, Betty by Kansas King, dam by Old Faultless Overchief.

One of the best offerings of the season; must be seen to be appreciated. Write for catalog and if unable to be present send sealed bids to Jesse Johnson of this paper in my care.

AUCTIONEER—COL. JAS. T. McCULLOCH.

W. R. STUMP,
Blue Rapids, Kansas

The 25 head of sows and gilts and the part of February 7 sale include the entire reserve breeding herd, all the great sows that he has been keeping and many that would not be for sale at any figure but for the fact that he is changing locations and must disperse the herd at this time. The 16 tried sows include the great sow, Minnie Prince, one of the few living daughters of Prince We Know. Four of her daughters and five of her granddaughters are also in the sale, Molly Look and Ida Look, daughters of Look Grand Handsome, useful and motherly, Beauty Bell by Bell Metal, Gold Dust by Big Price and others of such noted breeding. There will be eight fall gilts and five spring gilts, every one of the best sons of old Big Hadley. These gilts are of one type and nearly all marked alike, brood sow prospects. They are all bred for March farrow to Mr. Ross's outstanding young Expansion boar, Western Expansion by Expansion's Son, and out of Fancy Lady by Western Chief, he by Chief Tecumseh 2d. Western Expansion is a splendid individual, large, smooth and standing upon one of the best sets of feet and legs the writer ever saw under a pig. This boar, also Ross's Hadley, go into the sale and both should go into good herds. Although it is hardly the season for buying boars no breeder that needs a good boar can afford to let this kind sell below their value. Lack of space makes it impossible for us to mention in detail but a few of the good things in this offering. But a catalog has been issued giving complete foot notes and full other information. This catalog is free for the asking and it will interest you even should you not want to buy at present. Please mention Kansas Farmer when writing.

When writing advertisers please mention Kansas Farmer.

Ikey Stallion Buyers—Stay and learn
Frank Iams' horse song, it's a hummer. "It's the man behind the dough" that sells more and better imported stallions and mares for less money. He has "competitors up in the air" over his big horses and low prices. He is saving thousands of dollars to "stallion buyers." That's Frank Iams, of St. Paul, Neb., the "square deal" horseman. He is the largest individual importer and breeder of Percherons and Belgians in America. He sold 200 horses in 1910 and saved \$1,000 each to his customers and sold a better horse. He will save stallion buyers a "quarter million dollars" in 1911 and sell them a "peaches and cream" stallion or mare that will make them \$1,000 in service fees in 1911. Ikey Boys—This is the "gold mine" year for you to buy and breed horses. First class horses are high and scarce and will be high for ten years yet. Take that money out of your old "tobacco box" time certificates of deposit, drafts and buy a stallion and four mares of "Iams, the kind horseman." Then your money will be safe and making money daily. Buzz around Iams' town of barns. They are filled to the roof with new, fresh importations of 160 stallions and mares 2 to 6 years old, weight 1,700 to 2,500 pounds, 90 per cent blacks. Eighty French and Belgian prize winners at Paris, Brussels and noted shows. Iams sells his show horses annually. He buys new and better ones each year. For 28 years Iams has been "bumping the heads" of the "gold brick stallion salesmen" with better and larger stallions, forcing the importer and breeder with inferior stallions and mares to sell them on the "auction block." Iams guarantees to sell you a better stallion at \$1,000 and \$1,500 (some higher) than are sold to "farmers' stock companies" at \$2,500 to \$3,000. If you don't find this so, you can have the \$500 Iams hangs up. "It's not because his eyes are blue" that Iams tells you in his "ads" of money he will save you. He wants you to smile on him with a visit. He will make the "wheels of business" go round. Iams can place \$1,500 insurance. He is an "easy man" to do business with, and his horses are so good they sell themselves. You say: "Why can Iams sell better stallions at half the price of others?" Iams buys and sells every stallion himself at his home barns. He buys stallions by "special train load," 100 at a time. He speaks the language, saving 20 per cent. He is not in the "stallion trust," saving you \$300. He pays no "slick salesmen" \$1,000 to sell you a fourth-rate stallion. He has no two to ten partners to share profits with. He pays spot cash for

WE ARE (ONLY SIX) OF A 160 REAL "LIVE WIRE MODELS" OF THE REAL "PEACHES AND CREAM" PERCHERON AND BELGIAN STALLIONS AND MARES OWNED BY FRANK IAMS, ST. PAUL, NEB., THAT POSITIVELY MUST BE SOLD. SEE IAMS AND YOU WILL SING HIS HORSE SONG. BUY "TOPNOTCHERS OF IAMS."

his stallions, owns his farms, houses, barns, stock and stallions. He sells stallions by "hot advertising," and having the "goods" to make every statement good. Iams will save you \$1,000 or more in commissions and middlemen's profits. All of Iams' "show horses" are for sale, none reserved. You don't get away from Iams with money or bankable notes. He has his "selling clothes"

porting and selling stallions, make him a safe man to do business with. He sells stallions on honor. A boy or a lady can buy as cheap as a man, and get a better horse of Iams, the "square deal" horseman. If you visit him and don't find every statement in his advertisement or catalog as repeated, you can get the \$500 that he hangs up. Read Iams money-making song.

lics and mares in the United States "true to life" in "every pose." This "warm book" is full of "Iams' kind"—the "wide as a wagon drafters"—the real "peaches and cream" stallions. It shows the "tricks" of "stallion peddlers" and "auction block" salesmen. It is the finest, most elaborate and "original" up-to-date book in the world. Iams' 28 years of successful business, im-

"Key Boys." Then, when you wish to buy the "largest boned," real "Simsen" "drafters" and save \$1,000 or more, get "square treatment" by a "horseman" that all the world knows—and the "tricks" of all horsemen—and the "peaches and cream" of their own and a few more for 28 years. "Just smokes" smoke and buy a ticket for "Iams' horse emporium."

IAMS HAS 160 "PEACHES AND CREAM" PERCHERON AND BELGIAN STALLIONS AND MARES OWNED BY FRANK IAMS, ST. PAUL, NEB.

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. LAKE BURGER.
O. W. Devine represents this paper. Bids sent to him will be handled with care.

Hamilton & Son's Annual Bred Sow Sale of Great Poland China Sows and Gilts

AT

GUIDE ROCK, NEB.,

Saturday, January 28, 1911

Consisting of 35 head, 12 tried sows, 5 fall yearlings, 18 spring gilts. Sired by Big Medium, Choice Goods, Belleville Chief and other noted boars. Among the tried sows are Jewell's Beauty, a half sister to Choice Goods, Jr. Queen by Mogul Jr., 3 granddaughters of Big Hadley, and 3 granddaughters of Mogul. The offering will be bred to Choice Goods 54118, who won 2d in class at Nebraska State Fair this year and who every one declares is the outstanding yearling in Nebraska. A litter by him will be one of the hits for next year. Choice Goods is ably assisted by Blue Valley Prince 57908 by Blue Valley Blue. This is the making of a great boar and will make a good nick with Choice Goods gilts. Remember the place and date. Send for catalog and if unable to attend any bids sent will be honorably handled by the field men.

J. H. HAMILTON & SON

Guide Rock, Nebraska

AUCTIONEER—JOHN BRENNEN.

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.

E. W. DAVIS & CO.

Big Bred Sow Sale Glenwood, Mo., January 23, 1911

FIFTY-FOUR HEAD OF HIGHLY BRED DUROC SOWS, REPRESENTATIVES OF THE BEST DUROC BLOOD IN THE COUNTRY, WILL SELL AT THIS SALE. SEND FOR CATALOGUE.

E. W. DAVIS & CO.,
Glenwood, Mo.

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,

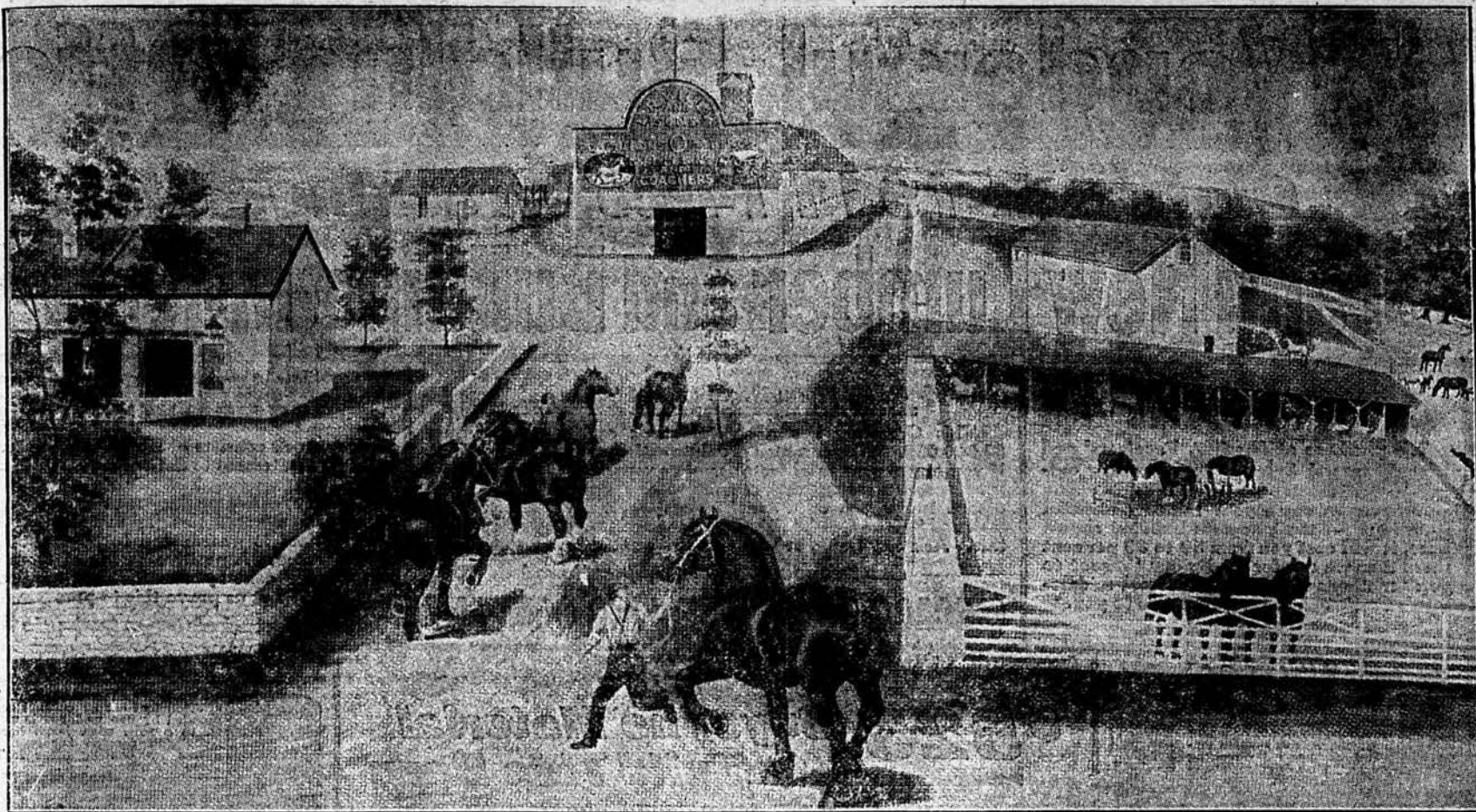
Topeka, Kansas

O. P. UPDEGRAFF, Manager

Graner's February 9 Sale.

H. C. Graner, big type Poland China breeder of Lancaster, Kan., is cataloging for his February 9 sale 50 head of tried sows, 1 yearlings and spring gilts that represent a great variety of the very best of all big type breeding. Mr. Graner was a good buyer at about all of the best fall sales and in many instances buying around the top. In this sale he is selling some of this stuff, but to make the boys sit up and take proper notice, he is including the great sow, Prima Bell by Bell Metal and out of a dam by Prince Wonder. It is extremely doubtful if there will be another sow the equal of Prima Bell sold at auction this year. In order to show that she is just as good as a breeder as she is an individual, Mr. Graner puts in a pair of her spring gilts by Colossus. The are dandies, long, smooth, elegant sow prospects that will weigh 350 each on sale day. And then lest someone might think this great sow was a greater gilt producer than a boar producer, Mr. Graner is putting in five of her August boars sired by Guy's Monarch. When you

have seen these gilts, the boars and the sow you will realize more than ever the "blood tells." There will be nine tried sows in all, including daughters of Nebraska Chief, Kansas Chief, Hadley 52949, Expansion, Longfellow 3d, etc. The gilts include one of the best gilts that a writer has seen. She will be No. 7 in catalog, sired by the \$1,000 Guy's Monarch and out of a sow by old First Quality. Nos. 8 and 14 are good ones by Guy's Monarch and out of Expansion dams. Several are by Wilkes Again and out of dams traced to First Quality; one by Major Hadley and a dam by Nebraska Jumbo. This offering will be bred to Mr. Graner's great brace boars, Guy's Monarch by Guy's Price 2d and out of an L's Tecumseh dam; Col. Thomas, bred by Thomas Shattuck, Ing. Neb., sired by Simpson 53261, a boar of great size; Colossus Boy by Colossus and out of Prima Donna, and Kansas Victor, promising young boar sired by Lonerger noted boar, Big Victor, and out of a Price 2d dam. This is one of the good offerings of the winter. Write for catalog giving all information.



FARM SCENE AND BARN ON THE FARM OF L. R. WILEY & SON, ELMDALE, KAN., AND A BUNCH OF THEIR PERCHERONS WHICH WILL BE SOLD IN THEIR SALE JANUARY 24 AND 25, AT STRONG, CITY, KAN.

Don't forget that W. B. Wallace at Eunceton, Mo., will sell a choice lot of Poland China sows bred to the great Expansion Wonder, the Missouri champion. Send for nicely illustrated catalog and arrange to attend the sale.

The Designer Kind.

On February 11, C. S. Nevius of Chiles, Kan., will sell 50 head of as good brood sows and gilts as he has ever offered in a public sale. They are the Designer and Major Lock kind. They are bred to Good Metal, Big Hadley's Model and Orphan D, for early litters. Don't fail to send for a catalog and arrange to attend this sale or send a bid on some of these good sows. Kindly mention the Kansas Farmer when you write for catalog.

One Hundred and Sixty Head Poland Chinas

On February 7, H. B. Vanhooser at Eldon, Mo., will close out his entire herd of high class Poland Chinas. This is as well bred a lot of brood sows and gilts as will be sold this winter and, owing to the large number to be sold, there will be many valuable bargains pass through the auction ring at a very low price. This will be a grand place to buy some new blood that would be a valuable improvement to many herds. Mr. Vanhooser not only has good breeding, but he has the individuals to show. He has the large, smooth western type of Poland Chinas. There are many sows in this herd that would add grace and dignity to any herd and would be a valuable purchase at any reasonable price. Don't fail to send for the catalog of 160 head. There will be bargains for all. Please mention the Kansas Farmer when you write.

Ross and Long Sale—W. E. Long Consignment.

In order to put up a bunch of bred sows that are outstanding, Messrs. Ross and Long of Valley Falls and Ozark, Kan., have joined forces. Mr. Long contributes to this sale, which is to be held at Valley Falls Tuesday, February 7, 25 head of bred sows and gilts that are without doubt the best he has included in any sale for some time. They are bred for March and April farrow to the big mellow boar, Long's Mogul, grandson of Jensen's Mogul, and the young boar, King Mastodon 2d, the boar that topped Lee Gross's fall sale at \$108. He is a pig with a great future and the sows bred to him in this sale will prove good investments. He was sired by the great boar, King Mastodon, he by Demonstrator. King Mastodon is a grandson on his dam's side of old Chief Price, the boar that made the Peter Mow breeding famous. The dam of King Mastodon 2d is considered by breeders that have seen her to be one of the really great sows of the breed. She is a daughter of the great boar, A. Wonder. Her name is Lady Mastodon 95th and she sold at the W. W. Wheeler dispersion sale for \$195. Included in Mr. Long's division are nine fall farrowings all sired by Mr. Long's previous herd boar, Big Chief, another Mow boar in the 1,000 pound class. If you want to breed them big, buy them with that kind of blood. Mr. Long reluctantly includes in this sale three of as good sows as will be sold in any sale this winter, Minnie K., one of the greatest producing sows in the herd and just in her prime. The six daughters that go in the sale will be her best recommendation. The other two are Blue Valley Girl and Maud Hadley. Blue Valley Girl is an Expansion bred sow on sire's side, an excellent producing sow and is only being sold to make an attraction. Maud Hadley is by Duke's Hadley, he by Allerton Tecumseh, the sire of Blain's Tecumseh. The spring gilts are practically all by Long's Mogul and out of the kind of sows we have mentioned, including one by John's Boy, Harshaw's noted boar. Her dam is a great sow sired by Blain's Wonder. Those of our readers who have been keeping in touch with what the really big type breeders have been doing, will know that the blood in Mr. Long's consignment is close up to the biggest of the big. Write him for catalog giving all information.

A New Sale Company.

The Kansas Public Sale Company has just been organized at Topeka for the purpose of giving farmers and breeders of eastern Kansas an opportunity to dispose of surplus stock at regular intervals. The new company is under the management of Col. O. P. Updegraff, who has for the past five years

been conducting just such sales most successfully at Mexico, Mo. These sales were regarded as public events and the citizens lent their aid to the extent of defraying all expenses. There is no reason why such a series of sales should not be successfully held at Topeka. Other towns have them and they pay. Bloomington, Ill., is now holding a great draft horse sale in which 500 head will be disposed of. The first sale to be held by the Kansas Public Sale Company will be one of draft horses, which will take place on February 23 and 24, but those who wish to dispose of their horses must get their entries in at once as the date for closing the entry books is fixed for February 7. The sale will be held in the splendid new live stock pavilion on the state fair grounds, which will accommodate 536 head. The railroad runs into the grounds and horses can be unloaded within a few feet of their stables. If you have any draft or farm horses or good, heavy mules for sale, write Colonel Updegraff at once. The charges are very reasonable.

Northern Kansas Duroc Sale Circuit.

Ward Bros.—Beginning with Ward Bros. on the last day of January will start one of the best sales circuits of Duroc Jersey bred sows that will be held anywhere this winter. This firm will sell 10 tried sows, among them the great sow, Cherry Girl, bred to Model H, for early spring litters. Put a mark down here. Another of the attractions is Rose Banker, who has been their best producer the past season, they having sold \$375 from her 1910 litter and \$125 worth of boars from her 1910 litter and six gilts go in this sale. The entire offering is sired by well bred boars of proven worth and the boars to which the offering is bred are at the top. Model H is now in his sixth year and as spry as a pig. This hog has sired some of the best stuff ever in Kansas or Nebraska. Ward Bros' hogs have been the only Kansas Durocs to go to Nebraska State Fair and this offering is as good as any if not the best they ever put up at public sale. It almost looks like taking too many chances to put up some of these good sows, at public sale, but Ward Bros. have full confidence in their patrons and are not afraid to offer them the best they have. Attend this sale and you will be delighted with the offering, and while you are planning to attend this sale, plan to attend the entire circuit.

W. E. Monasmith will sell at his farm two miles north of Formosa the first day of February in his own heated sale pavilion, at which time he will offer 10 tried sows by such sires as Golden Ruler, Chief Improver, Nebraska Wonder, Model Chief Again, Belle's Chief and Big Chief, and all bred to his great breeding boar, Bonny K. 47075. You should keep your eye on these. Also 30 spring gilts will be offered sired by Prince Wonder 2d, Lincoln Top, Top Notcher's Top and King of Kant Be Beat. Of these, 10 are bred to Bonney K. and 16 to Kansas Special, he by Valley Chief, one of the best if not the best son of Ohio Chief. This young hog is showing up fine and will show up some mighty good pigs next spring. Four gilts are bred to Nebraska Boy, a son of Bonney K., and out of a sow by Nebraska Wonder. You will find this offering one of the good ones both in quality and breeding, as Mr. Monasmith has made it a point to buy nothing but the best sows and them bred to the very best boars. As to his herd boars, Bonney K. is one of the strong sires of the breed. Over a dozen good breeders are using his sons as herd headers and are well pleased with them. Get the catalog, it tells the story, and don't fail to be at the sale or be represented by bid.

George Phillippl will sell at Esbon the next day 35 head of tried sows and gilts.

Rinehart & Son—On February 3, a draft of 50 head of tried sows and spring gilts will be sold from the R. & S. Farm herd at Smith Center, Kan. Messrs. Rinehart have been in the hog business for a few years, but have been very particular in their purchases, only buying the very best sows and then using only the very best herd boars. As a result of this they have today one of the good herds of the country and this headed with the boar, King Kant Be Beat, who, in good condition, would easily weigh 1,000 pounds, and as a sire is a producer of these big, long, smooth gilts so much desired as brood sows. In this offering will be 10 tried sows by Golden Ruler, Ripley Top Notcher and King of Kant Be Beat, and some of them bred to the last named

sire. The gilts, of which there are 43, are by Golden Ruler, King of Kant Be Beat, Jewell's Col., Bonney K. and other good sires and bred to King of Kant Be Beat, R. & S. Duroc Wonder, Golden Bonney and Crinson Wonder V., a new herd boar of very rich breeding, being sired by Crinson Wonder Again and out of Missouri Girl, the dam of H. A.'s Queen, who produced the great litters in 1908 and 1909 for H. S. Allen. He is also a half brother to Crinson Wonder 2d. Sale will be held at fair grounds joining Smith Center and everything will be arranged to make you comfortable and your presence will be appreciated. The offering will please you if you will only come and see it.

W. C. Whitney—At Agra, Kan., on Saturday, February 4, W. C. Whitney will finish this circuit by selling 35 spring gilts of early farrow, well grown out and bred to extra good boars. They were sired by Agra Top Notcher, who was by Tip Top Notcher and out of a dam by Major, Jr. Agra Top Notcher is one of the really great boars. We never thought he was so good a hog until Mr. Whitney's fall sale, when he was driven in the ring carrying nearly 900 pounds and carrying it in upon his toes like a pig. You will miss it if you do not get a sow in this sale sired by him or bred to him. He sires those smooth, growthy, rich colored fellows that are picked by the first buyers. He is assisted by two Bonney K. boars, one of which is the outstanding pig we have seen this year and he should have been at some of the big shows. He was sired by Bonney K. and out of a sow by Belle's Chief; her dam being by Crinson Wonder and out of Nancy D. This fellow is called Bonney K. 2d. You will not be disappointed in a litter by him and out of a sow by Agra Top Notcher. Also some of the gilts are by I Am a Bonney K. and Bonney K. and others and the dams of the offering are by such sires as Agra Top Notcher, G. C.'s Col., Rosebud Chief, McC Parker & Paul Jumbo. You will be cared for in up-to-date style on this whole circuit and you will see four better offerings than you expect and if you are in the market for bred sows you can get them here that will be money makers for you and from men that are in the business to stay for the betterment of the breed. If unable to attend, get a catalog from each and send your bids with your instructions to R. G. Sollenbarger of this paper, who will attend all of the sales.

H. C. Glissman's Holstein Sale.

In the great two days' sale of Holstein-Friesian cattle which will be held by H. C. Glissman at South Omaha, Neb., on Feb. 7 and 8, there will be offered 125 head of registered animals. Among them will be found several daughters of Pontiac Hengerveld Parthena, who is the most distinguished sire among the sons of Hengerveld De Kol. In his list of A. R. O. daughters are 30 cows, including 20 pound junior 2-year-olds. In the sale will be included a dozen or more sons and daughters of King Hengerveld, whose dam was a 31-pound cow, and some granddaughters of Hengerveld De Kol will also be included. The ancestors of these animals were prize winners and A. R. O. cows, some of whom won in the keenest competition in the New York State Fair. There will also be about a half dozen daughters of Inka Burke De Kol who are sisters of a number of 31-pound cows. There will be a pair of helpers and a half dozen bulls by Milk and Butter King 2d, whose three nearest dams averaged 29.76 pounds. One of the most important offerings will be a three-fourths sister of Missouri Chief Josephine, the wonderful cow that is now surpassing the surprising record of Colantha 4th Johanna. Mr. Glissman's sale can not fail to be one of great interest, as it will easily eclipse any of the earlier Omaha sales and its quality will probably attract the largest crowd of representative western breeders that have ever attended a Holstein auction in the corn belt states. Mr. Glissman's reputation is well established, and buyers depend on his cattle.

Davis & Co.'s Duroc Sale.

On Monday, January 23, E. W. Davis & Co., of Glenwood, Mo., will sell 54 head of highly bred Duroc sows. Eight are bred to McNeill's Model, champion under boar at Ohio, Illinois and Indiana. Fifteen are bred to Blue Ribbon Chief; 10 to King of Cols, 2d; 10 bred to Crinson Wonder 5th, and one to Buddy K. 4th. The sows to be sold at this sale represent the most popular Duroc

blood lines and will be an unusual offering, both in quality and breeding. The sows are in excellent breeding condition and have been fed to give the purchaser the best results. Glenwood Junction is on the main line of the Wabash railway, between Des Moines and Moberly, is 100 miles south of Des Moines and 40 miles south of Albia, Ia. Train service is of the best, as it is also located on the Red Oak branch of the C., E. & Q. and it is easily reached from all directions. You can reach Glenwood in the morning, attend the sale and can leave for home on an evening train. Free entertainment to breeders from a distance. This will be one of the best offerings of the season and should interest all progressive Duroc breeders.

Watson, Woods Bros. & Kelly's Horses.

If you are in the market for a big, strong, massive Percheron, Shire or Belgian stallion, we take pleasure in recommending to you the Watson, Woods Bros. & Kelly Co. of Lincoln, Neb. We have known these men for many years. We know that they are importing the very best bred horses Europe can produce. We know that they guarantee every horse they sell and that they make good their guarantee. They have one of the largest and best equipped importing establishments in America. It is electric lighted throughout, so they can show horses day or night. Each horse has an individual box stall and a great abundance of sunlight. Their big barns are very near the State Experiment Farm and Agricultural College and are visited by thousands of people each year. It is really like visiting a big horse fair to see their barns. Mr. Watson makes four trips each year to Europe and personally selects every horse they ship across the water. Mr. Watson has purchased horses from these six firms for more than thirty years. Watson, Woods Bros. & Kelly Co. import horses from Europe in such large numbers that they can and do afford to sell them at small profits. Dealers who handle only a few stallions and mares can buy them as cheap from this firm as they can import them.

Big Nebraska Percherons.

Skoog, Reed & DeCow of Holdrege, Neb., who are very heavy importers and breeders of Percheron and Belgian horses, announce that their business is fine and that they have just sold a team of 2-year-old Belgian mares for \$1,600. They have also sold a



3-year-old Percheron stallion and a 2-year-old Belgian stallion. Pretty good business, isn't it? They write that the prospects are excellent and they think business will be first class this spring. Their imported stallions are now thoroughly at home and in fine condition. This is the age of the big drafter and those importers and breeders who have good stock find a ready sale for their horses. Skoog, Reed & DeCow have good stock and their prices are right. Write them.

On February 23, the well known breeder of Shorthorn cattle and Poland China hogs, W. R. Coleman, will sell at his farm near Kingman, Kan. The catalog will be ready February 1. Send for ore and arrange to attend this sale. Watch for sale ad in next week's issue of Kansas Farmer.

A Wonderful Building Offer

Our Great 1911 Price Wrecking Sale

Brand New Lumber and Building Material

HOW WE OBTAIN OUR SUPPLIES

We purchase at Sheriffs', Receivers' and Manufacturers' Sales, besides owning outright sawmills and lumber yards. Usually when you purchase your building material elsewhere for the complete building shown here, it will cost you from 50 to 60 per cent more than we ask for it. By our "direct to you" methods we eliminate several middlemen's profits. We can prove this to you.

Write Us For Facts

OUR BINDING GUARANTEE

This Company has a capital stock and surplus of over \$1,000,000. We guarantee absolute satisfaction in every detail. If you buy any material from us not as represented, we will take it back at our freight expense and return your money. We recognize the virtue of a satisfied customer. We will in every instance "Make Good." Thousands of satisfied customers prove this. Ask any Bank, or write to the publishers of this paper.

Our Responsibility is Unquestioned

CHICAGO HOUSE WRECKING COMPANY

EVERY STICK OF LUMBER IS BRAND NEW

Our stock consists of Brand New Material and any statement to the contrary is false and purposely misleading. Get our Guaranteed Quotation, delivered Free of Freight Charges at your home station. You run no risk, as every item is guaranteed to be exactly as represented. A positive saving of from 30 to 50 per cent by our "direct to you" methods. Let us prove this to you.

Let Us Make You an Estimate

Steam and Hot Water Heating

We furnish complete Hot Air, Hot Water and Steam Heating Plants of every kind. It makes no difference whether it is an old or a new building, we can furnish material at real "Wrecking Prices." Our Special Heating Booklet, which we send free to those interested, tells all the facts and gives much valuable information. Send us sketch or diagram of your building or home and we will make you an estimate.



Steel Roofing, Siding, Ceiling

Economical and easy to put on, no previous experience necessary; absolutely guaranteed, brand new, clean stock—bright as a dollar. 1 1/2 inch corrugated, unpainted steel sheets, light weight, 22 in. wide, 48 ft. long, 100 sq. ft. \$1.85
Painted, same as above \$1.95
1 1/2 inch corrugated, galvanized, rust-proof steel sheets, light weight 22 in. wide, 48 ft. long, 100 sq. ft. \$3.25
2 to 7 ft. long, 100 sq. ft.

We pay the freight at these prices to all points east of Colorado in the U. S. Samples mailed free. Write for prices to other points.

Mill Work

New Material Only

We have on hand at all times hundreds of thousands of items of mill work of all kinds. Can furnish anything from a single item of a door to a carload of mouldings. The stock is here where you can inspect it before purchasing. We are prepared to furnish complete House Bills on short notice. Send us your list for our Estimate naming you delivered prices. Following are some of our low prices:

Front Door, 2 feet 8 inches by 6 feet 8 inches by 1 1/2 inches. No. 10A99	\$2.30
Frame for same, soft pine. No. 10A99	1.85
Interior Finish for same, clear yellow pine. No. 10B97	1.22
2x2x8, 2-Light Window, glazed. No. 10A11	1.05
Frame for same, soft pine. No. 10A11	1.35
Interior trim for same, clear yellow pine. No. 10B97	.30
Barn Sash 8x10, 4 lights glazed. No. 10A98	.45

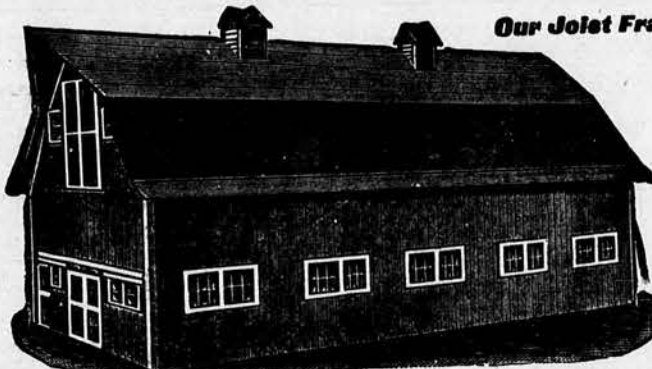
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Sizes and Prices

No.	Size	Ht. to Plate	Ht. to Top of Roof	Price
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223	36x80	18 ft.	38 ft. 6 in.	770.00
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