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Durum Wheat as a Dry Farm Crop

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As to the amount of wheat that can be handled, there is no question that a considerably larger amount of the wheat can be readily marketed than has ever been grown. There is good reason, therefore, from this standpoint for increasing the production. Each year the supply is not sufficient to meet the demand. This, of course, is largely because of the great amount exported. Some have remarked that the export is now likely to decrease because of the larger production of this kind of wheat in other countries. It may be noted, however, that the domestic use of the wheat is continually increasing and during the past year has increased more rapidly than at any other period. About twenty important flour mills in the country are now grinding this wheat every year, some of them using for this purpose their entire capacity the year round. The names of these mills will be given at any time to the parties individually or commercially interested. They include some of the largest milling firms in the world. This list too covers probably not more than half the entire number of mills in the country using durum wheat, but simply gives the extent of our own information in the matter.

In view of the fact that durum wheat is so admirably adapted to semi-arid districts and must be grown without irrigation to give best results and at the same time has received opposition from mills in certain quarters, it will be important to give the following facts with respect to it which are obtained from actual experiments either by this department or by millers and bakers using the wheat and flour.

1. The export is now about 20,000,000 bushels per year, a large part of which goes to central and northern Europe for bread-making. The amount being used for bread increases each year.
2. There is an unmistakable increase in the use of durum wheat flour in this country each year for bread, a very large proportion so consumed being ground by Minneapolis and North Dakota mills.
3. In respect to every objection made by millers and bakers to this wheat, when the wheat has been properly handled it has been found that such objection is not well founded.
4. Even the objection of the stronger color in the flour and bread is almost entirely overcome by many bakers in their method of handling the dough.
5. The size of the loaf also, which is smaller than that of loaves produced ordinarily from other flour but which is purely a mechanical matter and of value only to bakers, allowing them to sell that much more air than bread for the same price, is largely controlled also by the same methods that modify the color. On the other hand the advantages are:
6. Unquestionably a better flavor in the durum wheat flour.
7. Durum wheat bread, being more moist, will remain fresh half as long again as bread from other wheats.
8. The baker can get many more loaves of bread from one barrel of flour because of the greater absorp-

tion of water, so that he can sell more water at the same price in durum wheat if he cannot sell so much air.

9. The baker also makes a saving of a considerable amount of sugar per day in his regular baking in using durum wheat flour, as a prominent baker has stated that no sugar is needed in making this bread because of the large amount naturally found in the flour.

The above points mentioned are in respect to the commercial side of the subject. As to the adaptation of durum wheat as a crop to the semi-arid districts, this has been thoroughly demonstrated for many years. Durum not only gives uniformly a yield of from 33½ to 50 per cent greater than that of other wheats under the same conditions in such areas

but will even produce a crop when other wheats practically fail. The present production of durum wheat is probably somewhere near 60,000,000 bushels per annum, about 50,000,000 of this amount being produced in North Dakota, South Dakota and western portions of Minnesota and the other 10,000,000 western portions of Nebraska, Kansas and Oklahoma, in the Texas Panhandle, eastern Colorado and scattered localities over the Rocky Mountain and Pacific coast regions. Probably fully two-thirds of the acreage of durum wheat is in localities where, on an average, other wheats would be a failure. There are, therefore, about 40,000,000 bushels of wheat added yearly to the total production in the United States by virtue of the introduction of durum,

which was accomplished in the year of 1900.

Although durum wheat is now a thoroughly established crop both agriculturally and commercially, its introduction has been attended with many difficulties, and, unfortunately, these difficulties have been unwittingly brought about at times by the friends of the wheat. For example, it is extremely important to grow durum only where the rainfall is, on an average, at least below twenty inches per annum. If the soil is sufficiently retentive of moisture fifteen inches is sufficient for a good crop. Where the rainfall is greater than twenty inches there is certain to be a deterioration in the quality of the kernel, more so than in other wheats, but because of the great yielding power of this wheat enthusiastic farmers have grown it where it should not be grown and have thus injured the reputation of the wheat. It is, therefore, also true that durum wheat should never be irrigated. In many cases under experiment durum wheat when irrigated and grown on lands similar in every other respect to that where there was no irrigation has furnished samples of wheat so very different from the other that they could not be identified by ordinary parties as being the same wheat. Also durum is strictly a spring wheat under ordinary conditions and, therefore, cannot be grown profitably in the South, unless sufficiently far south to be sown in the fall or mid-winter without injury by cold weather. An effort is now being made by the department to develop a winter variety of durum with already partial success, but from three to five years will probably yet be required to establish such a variety. Durum should be kept constantly free from other kinds of wheat, no more because of injury to the other wheat, however, than because of injury to the durum. Importers will promptly refuse durum wheat that has any considerable mixture of common wheat.

There are several varieties of durum but the most common one grown in the United States, and by far the best for bread-making, is the Kubanka. The names Arnautka, Wild Goose, Beloturka, and Nicaragua are synonyms.

Importing Railroad Ties.

The Santa Fe closed an order for 1,000,000 Japanese ties. The company has planted 10,000 acres in California to eucalyptus trees for future supply. The criminal wastefulness of our once apparently illimitable timber supply, could not be more strongly emphasized than it is in the few lines quoted. This, the newest of countries, and originally the most heavily timbered, going to a country that has been densely peopled for thousands of years for timber supplies is among the remarkable anomalies of history. Under proper conservation, our western railways would now be drawing abundant supplies of ties from the now barren and abandoned hills and mountains of New England; from lands excellently adapted to forest growth but poorly adapted to other functions.



"Ah, Ha,--Good Morning!"

The Problem of Cattle Production.

The farm economics of today are somewhat confused and blurred by the general rise of prices on land and land products. While these are very real assets to the farmer and have enormously increased his capital and credit, even if considered relatively to the increased value of city and other property, they do not for the moment tend to the increase of land fertility. It is the fertility of the land more than the price of its product that will from now on constitute national wealth. Our national welfare will depend more on our ability to secure to the population at large a supply of varied wholesome food than on our exports. Our beef exports for the first eight months of 1909 show a decrease in money value of \$116,500 over the same months of 1908 and so on down the line all exports are in diminished volume, if not every year, at least over a term of years.

The conquest of America when its fertile lands West of the Alleghenies were reached became a war to wrest from fertile prairies their stored fertility and market it—to market it at any price in any land if only it left enough to give the family a foothold to establish itself in the conquered country. Like the vanguard of any other army the pioneers only looked at, only felt, one impulse—to gain ground, to effect lodgement. That they themselves were consumed in the effort, that many of them never reached the promised land, never gave them pause. Always before them rose the future of their children, each with a sufficient farm of their own, each again with happy children, and they were repaid for all. But that is an old story though new chapters of it are still written every day and will be in other forms so long as the country continues.

The promised land that evaded the early settler and seemed always across the next range of mountains or another desert, did not lie in any particular patch or number of acres. It lay in an economic condition that affected not only the older states of the Union but the whole of Europe. It was the realization of an unearned increment, for the settler was barely paid for his labor, not only by the United States but by the world at large. Just at the time in the "seventies" when Europe seemed to be halted on her road of industrial expansion, came the needed supplies of food from this country. While it is true that some of the greatest developments of present day civilization have followed increased production of gold through the discovery of new gold fields and new processes of extraction, and the consequent increase in our rather arbitrary tokens of exchange and one of our expressions of value, yet all the gold produced was never worth a ton of steel nor the produce of land sufficient to nourish the man who wielded the tools of civilization.

Traced to their true source the developments of the last 30 years, much as they have been fostered and pushed by scientific discovery and invention, will be found most largely to have rested on the famine to be faced. The enormous wheat fields of Canada may again give us cheap wheat for a time, but today the farmer no longer looks on wheat as his only cash crop; indeed insofar as land fertility is concerned the easily-realized cash value of all crops is the greatest danger. There is hardly any crop that will show a profit if fed to stock; especially is this true of the irrigated West where scarcity of farm pastures and the intensive work of summer make stock keeping inconvenient. In a country best suited to arable farming the farmer usually secures his supply of manure at considerable inconvenience to himself and in some of the coast states where pasture grass does not flourish the manure may often be his only profit. This has been so in the past but is it to be always so or are these conditions to be continued even in the near future? It is extremely unlikely. Just as Europe has been relieved from a crushing competition from the cheaply-raised imports from the United States so will the eastern states now be relieved from the crushing competition

Supply of Wholesome Food Means Much for our National Welfare.

in beef production they have been subjected to from the western states.

While free grass is a term that has been for many years a misnomer and a work-to-death term, grass at any rate existed in large tracts and pastures would be rented. This condition has largely ceased to exist. The pastures are being put under plow and in the greater part of the West can never be reseeded with pasture grasses—not at any rate under ten years. Whatever may be the outcome of dry farming, the grasses natural to the West of small bulk but of great nutritive value are doomed. A series of dry years may drive out the dry farmer, but his trail will merely be covered with weeds and his work of destruction can never be effaced. It was for a long time held by men competent to judge that the big cattle outfits would be replaced by a number of small stock raisers whose aggregate production would exceed that of the previous occupiers, but this hypothesis was based on there remaining a sufficient amount of grazing for summer use to be only so far supplemented by husbandry as to furnish winter feed. But this is not at all what has occurred when the flood of settlers rushed over the far West previously considered too dry for farming. Except where mountain ranges lie back of the plains they swept everything before them, small stockmen and big, and they are still plowing into the gaps and crevices left unoccupied by the first rush with no signs of a let up, and so far as grass is concerned they cry, "Havoc" and let loose the Gods of war—or at any rate steam plows, disk plows, and other short grass exterminators. On account of the limited land and capital at the command of these settlers live stock does not enter into their scheme of things. Even bossy is replaced by the condensed milk can.

Any return to beef production in the West must be based on farm methods and will compete with the middle states with a big handicap—lack of pasture grasses except perhaps in the mountain ranges. For some years past the feeder end of the beef run has been the big end and would have shown even a greater preponderance had we not got used to eating beef that a few years ago would not have been considered fit for slaughter. Indeed the packer and the feeder have constantly differed as to the dividing line of their respective activities and the high dollar had to settle the dispute. The reduction of the western beef supply will make for better farming in the East, but the reduction of feeders is ominous to good farming. By this reduction the good farmer is threatened with a lack of animals to consume his crops or at any rate with such an insufficient supply that the price will be prohibitive, because he always has to bear in mind that there

is a limit beyond which the average consumer cannot be carried—at least not suddenly. It has been the constant teaching of the middle state journals that a cow could not be carried a twelvemonth "for the chance of a calf," and under the prevailing prices of the last few years this is no doubt correct, unless it was done by men raising beef on a large scale with expenses reduced to a minimum. And even these men constantly changed from beef raising to beef feeding, compelled to do so by prices, the price of feeders being still too low to warrant their production in the middle states, which were at one time and will be again the great nurseries of our beef herds, even if these shall be in part engaged in the production of milk. There are many causes which must induce this among which will be the increased demand by the West for its own feeders to keep pace with its increasing beef consumption. If any are inclined to doubt this let them remember when meats were a drug on the Pacific Coast only a few years ago and consider that now these are meat importing states. California, though a great poultry state, imports vast numbers of the heavier roasting class of chickens from Nebraska, Kansas and Iowa, to say nothing of all its high class beef. It has often been said that the bulk of high class lard-producing hogs would be confined to the corn states, but this contention is based on the assumption that lard is worth more than beef and corn more than grass.

So soon as the West shall feel the need of resting the land from hoed crops, barley and alfalfa, both great pork-producers, will increase hog production if prevent prices prevail, and hogs can be more easily worked in with irrigation farming than can beef production in its early stages, and this is also true of sheep and dairy products. To suppose that the great valley of the Mississippi and the adjoining states are to remain in a secondary position in regard to beef production would be ridiculous. There is no grass country in the world capable of growing pasture for seven or eight months in the year in which grass does not even take a large place in the rotation if not permanent pasture. Not only is it profitable in itself, but it is the only means by which land distant from large extraneous supplies of manure can be kept in profitable condition. Where a large part of the land can be kept in grass and beef cattle raised the manure problem is solved and the land producing other crops forced to a maximum of production. The least number of acres produce the greatest possible yield, which should ever be the chief aim of the farmer—in other words, the most economic production.

Of late years the farmer of the corn belt has largely discontinued the prac-

tice of selling his corn to the big feeder, raising enough hogs himself to feed it off, marketing it direct or as dairy product, the enormous consumption of the latter having more than kept pace with increased production and at constantly higher prices. During this period beef lagged behind, a continuous liquidation of western cattle was taking place and the price paid to the producer bore no relation to its cost. Beef constantly appreciated in price to the consumer, it is true, but it was in many cases paying the whole expenses of a butcher shop and yielding a profit to the cutter besides, while pork and mutton scarcely paid their way.

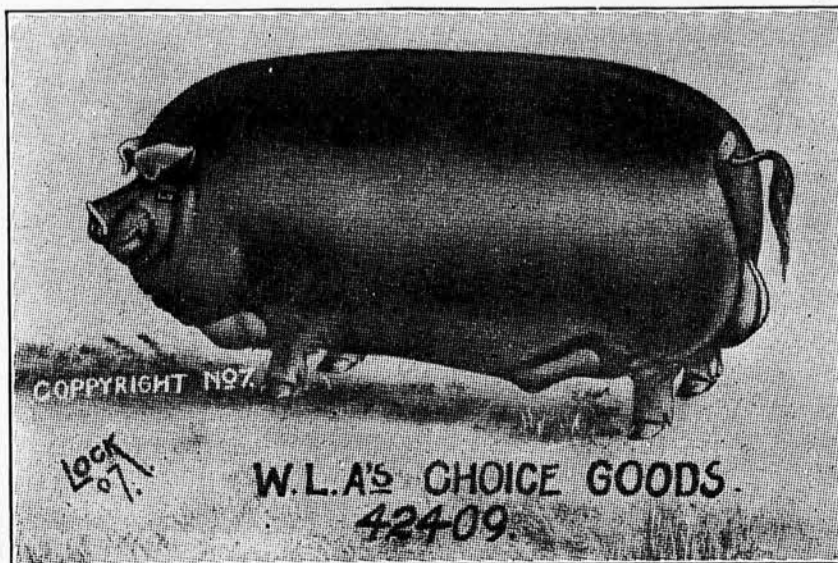
In the opinion of most men the West has tired of its requited philanthropy. It is passing up the burden of furnishing beef below the cost of production. It has disposed of its broad pastures to the man with the hoe for a consideration in excess of what it was able to realize by cattle raising.

By this it is not intended to convey that cattle raising will cease in the West, but that that surplus which made beef cheaper proportionately than any other commodity has ceased to exist and that even should it ever regain its former proportions the West will be able to consume its own product. May it not be worth while for the middle states to take hold of some of the well-bred stocks now being sacrificed by the West and not allow these well-bred youngsters, many of them representing the efforts in breeding of twenty or thirty years, to go to the butcher? It is with constant regret that the breaking up of these well-bred herds is noted. Many of them represent the best of American and imported blood for many generations on an originally good foundation. Many of these cattle are pure bred for all other purposes than registration. It is not with the idea that they will bring better prices that this course is urged; it is merely that some of the effort in building up these stocks may be saved from the wreck. The price will be at any rate for the present the one the feeder market affords and this should certainly prove an inducement to the man who believes in the future of beef for it gives him a chance to select and cull at the market price, to top out a herd of females of general excellence instead of slowly grading up through a long period. He can also select the breed of cattle that suits him best and continue improvement in line with characteristics already fixed. In buying young females today, even should every one be deceived in the future of the beef market, he would not be in any way involved for the growth on them would more than pay out. That there are many men who only await with eagerness an opportunity to return to the breeding of beef animals so soon as it can be profitably done is common knowledge. There is probably no better answer to the constant question, "How to keep the boy on the farm," than the answer, "Raise beef cattle."—L. Ogilvy in Breeder's Gazette.

Red Kafir Corn Seed.

Please send me your present quotations on your best Red Kafir corn seed in the head.—Geo. Mekeal, Quincy, Kan.

We do not sell Kafir corn in the head. Have only grade of seed which we are quoting this year and we sell this at \$1.50 per bushel. This seed is free from smut and practically pure in type. Have both the Red Kafir and the Black Hulled White Kafir. We have a limited quantity of seed in the head which we picked from the field and hung up in our seed house. This has not been threshed. Did not intend to offer this for sale to the trade. Will have a little more than we need for own planting and would sell this for \$3.00 per bushel by weight allowing 60 lbs. in the head for a bushel. For general planting, however, I would consider the other seed just as good. We had it all threshed before the first rain and it is in excellent condition. Will grade the seed, sack it and ship it f. o. b. Manhattan at \$1.50 per bushel as stated above.



W. L. A.'S CHOICE GOODS, OWNED BY W. L. ADDY, PARNELL, MO.

FUR ANIMALS OF TODAY

Their Coats Represent Many Dollars and are Eagerly Sought After

Notwithstanding the fact that civilization and progress have had great inroads upon our forest section, the northern parts of the United States are, today, one of the most prolific fur producing parts of the United States, and many men and boys are earning a good income trapping the fur bearing animals during the winter months. Although this industry has been systematically carried on for 200 years or more in this western country it seems to have lost none of its enchantment and it has progressed with the times, bringing increasing profit both to the trapper and the dealer in furs. The fact that America was wonderfully endowed by nature with her great resources is nowhere more manifest than in our production of skins for the fur market. With the exception of the sable of Russia, it can be truthfully said that all furs of highest quality and value are from America. Not only the valuable species unknown to Europe, but where competition and comparison enters, our production is said to excel in every case, in quantity and quality, the European article. We have the best silver fox and sea otter, skunk and muskrat. Bears are finer, beavers, too, and foxes and lynx are better as well as our American wolf.

In manufacture of furs our country is said to far exceed any other in workmanship as well as quantity and quality. It is the trappers' work that counts, and because of its thoroughness and skillfulness the American furs are bringing fabulous prices in Europe as well as in America. The foreign trade is handled largely by the Hudson Bay Company, which has a capital of \$1,000,000, owns a large fleet of steamers, making one voyage a year to London, where the great London fur sales are held, buyers coming from all parts of the world. These great sales are carried on as an auction; this method being much more common there than with us. Formerly the Hudson Bay Company sold their skins by the light of a candle; that is, a candle was lighted and until it burned to a certain point bids were received on the parcel of furs. But today they dispose of the skins from a modern salesroom, where they hold quarterly sales.

The trapping of furs, as carried on by this great company, forms a large part of the history of the great north, and the old Indian trapper is a figure not to be forgotten or laid aside. His skill and knowledge are still studied by the ambitious trapper of these later years and to his profit. These old fellows are fast disappearing, or settling down nearer to civilization as guides to hunting parties during the most of the year, going into the woods for only a short season. But although the times are changed from what they were 50 years ago, the dealer must still depend on the trapper for his wares, and the man who makes a study of his trade is going to succeed along this line.

The man who is likely to get the best results from latter day trapping is the one so situated that he can depend upon other employment while furs are out of season and, luckily for those most interested, the best time for trapping comes when the work on the farm is lightest. That old saying about furs being good only during the months which have an "R" in their names is about right, for the quality of the fur depends upon the degree

of cold. A mild winter produces an inferior grade of fur, while cold weather increases its value materially; so if good results are expected trapping should be done between the 15th of November and the latter part of April. The nearer the middle of the winter furs are taken the better the trappers' chances of securing prime goods. So if you have in mind a good place for traps and are not afraid that another fellow will raid it, do not be in too great a hurry to set the traps. Let the furs have all the good weather you can. Another fact is that furs from densely wooded sections are much darker and richer than from open sections, and it is true that a dark soil produces a much finer fur than sandy soil. Skunks, minks or muskrats from sandy sections are thinner in the fur and lighter colored than from dark earth districts.

Methods of trapping are largely the same as in the old days, and while many home made traps are still made and successfully used, the more modern steel trap is generally adopted. These traps come in various styles to suit the species of animal to be caught, from the common rat catcher to the great trap which ensnares old Bruin. While home made traps are cheaper to begin with, all will agree that they are troublesome to make and not always sure. Every animal has a certain sign marking his whereabouts, and the good trapper can read these signs as readily as he reads the advertisement on his neighbor's fence. He is observing and nothing escapes his notice. This observation becomes a habit, and almost without thinking he knows the proper time to set his trap and where it should be placed. He realizes, also, that these traps are vicious things and makes no mistake in the setting. The bait, too, is an important matter, and here the trapper's knowledge of animals and their likes and dislikes serves him well. He knows the appetite of his furred friends and caters to it. Most trappers have also a composition "medicine," as it is called, which they judiciously use. A good formula is a mixture of oil or anise, assaefetida and musk combined with fish oil. A drop or two placed upon the bait or close to it will work wonders. When wishing to outline a trail from trap to trap place this mixture in a leather bag, pierced with holes, and drag it from one trap to another, thus leaving its enticement all along the line. The careful trapper knows, too, that he must not place the bait upon the plate to the trap, but above or just beyond it, as he wishes to catch and hold the animal by the foot or leg and not by the nose.

All know that the pelt of the silver fox is one of the most valuable to be found and is like a pay streak in a gold mine. While the silver or black fox is more plentiful in Canada wilds it is still to be found within the boundary of northern Michigan. It is growing more valuable every year, single specimens selling in London for \$750. The greatest prices are paid for skins which are nearly black, but the general color is black with silver tips, the under fur being maltese

color and extremely long and luxurious. The red fox is also a treasure, but does not bring as high a price in the market and his gray brother is also much admired by Europeans. Everybody interested in furs knows the value and beauty of the American mink. The mink has all the qualifications for the highest prices excepting in length of fur, and the process by which a furrier produces a garment as high as 50 inches in length is most peculiar and interesting, as well as expensive. This process is called "dropping," and by it, the skin is lengthened to almost any desired point. The mink is easily trapped, because he is so inquisitive and curious, prying into all sorts of places on investigating tours about the country. His hole is generally under some root or rock near the water.

An animal with which the trapper will have much to do and which pay him well for his trouble is our little native, the muskrat. Though less valuable than the beaver, the skins are taken in such large quantities that they average up to a high rating; as many as five million skins are taken annually. The muskrat is used largely for felting to make hats in Germany, Russia, etc., and also to make linings for coats and cloaks for both men and women. This little fellow travels under many names after he is once in capacity of the fur market. We find him as Baltic seal, Russian mink, Kankakee mink, French mink, etc. The dealers say there is no skin they can so highly recommend for general purposes as caps, gloves, muffs and linings as that of the muskrat.

The beaver is one of the most interesting animals the trapper encounters and the furrier knows. The beauty of its fur is renowned the world over. In the early days of the Hudson Bay Company, and even as far back as 1621, beavers were numerous and were the standard of valuation among traders. So many wolves, minks or muskrats equalled a beaver skin. So much powder and so much shot equalled a beaver skin, or so many beavers would equal a gun. The homes of these little animals are so easily found, however, that they are fast being exterminated. The Indians believe the beaver to be nearly as intelligent as a human being.

Some of us can hardly credit the fact that our unpleasant neighbor, the skunk, is in reality, when finally admitted to the fur display, nothing less than the beautiful and fashionable black marten which is so much used in trimming ladies' capes, hats, etc. Until about forty years ago this gentleman was in disrepute, but when his fur was sent to Europe it was at once accepted as beautiful, and since then the demand has increased until at the present time more than 1,000,000 skins are taken annually in America, placing in the circulation of money nearly a million dollars. To the furrier these skins are known as black skunk, short stripe, narrow stripe and white, and the price is made according to the amount of white on the skin. All of the marten family are odorous, but

the skunk is the only member of the family having the power to throw the odor several feet.

Fruit Farming in Nebraska.

E. F. Stephens, an experienced fruit farmer of Crete, Neb., when asked to give a brief statement of results obtained from his first fruit farm during the season of 1909 replied as follows:

"This evening, I find myself able to state that sales of our fruit crop are between \$11,000 and \$12,000, fruit not yet all sold.

"Expense account, \$6,038.25. I may say that this expense account covers the expense of the whole farm of 240 acres, as all labor therein is paid by checks, makes no account of the product of the other 160 acres, devoted to timber, pasture, alfalfa and nursery stock, but the entire expense of handling the 240 acres as a whole is charge in the expense account paid by checks of \$6,038.25.

"The showing of the orchard therefore, should be better than the figures above, in case the expense account of the orchard could be kept by itself. The approximate margin on the season's orchard crop from Dec. 1, 1908 to Dec. 6, 1909 is \$5,500.00. It should be noted that this included the expense of hauling is a large amount of manure and straw last winter, the beneficial effects of which will be coming back from six to eight years.

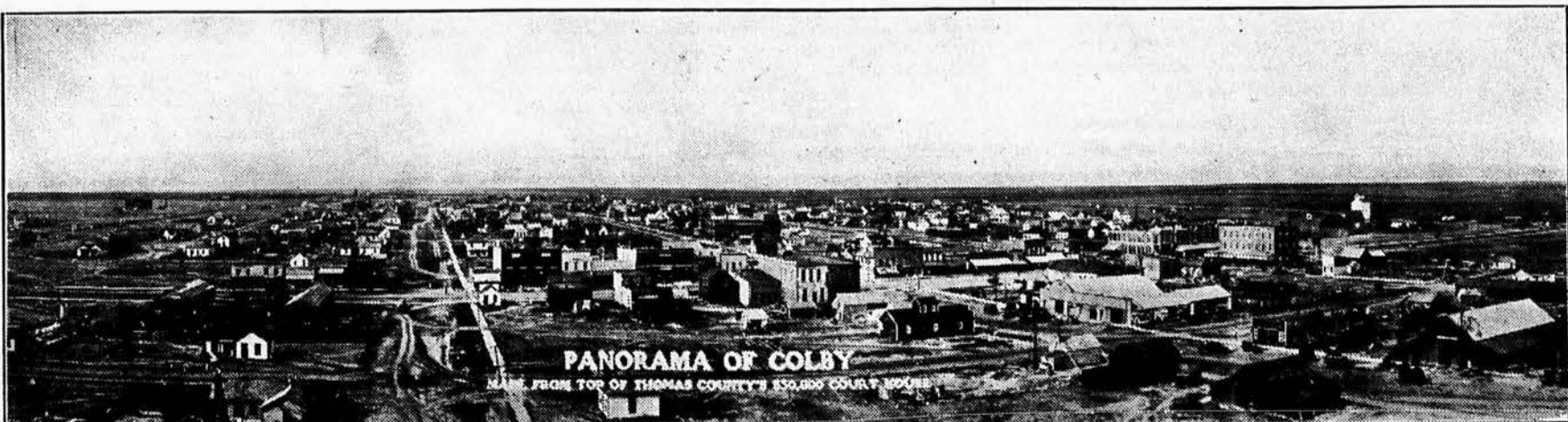
"You will note that \$5,500 pays 27 per cent interest on a valuation of \$20,000 or \$250 per acre for 80 acres of orchard. It should also be noted that two of the raspberry and blackberry plantations of perhaps four acres have just been planted and are not yet in bearing, and the entire orchard also not in full bearing the past season. I judge that the crop of apples, grapes and blackberries above mentioned were raised on perhaps 60 to 65 acres.

"This crop has been developed not as an accidental yield, but by the use of power spraying machinery for 20 years, free use of stable manure and straw mulching of the row, persistent annual cultivation of the ground between the rows, regular pruning. The orchard is apparently in condition to give many profitable crops.

"The tract, as a whole, is best suited to use as fruit and dairy farm. Some day there will be some timber to cut. There is quite a lot of alfalfa on a fair portion of the tract, giving us more than we can use for farm and nursery teams and serving as desirable rotation in the growing of nursery stock."

The Farmers' Veterinarian.

Dr. C. W. Burkett, formerly director of the Kansas Experiment Station is the author of a book of about 300 pages which he has named *The Farmers Veterinarian* and which is worthy of a place on the book shelf of every farmer. This book is published by the Orange Judd Company of New York; is well illustrated and covers just the points that the farmer most wishes to know about. Diseases of all classes of farm animals are described and treatment suggested. Dr. Burkett has done many good things but none better than this.



Prosperous Colby, the center of a rich a

gricultural region in Northwest Kansas.



KANSAS FARMER

EDITORIAL



In an address not long since Prof. Erf told of two New York farms near together and once of equal fertility. Now one is worth \$400 or more per acre and the other, 165 acres with good house, barn and outbuildings, had been offered to him for \$1,000. And he explained the difference in value by saying that cows had been kept on the high priced farm while soil robbers had ruined the other.

A grade Holstein cow on the 20-acre experimental dairy farm at the University of Illinois had been giving 40 to 42 pounds of milk a day for two weeks on a daily ration of 38 pounds of silage and 18 pounds of alfalfa hay. This is a little too much protein. We don't begin to realize the enormous work a good cow does. A steer will put on two and one-half pounds of fat per day, while a cow may give 40 pounds of milk containing five pounds of solid matter.

Just to give an idea of the work of the United States department of agriculture these figures will be interesting. There were issued during the year past 120 different publications, averaging 35 pages each, making a total of over 17,000,000 copies. The secretary's report embraces 152 printed pages, and summarizes the year's operations in a great number and variety of labors that are under the control of the department. The appropriations for the agricultural department last year were over \$16,000,000. The officials and employes number 11,140, an increase of 720 during the year.

One of Prof. Fraser's pictures taken in Germany was of a cow and horse hitched up together. Studying this matter of working the cow and its effect on the flow of milk, he found that the work was considered no detriment where the cow is very carefully handled, not hurried, fed a good grain ration, and not worked over five hours a day. He found four cows worked against one horse, each cow working just an hour in the forenoon and an hour in the afternoon. A plow drawn by three cows cut nine inches deep and eight inches wide and the outfit barely moved, requiring two and one-half days to plow one acre.

David Rankin of Tarkio, Mo., is the greatest corn grower in the world. He is also one of the largest feeders of cattle and hogs. He feeds from 10,000 to 12,000 head of cattle and 20,000 hogs every year. This requires about a million bushels of corn, most of which he grows on 17,000 acres of land. Mr. Rankin thinks we will never see cheap corn again. There is reason in this conclusion. The use of corn products, the export abroad, as well as the home use, has all increased enormously. In the last 15 years. Then, besides, the consumers are increasing in greater ratio than the producers, while, owing to ignorance of the laws of fertility, the amount per acre is constantly growing less.

Many million acres of coal land will be opened to use for agricultural purposes if Congress should pass a bill introduced by Representative Mondell of Wyoming. The bill authorizes entries under the homestead, desert land, Carey or reclamation laws of lands classified as coal lands or known to be valuable for coal, the government reserving to itself all the coal in these lands and the right to prospect, mine or dispose of it. It is estimated that there is just as much unclassified coal land territory as the 35,000,000 acres which have been already classified. The unclassified area cannot now be utilized for farming and millions of acres containing coal covered in the bill, may not be mined for generations, unless there is legislation.

RELIABILITY OF TUBERCULIN TEST.

Bulletin 107 of the Iowa Experiment Station is devoted to the subject of tuberculosis, its detection and administration of the test. The bulletin says: "While the tuberculin test is not claimed to be infallible, it is found to be so reliable that not more than .5 to 1 per cent of the animals condemned are not tubercular. Tuberculin is claimed to be unreliable, chiefly by persons who do not understand its use

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CONTRIBUTIONS.—Correspondence invited on all farm topics, live stock, soil cultivation, grains, grasses, vegetables household matters, recipes new and practical farm ideas, farm news. Good photographs of farm scenes, buildings, live stock, etc., are especially invited. Always sign your name, not for publication, unless you desire it, but as an evidence of good faith. Address all communications to

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and unscrupulous owners who do not wish to admit the presence of the disease in their herds. Those who have had most experience with this disease are inclined to think that cases of apparent failure of tuberculin in the very small percentage of cases in which it is inactive is due to the fact that the animals have undiscovered tubercles. A few tuberculous animals may fail to react on account of the advanced stage of the disease or the injection of tuberculin within several weeks preceding the test.

"Tuberculin is not all that is necessary in eliminating this disease from the herd. It must be accompanied by isolation of reacting animals, disinfection of stables and sanitation. Cows when purchased may pass a satisfactory test and react two months afterward. It may be that the test was made carelessly or dishonestly or it may have been made during the stage of incubation, which is from one to three weeks. The stable may not have been disinfected. A retest should be made in six months if many animals react. In all cases it should be made at least once a year. Pregnancy makes little or no difference.

FALL PLOWING FOR INSECT CONTROL.

A press bulletin from the Oklahoma Experiment Station says the weather conditions of that state are generally favorable for fall and winter plowing. This gives the Oklahoma farmer a marked advantage over many in states farther north, not only from a standpoint of tillage, but especially from the standpoint of insect control. Every year the insect pests levy an exorbitant tax from the farmer in general throughout the United States. Oklahoma is fortunately located in this respect, so that her agriculturists can, if they but will, make one "stitch save nine," and now is the time of the year to begin.

The boll worm not only injures the bolls of cotton, but is also a bad pest on tomato, okra, beans, peas and corn even before the latter tassels, in which case it is known as the bud worm, or when the corn is in roasting ear, in which case it is known as the corn ear worm. Like the alfalfa web worm it passes the winter in the pupal stage beneath the surface of the soil, and if not molested by plowing or a renovation of the soil before inclement weather approaches, it will have favorable conditions in which to pass the winter.

The chinch bug and the army worm winter over in the adult stage. Oftentimes fields overgrown with weeds, grass, or stalks afford ideal hibernating quarters for these and similar pests. Such fields should have this vegetation treated in such a manner that the vegetation may be buried deeply by plowing. Fields having such a growth that cannot be plowed should be turned over.

The unseen wire worms, white grubs and cut worms which live for a time

in the soil and do a great amount of damage to plant roots can be eliminated to a great extent by fall plowing.

THE STATE GRANGE MEETS.

Perhaps no single influence has been so powerful for the good of Agriculture in America as has the Grange. This great body of progressive business men and women seem to embody a degree of thoughtfulness that is not common in large associations and very many of the pleasant conditions which surrounded the farmer of today are due directly to the brainy, energetic people who compose it. The grange has had its ups and downs in Kansas, as in other states, but it is constantly growing and the field of its usefulness is constantly broadening. Whatever may have been the political or climatic conditions whatever may have been the stress of public opinion that grew out of these, the grange has always been right on all great material questions. Derided and often made fun of the grange has fought its battles quietly and yet forcefully and has won, at the meeting held at Lyndon last week Worthy Master George Black of the State Grange sounded the key-note of the future policy of that great body when he said:

"Organization and co-operation is the only relief for agriculture. There is no organization better adapted to co-operation than the grange."

"The metropolitan papers and the magazines of the country, 'are full of information about crowning the efforts of the American farmers. Even the department of agriculture is out with a report, showing the year 1909 to be the most prosperous of all years in agriculture; showing not only bumper crops but good prices. The fact exists that the farmers are securing better prices than they received, a number of years ago, but not any more than enough to pay a reasonable profit on their investment and labor."

"The spectacle of our farmers leaving their farms and flocking to the cities, is not a good indication that they are making so much money. Why should they do so if they are so prosperous? The fact of the case is, the farmer is not making the huge profits that the consumers provision bills would indicate. The great trouble is the complicated manner of distribution, is costing too much.

"There are too many middlemen and too great profits between the producer and consumer and the producers are the sufferers.

"All the trouble cannot be placed on the railroads and the large trusts, it is the smaller combinations in our smaller towns, and cities, that has a rake off from both the producer and consumer.

"The manufacturers are organized; the jobbers have combinations, and the retailers in the towns have an understanding, and in the cities an iron clad combination; and the result is

that the farmers are under paid for their produce, and the consumer is over charged, and the only remedy is, to increase your numbers in the grange, and establish co-operative exchanges.

"The National Grange has taken this matter in hand and have a committee appointed from Maine, Pennsylvania, Indiana, Illinois, Missouri, Kansas and California. The committee realizes the difficulties before them, but, it is possible to establish produce exchanges, which will grow into a system, that will cheapen transportation and eliminate so many intermediate profits, and be a benefit to both the producer and consumer."

That the year just closing exceeds all previous years in extension of the Order of Patrons of Husbandry in general was the statement made by Worthy Master Black, who predicts still greater growth in the near future.

"The condition of the order," said he, "is better than at any time since its establishment. A large number of permanent Granges have been organized than in any one year for 35 years and a larger increase of membership made during the past year than in any year since 1878.

"The influence of the organization in public affairs can only be estimated, that is was never greater than it is today.

"Good legislation concerns the farmers of Kansas as much as any part of our citizenship.

"Both the National and State Granges have always endeavored to create a healthy public sentiment in favor of wholesome legislation, and it stands to the credit of the Grange that its influence has always been for the best interests of the people."

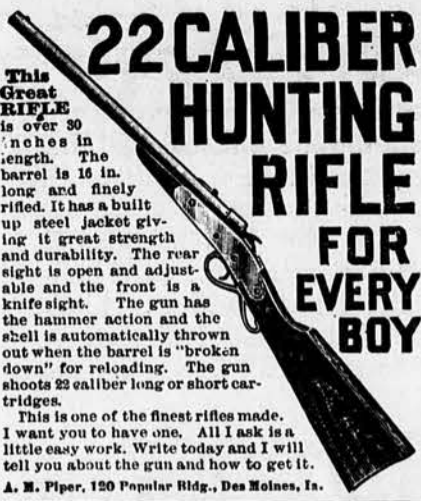
THE FARMERS' INSTITUTE IN ROAD IMPROVEMENT.

As Master of the Ohio state Grange, I am glad to join in welcoming the visitors from other states to this the second National Good Roads convention. Since your meeting of a year ago the grange principle of rotation in office has made me the successor to our representative at your Buffalo meeting last year, our distinguished grange worker, ex-Master F. A. Derthick, and I can only express the wish that while I have the honor to be at the head of the great farm organization of this state, I may be able to do as much to advance the cause of road improvement as was accomplished while he was in this position.

The Ohio state grange has always stood for better roads, and while we of the grange may at times have had differences of opinion with our friends of the cities as to methods of raising and expending the funds required to build and maintain our roads, there has been no question as to our support of the policy of improving as rapidly as possible the entire road mileage of the state. This does not mean that all our roads are to be immediately macadamized. The question of expense would make this impossible, and there are other considerations which render it necessary that the development of our road systems be carefully worked out, so as to give to each community the kind of roads best suited to its needs, and its fair share of the appropriations of state funds. So that in furthering desirable legislation on this subject, our first concern is, of necessity, with the relation of such legislation to the farmer's interests.

Although the question of road improvement is of direct interest to the residents of our towns and cities, it is, and must always be, one of prime importance to the farmers. By far the greater mileage of our roads are located in the farming districts, and the chief use of these roads is by the farmers in getting their products to market, and for social intercourse with their neighbor. In recent years the invention of the motor vehicle has served to bring about the general use of our highways by tourists traveling for pleasure, but although this use will doubtless be greatly increased in the future, the bulk of the travel on the country roads will continue to be that of the farm wagon or buggy. So while we join with our friends the

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owners of automobiles in the discussion of plans for advancing the good roads movement, we of the Ohio state grange believe that in spite of all that is said or done this will remain a farmer's question, and to be settled rightly, must be settled in accordance with the wishes of the farmers.

Perhaps I should qualify this statement by putting it: "the enlightened farmers." For there is no use in denying that for a long time the attitude of the farmers toward the good roads proposition was not as favorable as it should have been, and there are still many of them who fail to realize the great importance of improved roads as a means of promoting their prosperity, comfort and social welfare. This does not apply to the members of the grange, who are unanimous in favoring all practicable methods of road improvement, and who constitute the greatest good roads association in the country. But there are, unfortunately, millions of other farmers who have not yet been brought into our organization, and judging by conditions in these sections of the country where the grange is weakest, there is still urgent need for missionary work on behalf of better highways. National Master Bachelder has told you something of the educational campaign which the national grange is conducting with a view to reaching all the farmers in the United States, and showing them that their personal interests require prompt and vigorous action to induce their state and national representatives to enact necessary good roads measures, and we know by past experience that once the farmers are ar used, then can secure any just legislation that they demand. It is therefore fair to assume that the sentiment of the farmers, as affecting highway legislation, will be that of the farmers who understand the advantages of good roads and are determined to have them.

In his recent address before the American Bankers' association at Chicago, that eminent railway builder, Mr. James J. Hill, attracted the attention of the entire country by his warning that unless our agricultural population and its product is increased, we shall soon find ourselves facing the grave question of a deficient food supply for our people. He points to the undeniable fact that the farm is our main reliance; every other activity depends on that. If the farm is neglected, if food is not produced—somebody—and everybody—must go hungry. As he states the conditions:

"In spite of the warnings of economists, the amelioration of farm life, the opening of new and attractive employment on the land through the spread of irrigation and the growth of the fruit industry, the encouragement of public men and the wider dissemination of agricultural education, the percentage of our population who work on the farm constantly declines. If that proceeds too far, it is as if dry-rot has eaten through the timbers supporting some great structure."

"A stationary or declining product, a soil becoming annually less productive, a revolt against the life of the farm and a consequent rise in wages amounting, since 1895, to 55.6 per cent., with board, compel such a rise of all prices as bears ruinously upon town and country alike. Our real concern is not so much to save the home market from the inroads of the foreigner as to keep it from destruction by an enlarged city life and a neglected country life, a crowded artisan population clamoring for food and a foreign demand for the product of their wages limited to fields where the competition of all the world must be met and overcome."

While I do not wholly agree with Mr. Hill that there is any immediate danger of our being forced to become a food importing nation, some action must be taken to make farm life more agreeable and remunerative. I know of no way in which the movement toward the cities can be better checked than through the establishment everywhere of better road systems, and if the energy expended in preaching the doctrine of "Back to the Land" were devoted to advancing the good roads movement, I am sure that the conditions to which Mr. Hill refers would soon be changed, and the flow of population would be from the cities out into the country. It is estimated that there are in the United

States at least 400,000,000 acres of uncultivated fertile land awaiting settlement, and with good roads giving access from these lands to markets for their products, there would seem to be no reason why they should not speedily attract large numbers of the unemployed who crowd all our great cities. If he is a benefactor of his race who makes two blades of grass grow where but one grew before, surely they will be entitled to honor who make it profitable for the idle workers to grow, not only grass, but all the products of the soil, from our idle lands. As has been well said: "Land without man is a desert. Man without land is a mob." And in helping to bring the landless man out to the manless land, the workers for good roads are aiding in the solution of one of the great problems of our time.

In President Roosevelt's message accompanying the report of the Commission on Country Life sent to congress on February 9 of this year, he summarized the conclusions arrived at by that commission and stated that as the result of its investigations the following three great general and immediate needs of country life stand out:

"First, effective cooperation among farmers, to put them on a level with the organized interests with which they do business.

"Second, a new kind of school in the country, which shall teach the children as much outdoors as indoors and perhaps more, so that they will prepare for country life, and not as at present, mainly for life in town.

"Thirdly, better means of communication, including good roads and a parcels post, which the country people are everywhere, and rightly, unanimous in demanding."

The satisfaction of the first two of these needs will be greatly furthered by the construction of better roads in all the farming districts. Co-operation among the farmers is almost impossible, so long as dirt roads, full of ruts and holes, and almost impassable at certain seasons of the year, are the only means of connection between the farmer of each community. The grange has always advocated co-operation whenever practicable, and it knows that bad roads are the chief obstacle to the general adoption of this beneficent principle.

The need for a better kind of country school is also intimately connected with the road question. There is no doubt but that the establishment of centralized schools, at which the farmer's children can have all the advantages of a graded school and high school, would be of great advantage to the million of children growing up on our farms. Schools of this kind are now being established in those sections of the country where good roads make it possible to transport the pupils of an entire township daily from their homes, but to make this system possible of general adoption, it is absolutely necessary that the country roads should be greatly improved over their present condition.

The third need pointed out by the President's message is "Better means of communication, including good roads and a parcels post." From the farmer's standpoint this is the most important of all, as good roads would make cooperation, central schools and parcels post practicable, and they are therefore the first steps toward the improvement of farm life conditions.

It follows that improved roads will not only greatly lessen the cost of marketing the farmer's crops, and of hauling home the heavier articles he buys, such as coal, mill-feed, lumber, etc., and increase the productivity of his farm by enabling him to get his products to market in one-half of the time he now spends hauling small loads over poorly graded rough roads, but would also increase opportunities for social intercourse with his neighbors; give his children better schools; make possible the adoption of cooperative methods in buying and selling, and make it easy to establish a parcels post in connection with the present rural free delivery system.

In view of these advantages, can there be any question as to the urgent necessity for legislation by all the states and by the national government that will ultimately give every farming community the financial and social benefits which are inseparable from good roads?

The difficulty of securing the money needed for an adequate system of improved roads is more seeming than real. If our present tax systems do not provide sufficient funds, then new taxes, levied as far as possible on those interests that will be most benefited by the increased prosperity of the farmers, must be found.

It is useless for this great and wealthy country to say that the required appropriations cannot be made. They must be made, and if the farmers do their plain duty they will be made at no distant day, so that we can enter as soon as possible on the enjoyment of those advantages of which we have been too long denied.

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LIVE STOCK



Quality in Swine.

Prof. Kennedy states that quality in swine is indicated by the hair, bone and nature of flesh. For good quality the hair should be fine, straight and thick and lay close to the body. Coarse, wiry, swirly hair is not desired, as it is usually associated with coarseness of frame and undesirable feeding qualities. The bone should be medium fine, though strong enough to carry the body. Coarse bone is an indication of a tendency to dress out a large percentage of offal. The flesh should be free from lumps and wrinkles, and a deep, even covering of firm flesh over the back, loins, hams and sides. This is high quality and good condition.

Annual Pasture Crops.

I have 14 acres of corn stalks that I wish to seed with some mixture of seeds early in the spring for hog pasture. Wish to pasture the same until about August 1, and then plow the field and seed to alfalfa. What would be a good forage crop to plant to give me the earliest and best feed, and what time, in this climate, is it best to sow the same?—W. J. Stevanus Fulton, Kan.

I am mailing you circular giving information regarding "Annual Pasture Crops."

I think it advisable for you to sow a combination of early spring grains; oats, barley, and emmer, about one-third of each. Seed at the rate of 3 bushels of the mixed seed per acre. Sow very early in the spring, as soon as the soil is in fit condition to cultivate. If you are not able to secure emmer seed sow a little more parley and oats. Some richness may be added to the percentage, and perhaps an increase in yield or forage, by sowing about a half bushel of Canada or Colorado field peas with the above combination of grain. In which case a half bushel or a bushel less grain may be seeded per acre.

Pasture Crops.

I have a pasture that is not much good and I would like to ask how it would be to plow it up and sow it to cane for the cows and horses. Would it blot the cows when it was wet, and would it injure wild horses? My neighbor here runs his horses on cane and says it does not hurt them. However, he does not work his horses very much.—E. T. Miley, Hoxie, Kan.

Sowed cane makes a good sod crop. Cane is also good for forage, both green and dry, but there is some danger in pasturing cane, not due to bloating but to the fact that a substance is sometimes developed in cane animal, acts as a de-rscpeshhadyoni which, if taken into the stomach of an animal, acts as a deadly poison, killing the animal sometimes in a few minutes. This is not a very usual occurrence, yet it occurs frequently enough so that farmers generally consider it dangerous to pasture cane with cattle or other stock. The poisonous principle is perhaps more apt to develop in the second growth of cane. I am mailing you circular letter giving further information upon this subject of "Cane Poisoning."

Cane is perhaps really more valuable as a dry forage crop than as pasture, as a dry forage it is a practically safe feed. Other crops may be used as annual pasture perhaps more successfully than cane. I am mailing you circular giving information upon this subject.

A Hog Cholera Experience.

In your last number of KANSAS FARMER I notice Kansas is being scourged with hog cholera. I wish to give my past experiences with hog cholera. While a farmer in Ottawa county, Kan., in the fall of 1888, I purchased three car loads of stock hogs, making my number near 500 head. I unloaded my shipment at Mil-

tonvale. Had two dead on the car. From the smell I suspected cholera. I drove them out to farm, giving the herd the privilege of 150 acres of wheat to feed upon, with plenty of corn. I employed a veterinarian to doctor the herd, but to no purpose. They continued to die at the rate of six to eight a day. I noticed that as soon as one died the well ones proceeded to eat them, which I opposed until one time in December there came a day that all my force were engaged in shelling corn and had not time to haul off dead. Next morning I went to feed found three of four dead. Thinking the whole herd would die I concluded to let them do so and I left the dead. Had three sick at the time, two of which died. With these exceptions I did not lose another hog. From my observations would say cut up your dead and feed them to your well hogs. My notion is that the diseased flesh going into the stomachs of the hogs acted as a vaccine, preventing further cases in its virulent form. If anyone chooses to do as I recommend would be pleased to have them note "results and answer through FARMER.—H. B. Cronhite, 208 East Short St., Independence, Mo.

Short Versus Long Feeding of Beef Cattle.

Since the prices for feed stuffs have been so high there has been a tendency in the Central West when purchasing feeders to buy mature cattle and thus shorten the feeding period. This method of feeding has given rise to the term "short-fed cattle." At the Indiana Station experiments have been in progress the past two years to ascertain the comparative profits secured from feeding cattle by the two methods. In the two series of experiments reported two lots of 10 steers each were fed shelled corn, cottonseed meal, clover hay and corn silage.

Two lots of cattle were started on feed at the same time each year. The "long fed" steers used averaged at the beginning of the first test 1,010 pounds, and would have graded as good, fleshy feeders; the "short-fed" steers averaged 1,175 pounds and were carrying too much flesh to be classified as feeders, but would have been sold as killers if placed on the market at the time they went into the experiment.

The first test began November 21, 1906, and closed for the "short-fed" lot February 19, 1907; for the "long-fed" lot, May 20, 1907. The second test started November 17, 1907, and closed for the "short-fed" cattle March 15, 1908, and for the "long-fed" cattle May 15, 1908. . . . The variation in the price of corn during the two winters when the work was conducted, together with the fluctuation in the price of fat cattle, makes it necessary to use different prices in computing profit or loss from feeding. In the financial statements corn is valued at the prevailing market prices at the time of feeding; cottonseed meal at \$28 per ton, clover hay at \$10 per ton, and corn silage at \$2.50 per ton.

In the experiments of 1906-7 the average daily gain per head for the long-feeding period was 2.57 pounds, at a cost of 7.59 cents per pound, and for the short period 3.16 pounds, at a cost of 6.98 cents per pound, estimating corn to be worth 40 cents per bushel. In 1907-8 the corresponding average daily gain of the long-fed steers was 2.66 pounds per head, at a cost of 7.91 cents per pound, and of the short-fed steers 2.85 pounds, at a cost of 7.83 cents per pound.

In the first test the total amount of corn necessary to finish each steer was 34 bushels in the "short-fed" lot and 54.6 bushels in the "long-fed" lot; in the second test, 42.5 bushels in the "short-fed" lot and 61.1 bushels in the "long-fed" lot.

In the first test it was necessary to put on 285 pounds per head in the "short-fed" lot and 464 pounds in the "long-fed" lot to attain the same marketable finish; in the second test 318

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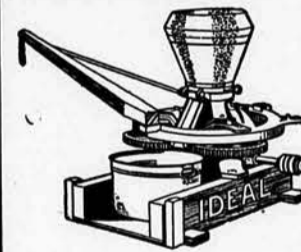
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pounds in the "short-fed" and 479 pounds in the "long-fed" lot.
 During the period when both lots of cattle were in the feed lot there was a greater profit per head from feeding the heavier, fleshier steers.
 In the first test the margin necessary to prevent loss on the "short-fed" cattle at the time of marketing was 48 cents per hundred; on the "long-fed" cattle at the same time 50 cents, and on the "long-fed" cattle at the time of marketing \$1.04 per hundred.
 In the second test the margin necessary to prevent loss on the "short-fed" cattle at the time of marketing was 92 cents per hundred; on the "long-fed" cattle at the same time \$1.01 per hundred, and at the time of marketing \$1.54 per hundred.
 The cost of gains was cheaper on the thinner cattle during the first three months of the test, but when fed to the same marketable finish the cost of gains was practically the same.
 In short feeding cattle for late summer and fall markets it is necessary to start with very fleshy feeders of excellent beef type in order that they will not sell in competition with western grass-fat cattle.
 During the winter of 1907-1908 there was a marked improvement in cattle values between the time of marketing the "short-fed" and "long-fed" cattle, which makes a showing in favor of the long period very much better than it would in prices had remained stationary.
 The data presented clearly show that lighter and thinner cattle make cheaper gains than heavy, flesh feeders if fed the same length of time, but where fed to the same marketable finish the cost of gains will be practically the same; that heavy, fleshy feeders, suitable to be finished in 90 to 110 days, will cost practically 50 cents more per hundred than cattle similar in every respect except that they do not carry so much flesh; that the difference in cost of the fleshy feeders and light thin feeders both during the fall of 1906 and 1907 was not great enough to offset the difference in the cost of making gains in the feed lot. This shows that it is generally cheaper to buy flesh on the feeders than to put it on in the feed lot. It was necessary to put on 464 pounds during the first test and 479 pounds during the second test on the "long-fed" cattle, and 285 pounds in the first test and 318 pounds in the second test on the "short-fed" cattle, while in the feed lot, to make them equally fat. It was necessary for the "short-fed" cattle to increase in value 16.6 cents per month for a three months period, while it was necessary for the "long-fed" cattle to increase 17.5 cents per month for a six months period, with corn at 40 cents per bushel, in order to break even on feeding cattle without counting the value of either hogs or manure.
 Experiments in feeding short versus long periods have been conducted at the Ontario Experiment Station for several years. In one of the later experiments 8 steers fed for 77 days made an average daily gain of 2.25 pounds. The same number of steers fed for 160 days on the same ration made an average daily gain of 2 pounds. During the 3 years these experiments have been in progress the short-fed steers as a rule have returned higher prices per steer than the long-fed steers. At the Canada experimental farms the best results have sometimes been obtained with the long-fed steers. In one case 7 steers fed for 180 days gained 2.36 pounds per day, at a cost of 4.26 cents per pound, while a similar lot of 8 animals fed for 130 days gained at the rate of 2.08 cents per pound.
 On the whole, these results at the different experiment station are to the advantage of the short-fed steer, but a change in market conditions might easily reverse the situation. For some time there has been a good demand for the short-fed steer, and feeders have been inclined to let them go in an unfinished condition. These conditions may not hold for any length of time, for if too many join the ranks of short feeders the price of short-fed cattle may not be commensurate with the long-fed, as there are some consumers who demand prime beef from the finished steer. The success of the feeder will depend on his skill in buying, feeding, and in forecasting market conditions.—U. S. Department of Agriculture.

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THE FARM



Eleven Acres; Twenty-Five Cows.

An Illinois correspondent says two of his neighbors made a new departure last summer in feeding soiling crops instead of pasturing their cows—16 cows, 4 yearlings and 20 calves, equivalent to 25 cows, from April 20 to September 10.

It required 1½ acres of September-sown rye, 4 acres of oats in a succession of sowings, 2½ acres of millet, and an acre of early sorghum, a half-acre of late sorghum and 1½ acres of corn.

The 11 acres of green feed lasted 4½ months, till the new silage was ready. Much feeding was saved by running the sorghum and the corn through a cutter.

It would have taken 50 acres to pasture the herd. Even with the added labor of cutting these crops, the experiment was successful and demonstrated that the feed acreage can be greatly reduced. But with plenty of silage next summer most of these crops will not be needed. Here is proof that any farmer can provide against short pasture in summer drouth.

Barn Building.

I expect to build a bank barn 60 by 46 feet with basement 8 feet in the clear, upper part to be 14 feet to square. Roof to be ¼ pitch. Posts in the basement to be about 12 feet apart. The drive is to come in from the side in the middle. Twenty feet on each end to be used for hay and middle 20 feet for unloading hay and for storing machinery, etc.

What I wish to know is the relative cost of plank and reinforced concrete construction. I would like to make it as near fireproof as possible and permanent. What would be the probable cost of the steel used for reinforcing to put in a concrete floor above the stable as compared to wood construction? Could the floor be made a solid slab or would it have to be divided up in blocks like a sidewalk? Any information from trustworthy sources will be thankfully received.—W. V. Jackson, Coldwater, Kan.

A fireproof or even slowburning barn is an impossibility. The roof, the floors, the partitions, the bins, the doors the windows are necessarily made of lumber, and the hay, straw, implements stored, etc., are highly combustible materials.

A barnfire seldom starts from without so that stone or concrete walls will give little protection. It is ignited either by the careless use of matches or the lantern, or by lightning. There is also some danger of spontaneous combustion started by the rapid fermentation of the hay.

These are causes that can not be counteracted by making the walls or the main floor fireproof.

Fireproof basements and floors can of course be constructed of reinforced concrete. The walls would not cost very much, but a serviceable concrete floor over the basement would cost half a dollar per square foot for work and material and this would mean \$2,000 for a floor 50 by 80 feet—an outlay way above the bank account of the average farmer.

The only solution of the problem is to use the barn for storage purposes and to build a detached stable for the cattle and horses. Such a separate structure—neat, warm, well lighted and ventilated, substantial and clean, connected with the barn by an overhead or narrow-gauge steel track and provided with a small car for hauling the feed will not increase the cost as much as an effort at constructing a slow burning barn and it will be more hygienic. Hay and grain in a barn deteriorate much through the presence in the basement of the barn of cattle and especially of hogs. Last summer the writer saw a number of such barns and cattle stables in Central Europe and has convinced himself that it is the best solution of the problem.—J. D. Walters.

My Experience in Building an Alfalfa Barn.

To THE EDITOR—A few years ago I built a barn to put alfalfa hay in. While I consider it a good investment I see that I made several mistakes which I will try to point out, thinking that some of your readers may be benefitted by my doing so.

I built an octagonal barn, sides 20 feet square, set it in center of a field of alfalfa 80 rods square, made a gable on one side in roof to take in hay, with the track running north and south, and drive-way doors on east and west sides, hay taken in on south side. When I take hay out am obliged to cut drive way through first, then take out sides. Find it considerable work to do this and a mistake to take hay in on south side as there is more exposure to sun.

I built with the intention of taking the hay out of windrows with buck hakes to barn, then drop it on a sling then dump into barn. I could do this very well, but became dissatisfied with that method of curing alfalfa hay and now put it in shock. Then I found the rakes did not take it out of shocks to good advantage. Then I made two floats which are simple platforms 6x12x14 feet long with ends built up about 2½ feet high, hang a sling on with ends hitched up so as to be easy to hook on to, then a man and team goes out and puts on a sling load, drives to the barn with two floats and a team kept on pulley rope. I find it a cheap and fast way to put hay in barn.

Now if I was to build another barn for hay I would have a drive way the same way the track runs, then I would have posts on both sides of drive way as far apart as I wanted drive way wide, twelve feet I consider a good width, and have posts twelve feet or more apart the other way. Then I would have a hay distributor which is simply a platform about 12 or 14 feet square, suspended on a track attached to top of posts, so that it can be held slanted so as to put hay on either side by causing it to slant the way the hay is wanted to go. Then I would fill sides first in sections, then drive way in sections. Then the hay can be taken out without cutting. Barn built expressly to put hay in is not very expensive. I have had considerable experience stacking hay and putting it in barns and I think a hay barn pays from 25 to 30 per cent yearly on the investment. I think it is a good idea to brace well. It costs little and does no hurt.

I wonder farmers are so slow about building barns, especially hay barns. The demand and price of alfalfa hay and meal seems to be increasing all the time, and I think farmers in this state are not awake to this opportunity with alfalfa, as they ought to be.—J. A. Gifford, Mitchell Co., Kan.

Farm Boy will get Education.

In talking recently with two bright young men in my neighborhood, says a writer in Farm World, they declared they would be obliged to give up farming because they could not afford to go to an agricultural college, and therefore feared they would be so badly handicapped with other young men who had received a college education, that they could not succeed.

This is a mistake under which many young men labor. Of course a college education in agriculture is an extremely valuable asset to any young man, but to say that one cannot succeed in farming without it shows a woeful lack of resource and courage.

After all, and without in the least disparaging agricultural college training, the farm is the best school in the world. A boy may have all the book learning that can be crammed into his head in a four-years' course, but unless he can work out the problems in the soil with his own hand and with the animals, fruits, flowers and every growing thing by actual contact and

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GALLOWAY SAVES YOU \$50 to \$300

SAVE from \$50 to \$300 by buying your gasoline engine of 2 to 22-horse-power from a real engine factory. Save dealer, jobber and catalogue house profit. No such offer as I make on the class of engine I sell has ever been made before in all Gasoline Engine history. Here is the secret and reason: I turn them out all alike by the thousands in my enormous modern factory, equipped with automatic machinery. I sell them direct to you for less money than some factories can make them at actual shop cost.

All you pay me for is actual raw material, labor and one small profit (and I buy my material in enormous quantities). Anybody can afford and might just as well have a high grade engine when he can get in on a wholesale deal of this kind. I'm doing something that never was done before. Think of it! A price to you that is lower than dealers and jobbers can buy similar engines for, in carload lots, for spot cash.

An engine that is made so good in the factory that I will send it out anywhere in the U. S., without an expert to any inexperienced users, on 30 days' free trial, to test against any engine made of similar horse-power that sells for twice as much, and let him be the judge. Sell your poorest horse and buy a

S-H-P. Only \$119.50

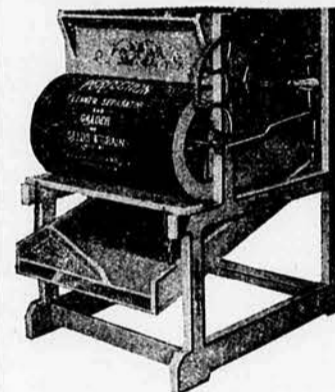


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Write today for my beautiful new 50-page Engine Book in four colors, nothing like it ever printed before, full of valuable information showing how I make them and how you can make more money with a gasoline engine on the farm. Write me—

Wm. Galloway, Pres., Wm. Galloway Co.
385 Galloway Station, Waterloo, Iowa



From Factory to User

The Perfection is guaranteed to be the best cleaner, separator and grader on the market. Mr. F. D. Coburn, secretary of the Kansas State Board of Agriculture, says of this machine: "It is nearer perfection than anything of the kind I have ever seen, and far more so than I had supposed possible. I couldn't have believed it without seeing it." Heretofore the jobber has handled this machine. We now propose to sell it direct to the user, thus cutting out the profits of the middleman. Write us for particulars.

The Jensen Mfg. Co., Topeka, Kan.

WHEN BUYING A CORN SHELLER.

Insist on Clean Shelling, Thorough Separation, Large Capacity and Lasting Qualities. These are Distinctive Features of

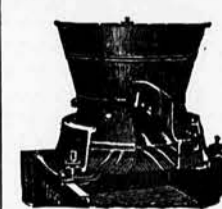
The NEW HERO

2-hole and 4-hole Custom and 2-hole Farmers' Positive Force-Feed Shellers

They have Chilled Working Parts and other points of strength and convenience. We make Horse Powers, Wood Saws, Huskers, Farm Trucks, Manure Spreaders, etc. We guarantee our Goodhue Wind Mills for five years.

APPLETON MFG. CO.,
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Write to-day for Free Catalogue.



Anti-Friction 4-Burr Mills Double the Capacity of Geared Mills. Two-horse mill has 24 ft. grinding burrs, (two set) all grinding at once, and grinds from 25 to 50 bu. per hour. Four-horse mill grinds from 60 to 80 bu. per hour.—30,000 BU. WITH ONE SET OF BURRS: I have ground with one set of burrs more than 30,000 bushels of corn with my Megal No. 1 mill and the burrs are still in good condition.—F. F. Craig, Mt. Carroll, Ill.

Two complete mills in one, has double the capacity and double the durability. ABSOLUTELY NO FRICTION OR GEARING. Will earn cost price in three days. The largest ears of corn to these mills are like popcorn to other mills. We manufacture the most durable and fastest grinding line of mills sold, including our FAMOUS IOWA NO. 2 for \$12.50. Send for our free Catalogue.

Bovee Grinder & Furnace Works, 118-8th St., Waterloo, Iowa

WICHITA

SUPPLIES THE UNITED STATES WITH FEED OF ALL KINDS,

WICHITA

Otto Weiss Alfalfa Stock and Penury Foods, sold in 30 states. Cotton and Linsced Oil Meal, Oyster Shell, Swift's Digester Tankage, or anything else you want in the Feed line. Send for Circulars and Prices.

THE OTTO WEISS ALFALFA STOCK FOOD CO., WICHITA, KANSAS

labor his education will count for nothing.

He can learn theory in the school-room, but he can get practice only on the farm. Any bright young man can these days, with the excellent books on agriculture that are easily available and the opportunity to work on a farm, fit himself for the very highest reward of agriculture.

Even if he cannot afford to go to the agricultural schools, he can receive a great deal of help from them, because the experiment stations in connection with the colleges in every state not only send their bulletins containing their results of their investigations by experts to every farmer desiring them, but will also answer any question asked, or give advice upon any subject of farming that may be desired.

In fact, most of the agricultural colleges are very excellent correspondence schools, and the aid and council they give to ambitious farmers, young and old, are invaluable.

If in addition to the information a boy can get from a few good books on farming—a sufficient library will cost him less than \$10—and the agricultural stations, he attends the college short courses, which are given every winter, he can easily fit himself to give the college-bred boy a pretty good chase in competitive farming.

The young man who is easily discouraged, or who feels that he cannot succeed in farming without a college education, lacks the spirit necessary to success; and we doubt very much whether such a boy would ever become a first class farmer, even if he had the advantage of college training.

The real, born farmer who would rather farm than do anything else in the world, who wants to know why things are so, and who is willing to dig for the facts for himself, instead of taking them second-hand, will succeed whether he ever sees the inside of a college or not.

Weeding out Poor Cows.

These figures furnish a very interesting study. Fourteen cows the first year averaged 5,800 pounds of milk containing 240 pounds of butterfat; that the 12 cows the second year averaged 7,105 pounds of milk with 260 pounds of butterfat, and that the 14 cows the third year averaged 8,057 pounds of milk and 307 pounds of butterfat per cow.

The greatest fact apparent at first

sight, is an average gain of 36 pounds of butterfat per cow, the second year, and another gain of 47 pounds of butterfat per cow the third year, a total of 83 pounds of butterfat for the two years. This means a gain of 97 pounds of butterfat per cow in the year's production, which at the average price is much more than the whole profit from the average dairy cow in Illinois. The above increase is known from an accurate record of the weight and test of the milk for a week at a time every nine weeks throughout the year.—Illinois Experiment Station.

Breed early but not too early. Early breeding develops the milk producing ability of the heifer and good feed and care prolongs it.

How will you keep the boy on the farm?

You may do what you will for the healthy lad—put him in Eden—give him what he most desires, he still has a longing at heart—a longing for travel and toward the town.

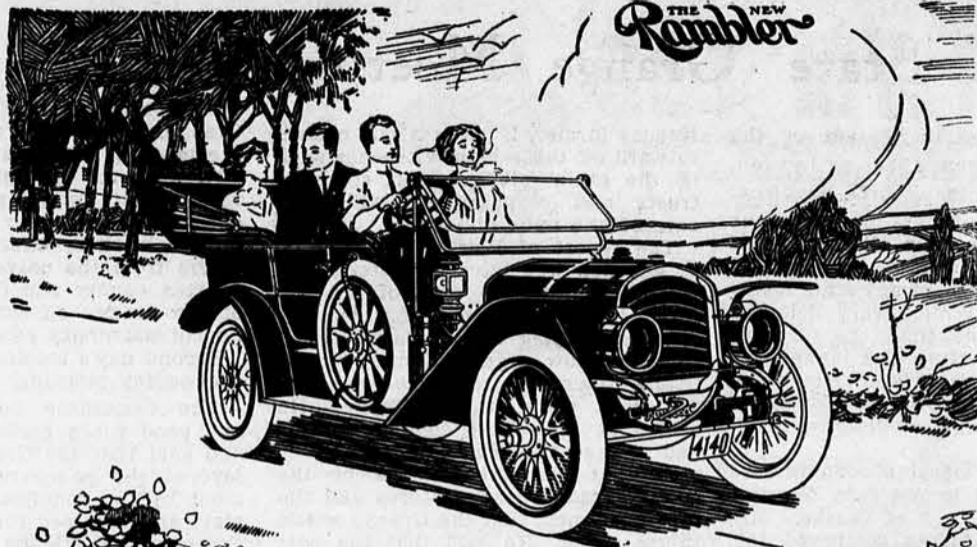
In the New Rambler he will find healthy recreation when his tasks are over—a sense of responsibility and pride in driving such a car—a pleasure exceeding any offered by the town.

Certain features absolutely essential in a car for country roads are found exclusively in the Rambler.

To the offset crank-shaft is due its hill-climbing superiority. The Rambler Spare Wheel saves the worry and much of the expense due to tire trouble. Compare those big wheels with smaller ones on other cars. Big tires, long wheel base and aluminum front floor are necessary to your comfort and satisfaction.

A postal card will bring you our new booklet full of pictures, facts and figures.

Thomas B. Jeffery & Company
Kenosha, Wisconsin



CORN BELT MILL

This mill is strongly constructed, and takes less power than any other mill of its capacity. The lathe-centered burrs insure fine, even grinding. The new feed regulator gives perfect regulation on ear corn as well as small grain. The burrs may be changed in three minutes. This feature is worth the price of the mill to a good many.



Try it 20 days FREE

We would like to have you test a Corn Belt Mill on your farm for 20 days. If it doesn't do its work better than any mill you ever used, send it back at our expense. Learn more about this mill. Write for booklet to-day.

SPARTAN MANUFACTURING CO.
DEPT. 55 PONTIAC, ILL.

Rambler Conservative Output.

In giving an estimate of their probable output during the coming year, Thomas B. Jeffery & Company, makers of the Rambler, state officially that they will build only 2,500 cars, a figure which in its smallness is likely to be astonishing to those who are aware of the immensity of the Jeffery plant and who have accepted the general idea of the enormous outputs which are being projected on the part of makers by no means so well equipped. The refreshing conservatism of the company's plans so far as quantity is concerned

is in marked contrast to the common tendency to exaggerate the number of cars which some manufacturers claim to be able to produce.

WESTERN CANADA

Senator Dolliver, of Iowa, says: "The stream of emigrants from the United States to Canada will continue."



Senator Dolliver recently paid a visit to Western Canada, and says: "There is a land hunger in the hearts of English speaking people; this will account for the removal of so many Iowa farmers to Canada. Our people are pleased with its government and the excellent administration of law, and they are coming to you in tens of thousands, and they are still coming."

Iowa contributed largely to the 20,000 American farmers who made Canada their home during 1909. Field crop returns alone during year added to the wealth of the country close to \$170,000,000.00. Grain raising, mixed farming, cattle growing and dairying are all profitable. Free Homesteads of 160 acres are to be had in the very best districts; 160 acres pre-emption at \$5.00 per acre within certain areas. Schools and churches in every settlement, climate unexcelled, soil the richest, wood, water and building lumber plentiful. For particulars as to location, low settlers' railway rates and descriptive illustrated pamphlet, "Last Best West," and other information, write to Sup't of Immigration, Ottawa, Can., or to Canadian Gov't Agt. J. S. CRAWFORD, 125 W. 9th St., Kansas City, Mo.



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in America. We have been making it for over 20 years. Do not buy until you see our new illustrated Catalog No. 41. Send for it now. It is free.

Austin Manufacturing Co., Chicago

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L. M. PENWELL

Funeral Director and Licensed Embalmer.

511 Quinoy. Topeka, Kan

Kansas State Grange Meeting.

The 38th Annual Session of the Kansas State Grange met at Lyndon, Kan., last week for a three days session. All the officers were present and 61 delegates from all sections of the state. This meeting was by far the most important of any state meeting ever held. While every delegate there had a fine time the meeting was not in the nature of a junket, but for actual practical work. The members were on hand promptly for every session and an intense interest manifested.

The Tuesday morning opening session was called to order by Worthy Master George Black of Olathe. Mr. Black in his address compared the meetings of the State Grange favorably with that of the National Grange. He touched on the inside workings of the National Grange and indorsed the work of that body and recom-



George Black of Olathe, Kan., Master Kansas State Grange.

mended the careful perusal of the report of the National Grange. He called attention to the great growth of the Grange and the fact that its membership now numbers over 1,000,000.

Senator Weaver delivered an address of welcome and urged the duty of organization of all farmers and cited the great good already accomplished by the Grange.

It was decided that a full press report be issued, giving to the public all matters of interest and at the same time protect the interests of the Grange. Reports of the worthy master was read and some other routine business attended to and an adjournment until 1.30 p. m. taken.

The afternoon session was opened by the reading of the report of Worthy Overseer Albert Radcliffe. He called attention to the fact that since the last meeting the farmers or the Grangers of Kansas have broken another record. They have produced more wealth in farm products such as cattle, hogs, horses, mules, sheep, corn, wheat, oats, barley, cane and Kafir corn, to say nothing of the dairy and poultry products, than ever before in a single year. Mortgages have been paid off, new homes built and many have retired and moved to the towns and cities to help make them more wealthy and prosperous.

He said, truly, that it is now a common sight to see a farmer and his family riding to town in their automobile or driving a fine team and carriage. He called attention to the fact that the farmer of today is abundantly able to take care of his own interest, financially, socially and morally. He criticised to some extent President Roosevelt's Country Life Commission and said that so much talk of uplifting and bettering the condition of the farmer created a wrong impression and implied much that was not true. He thought that if the Government would abolish the special privileges of certain individuals and certain interests and guarantee to every man rich or poor, every interest great or small equal rights and privileges before the laws and courts, that the wealth producing farmers of Kansas will come as near giving themselves an uplift by their own boot straps as any class of people in the world.

The Grange is doing much to bring about this improved condition, and the

Kansas farmer, if given a fair chance to ward off those hungry leeches such as the grain pit gambler, combine, trusts and corporations, will take care of and uplift himself.

The report of Worthy Lecturer A. P. Reardon was intensely interesting. He referred to the work of the lecturer in assisting to organize new granges, helping to stimulate interest in those now organized and getting Grange members to actually realize the great work of the Grange. He said that the worst combination he had to face was the fear of business men that the organization of the Grange meant Grange stores and the insurance men, that the Grange would injure them. He said that the best way to organize a Grange in a neighborhood was to secure a meeting place then make a house to house canvass of the neighborhood. He advised organizing in blocks or townships and said that only one Grange in a county would get lonesome. Mr. Reardon referred feelingly to those members of the Grange that have crossed the dark river since the last annual meeting and closed by urging every member to be as true to the Grange as is the old soldier to the flag he loved so well.

The reports of Assistant Steward C. T. Minor and Chaplain Sarah J. Lovett and others were read and approved.

Probably the most important report of the meeting was that of Worthy Master Black as assistant secretary of the insurance company. His report showed total risks Nov. 30, 1909, \$9,404,705; total risks Jan. 1, 1909, \$7,562,915; net gain in 11 months \$1,841,790. His report showed a balance in the treasury Nov. 30, 1909, of \$11,459 and an average cost on each, \$1,000 of insurance, \$2.41 and this is the highest of any year yet. He stated that the insurance books have now become a sure index of the rise or decline of Grange work. That the organization had ceased to fear competition from other companies for no sane man would pay \$20 for what he could obtain for \$10 and that a 20 year record plainly showed that percentage of saving to the insured. He showed that in spite of the fact that the organization had suffered 175 losses in the first eleven months of this year as against 78 all of last year, and all these losses paid, the company had on hand over \$11,000 in the treasury.

He said out of the 175 losses this year only four were from buildings burned by lightning and attributed this to the fact that over one-half of the buildings are now protected by lightning rods. He called attention to the small expense necessary for stock men to ground wire their pasture fences and what a saving of stock would be the result. He said that out of 51 stock losses this year all but four or five were from lightning.

He advocated the appointment of a State Fire Marshall for no crime of equal heinousness is not with such indifference at the hands of the law as incendiarism. It would be a star in the crown of the State Grange if

through legislature, committees and petitions such a law could be placed on the statute books.

By consent of the members of the Grange, Bro. E. B. Cowgill addressed the meeting on the subject of extension work for the Kansas State University. Mr. Cowgill proffered the cooperation of the university in its extension work by offering to send lecturers from the university faculty to address county and district meetings of the Grange on subjects along the line of university education.

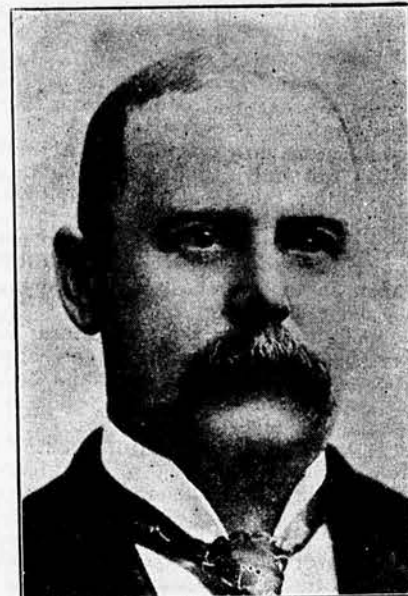
Second day's session opened at 9.30 Wednesday morning.

The committee on transportation and good roads handed in its report and said that the Grange has always favored the policy of road improvement by the counties, townships and state and indorsed the principles that the money should be provided as far as possible out of the funds raised by general taxation instead of an assessment on the owners of land through which the roads run and that they favored the enactment of legislation providing for the extension of the policy of state aid for public highway improvements. The committee favored the measures now in progress for the improvement of rivers, canals and inland waterways, but said that the means of transportation that appeals most strongly to the farmer is the ordinary railroad. In the early days the railroads considered that they were private property and not amenable to the public and not subject to government control. That contention no longer exists, but a still more serious danger, that of the railroad and allied interests endeavoring to control the government has sprung up.

The Interstate Commerce Commission is doing good work and should have the support and cooperation of the Grange. They said further, that the public highway over which the

that of the old Romans who bullded good roads hundreds of years ago, that are still good and that stand as monuments of the genius of the people at that day.

The government has used its funds



A. L. Hunt of Olathe, Kan., Secretary, Kansas State Grange.

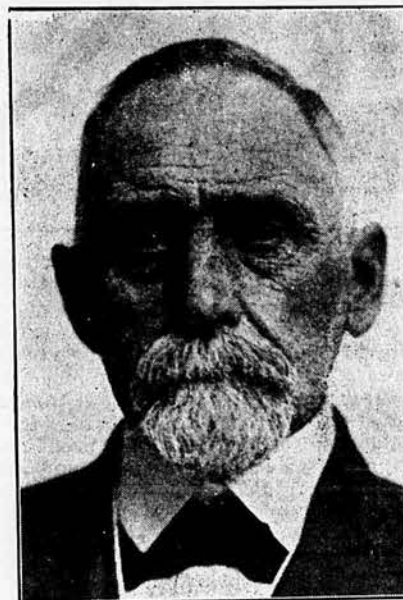
freely and rightly in the improvement of harbors, rivers and giving aid to the building of railroads and that it should now come liberally to the aid of public highway improvements. They urged that the Grange should ask for legislation along this line.

Wednesday evening was given over to an informal reception and entertainment of the Grange by the citizens of Lyndon. The last day's session was taken up at 9 Thursday morning.

The report of the committee on insurance showed that the Patrons' Fire and Tornado Association had proven the best system of protection to property from fire and windstorms that could possibly be invented, and recommended all Granges of Kansas to faithfully stand by this company and help sustain it in every way. The reports showed that the average cost of carrying each \$1,000 insurance for five years is about \$10, but that during the last nine years only \$6 on the \$1,000 had been charged and paid in in premiums.

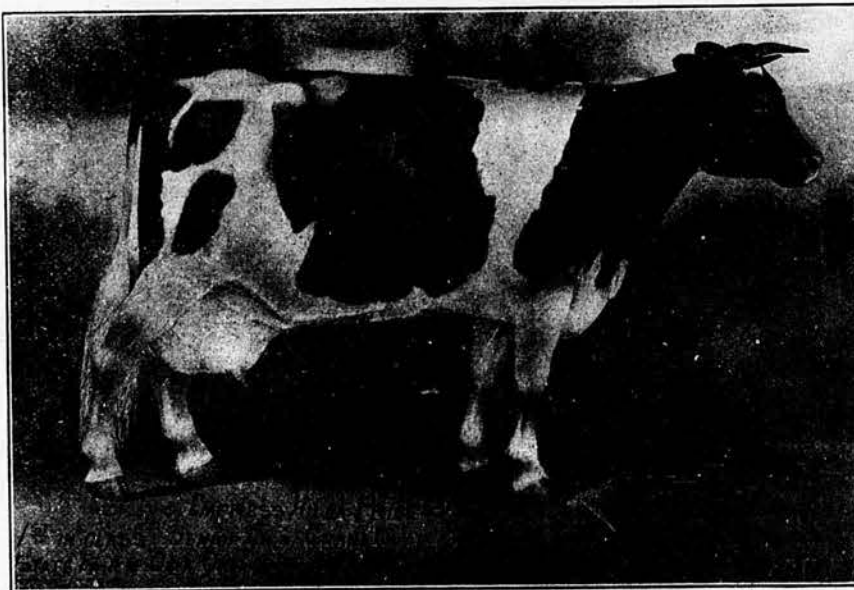
The committee reported as its opinion that the question of the relationship now existing between the insurance company and the Kansas State Grange is the most serious and vital of all questions relating to the good of the order.

The report of the committee on needed legislation was probably the most important matter brought to the attention of the convention. The most important recommendations of the committee were: 1. That the hunters' license law be amended so that no license should be issued to any person under 15 years of age. 2. That there be no open season for the killing of quail for at least five years. 3. The establishment of the office of State Fire Marshall or in lieu thereof to have the duties naturally devolving upon such an officer be required through the office and under the direction of the State Superintendent of Insurance. 4. The question of the office of State Engineer with headquarters at the State Agricultural College, the duties of such office to be prescribed by law. 5. That a sufficient appropriation be made by the State Legislature for the collection and publication under the direction of the Kansas State Agricultural College of farmers' institute papers and kindred data in an Institute Annual for free distribution to those applying for same. 6. That the elements of agricultural manual training, and domestic science be taught in all consolidated rural schools. 7. That the Board of Railroad Commissioners be given like authority for the control of all statewide utilities, especially pipe lines, long distance telephones and telegraph companies as said board now possesses for the control of railroad and other common carriers. 8. The establishment of a general parcels post. 9. The establishment of a rural parcels post. 10. The election of United State Senators by direct vote of the people. 11. Liberal appropriation by our National Con-



A. P. Reardon of McLouth, Kan., Lecturer Kansas State Grange.

farmer hauls all of his produce to market makes the good roads question of paramount importance to him. A comparison was made of our present day efforts at road making with



The Champion Holstein Cow at Oklahoma State Fair. Herewith is given a picture of Empress Hilda 63141, who stood first in class, senior champion and grand champion at the Oklahoma State Fair. By error in our report of that fair this award was credited to another call. We take pleasure, therefore, in giving a picture of this remarkable animal, which is only one of the good ones that may now be found on the farm of H. N. Holdeman, Mead, Kan.

gress for the construction of permanent roads.

A resolution was passed condemning the practice of the government of issuing free seeds to the people of the United States, as a useless waste of the resources of the government and that the money used for this purpose should be used for the installing of an experimental farm where seeds true to name and of benefit to farmers and truck growers could be produced and sold at a reasonable profit so that our agricultural class might get what they buy as fresh true seeds.

Worthy Master Black advises the necessity and advisibility of securing the cooperation of all newspapers in bringing the workings of the Grange before the general public. It was shown that during the past year twelve new Granges had been organized in Kansas with a membership of 847.

The meeting was closed after the election of A. B. Lovett of Pawnee county on the executive committee to succeed E. W. Westgate and the selection of Clathe as the next meeting place.

Enid, Oklahoma, Live Stock and Poultry Exhibit

The Second Annual Fine Stock and Poultry Show held at Enid, Oklahoma last week was a decided success. Fair weather prevailed and the attendance greater my many thousands than the preceding year. The live stock pavillion, one of the largest of its kind in America was taxed to its capacity with both fine stock and spectators. Excellent service to and from the pavillion was given by the running of Shuttle trains every fifteen minutes. In some ways there is no show in America like it or the equal of it. All exhibitors were provided with free stalls. No entry fee and free admittance. The parades given each day were grand affairs, and many visitors who have been attending like shows stated that they had never seen finer stock. In order that the reader may realize the magnitude of this great show we will give a few figures as to the actual number of show animals collected together in the magnificent concrete pavillion. Eight hundred and thirty-four swine consisting of 451 Duroc Jerseys and 383 Poland Chinas. Four hundred and sixty-seven cattle. The Shorthorns lead in number with 322 head Herefords 64 head, Aberdeen-Angus 55, Galloways 26 head. In the Horse Department we counted 408 as fine a collection as ever stood in any show ring. The favorite horse, the Percheron was represented by 243 head, the balance standard and their breeds. Shetland Ponies, Jacks and Mules were well represented. By consulting the list of winnings given below you will find that in the Shorthorn and Draft Horse classes that competition was very strong. Already preparations are under way to make the show of 1910 even greater and at this time it is expected that the pavillion will be complete with every modern convenience. The Poultry exhibit held in connection with this show under the auspices of the Oklahoma branch of the American Poultry Association and Oklahoma State Poultry Association was the largest and best ever held in the south-west. More than 5000 birds of all the well known breeds were present. This department was thronged with visitors almost every day of the show. To Mr. F. S. Kirk, the manager and organizer must be given credit for the success of this magnificent enterprise. Mr. Kirk being himself a breeder of fine stock for many years has familiarized himself with each and every breed, and has a wide acquaintance with breeders of fine show stock over the entire United States. The KANSAS FARMER in behalf of the thousands of visitors who attended this great show wishes to thank the citizens of Enid for their excellent accommodations and entertainments. Below you will find a list of the wards in different classes:

SHORTHORN AWARDS.

Judges, J. F. Stodder, Burden, Kan.; R. L. Harriman, Princeton, Mo.
 Exhibitors: L. E. Wooderson, Caldwell, Kan.; L. A. Rockwood, Oklahoma City; E. M. Hall, Carthage, Mo.; C. S. Nevius, Chiles, Kan.; Taggart Bros., Wankonia, Okla.; M. H. Lyons, El Reno, Okla.; Carpenter & Ross, Mansfield, Ohio; G. H. White, Emerson, Ia.; Allen Cash, El Reno, Okla.; W. G. Moore, Oklahoma City.
 Aged bull: 5 shown; 1st to Carpenter & Ross on Shenston Albina; 2nd, Lyons on Pride of Riverdale; 3rd, White on Royal Kintore; 4th, Cash on Prince Abbott.
 Bull 2 Years and Under 3: 5 shown; 1st to Nevius on Searchlight; 2nd to Lyons on Young Monarch; 3d to Carpenter & Ross on Barrister 4th to White on Froud Lad.
 Senior Yearling Bull: 5 shown; 1st to Carpenter & Ross on The Captain; 2nd to Hall on Hallwood Stamp; 3rd to Nevius on Prince Violet.
 Junior Yearling Bull: 4 shown; 1st to Wooderson; 2nd and 3rd to Moore.
 Senior Bull Calf: 8 shown; 1st to White on Proud Goods; 3rd to Carpenter & Ross on Grolins Dale; 3rd to Nevius on Golden Prince.
 Junior Bull calf: 16 shown; 1st to Nevius on Laerova Prince; 2nd to arpentier & Ross

on oRyal Dale! 3rd to White on Hampton King.
 Aged Cow: 12 shown; 1st to Rockwood on Sweet Duchess of Gloster; 2nd to Carpenter & Ross on Poppy; 3rd to Lyons on Delightful.
 Cow 2 Years and Under 3: 10 shown; 1st to Carpenter & Ross on Lancaster Bud; 2nd to Hall; 3rd to Nevius.
 Senior Yearling Heifer: 9 shown; 1st to Carpenter & Ross on Dale's Gift; 2nd to Nevius on Gypsy Queen; 3rd to Carpenter & Ross on Maxwellton Mina.
 Junior Yearling Heifer: 14 shown; 1st to Carpenter & Ross on Maxwellton Dorothy; 2nd to Nevius on Princess Lenora; 3rd to Carpenter & Ross on Maxwellton Gloster.
 Senior Heifer Calf: 20 shown, 1st to Carpenter & Ross on Dale's Gift, 2nd to Hall on Hallwood Rose 3rd, 3rd to White on Charming Beauty.
 Junior Heifer Calf: 15 shown; 1st to Hall on Hallwood Countess 3rd, 2nd to Carpenter & Ross on Dale's Jealousy, 3rd to Nevius on Princess Victoria.
 Aged Heifer: 5 shown; 1st to Carpenter & Ross on herd headed by Shemston Albina, 2nd to Nevius on herd headed by Searchlight, 3rd to Carpenter & Ross herd headed by Barrister.
 Senior champion bull, Shenston Albina; junior champion bull, the Captain; grand champion bull, Shenston Albina; senior champion cow, Lancaster Bud; junior champion cow, Dale's Gift; grand champion cow, Dale's Gift.

HEREFORD AWARDS.

Judge—L. R. Brady, Manhattan, Kan.
 Exhibitors—C. A. Stannard, Emporia, Kan.; W. N. Shellenberger, Oklahoma City; T. E. Smith, Norman, Okla.; J. B. Thomas, Pond Creek, Okla.
 Aged Bull: 1st to Stannard on Expectation.
 Bull 2 and under 3 years: 1st to Stannard on Beau Dancaester.
 Senior Bull: 1st to Stannard on Beau Mystic.
 Junior Bull: 1st to Stannard on DeBonair 2nd.
 Junior Bull Calf: 1st to Smith on Sunrise.
 Junior Bull Calf: 1st to Stannard on Beau Mystic 39th; 2nd to Shellenberger; 3rd to Thomas.
 Aged Cow: 1st to Stannard on Adrianna 2nd.
 Cow 2 and under 3 years: 1st to Stannard on Capitol 11th.
 Senior Heifer: 1st to Stannard on Daisy Adriana 4th.
 Senior Heifer Calf: 1st to Stannard on Mary M.
 Junior Heifer Calf: 1st to Stannard on Miss Betty; 2nd; Stannard; 3rd, Smith.
 Aged Heifer: 1st to Stannard.
 Young Heifer: 1st to Stannard.
 Calf Heifer: 1st to Stannard.
 Get of sire: 1st to Stannard.
 Produce of Cow: 1st to Stannard.
 Senior Champion Bull: Stannard on Expectation.
 Junior Champion Bull: Stannard on Beau Mystic 11th.
 Grand Champion Bull: Expectation.
 Senior Champion Cow: Stannard on Capitol 11th.
 Junior Champion Cow: Stannard on Adrianna 4th.
 Grand Champion Cow: Adrianna 4th.
 The special premiums offered by the American Hereford Breeders' Association in every class was won by C. A. Stannard of Emporia, Kan.

ABERDEEN ANGUS AWARDS.

Judge—P. M. Culver, Edgerton, Mo.
 Exhibitors—Parker, Parrish & Co., Hudson, Kan.; C. E. Sutton, Lawrence, Kan.; E. E. Beauford, Hayward, Okla.
 Aged Bull: 1st to Parker Parrish & Co. on Jilts Hale Ted, 2nd to Sutton on Eglamour of Quindale.
 Bull 2 Years and Under 3: 1st to Parker Parrish & Co., on Violeta Best Blood.
 Bull 1 Year and Under 2: 1st to Sutton on Rutger Heathson 3rd, 2nd, to Parker Parrish & Co. on C. Hale Ted.
 Senior Bull Calf: 1st to Sutton on Wa-



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Buy direct from the biggest spreader factory in the world—my price has made it. No such price as I make on this high-grade spreader has ever been made before in all manure-spreader history. Here's the secret and reason: I make you a price on one based on a 30,000 quantity, and pay the freight right to your station. You only pay for actual material, labor and one small profit, based on this enormous quantity.

"OK" Galloway No. 5 Complete Spreader

—BY FARMERS OF AMERICA

Get my Clincher Proposition for 1910 with proof—lowest price ever made on a first-class spreader. No. 5, complete with steel trucks, 70-bu. size; or Galloway Famous Wagon-Box, 4 sizes, from 50 to 80-bu.—with my agreement to pay you back your money after you try it 12 months if it's not a paying investment. How's that for a proposition? If I did not have the best spreader, I would not dare make such an offer. 40,000 farmers have stamped their O. K.

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Wm. Galloway Company of America, 389 Galloway Station, Waterloo, Iowa



We defy all Competition on the Quality of this Machine—Our Proof is the O. K. of 40,000 Farmers

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No. 5 GALLOWAY Complete With Steel Trucks

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Strong Wagon Cars—Can Be Used For Other Purposes

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This new light is clean and takes care of itself—no more work for the women.

LAKE'S SYSTEM OF GAS LIGHTING

embodies features no other system ever contained—it is entirely automatic, positive and sure—you don't have to do a thing but strike a match to flood your whole place with a brilliant, beautiful, penetrating light. The German-American Bank of St. Joseph, Missouri, will tell you that we are responsible and will do everything that we promise. Sit down right now and fill out the coupon for our great offer—we will send it FREE. Write today. Address

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 My P. O.....
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 L. B. Lake Mfg. Co.
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 Please send particulars about your 10 Year Free Light Offer.

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Remember we want your turkeys. We are going to return you not less than 20c for live and 25c for dressed stock. If weather is warm ship live; if cold, dressed. Chickens, ducks and especially fat geese will bring a premium on account of the exceptionally high prices turkeys will sell for. Remember, we handle everything in the produce line. We also allow drafts for 3/4 valuation on each shipment. All returns sent out same day shipment received.
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 813 North 3rd St.,
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Forty pages in colors

Illustration here shows the regular runner, but stub runner or disc openers may be had on special order. In fact, the Deere No. 9 is strictly up to date in all real improvements.

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the most highly perfected machine on the market, adds to its value. Increased accuracy secured by the famous **Deere edge-selection drop**, means anywhere from ten to fifteen bushels per acre over the old style of machine. Repeated tests have shown the above increase in favor of really accurate planting. We have plates for all kinds of corn and other seeds. Instantly changed from hill to drill drop without changing plates.

Fertilizer attachment that distributes either in hill or drill.

Deere No. 9 Edge-Drop Planter
Highest Accuracy in Drop

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Deere & Mansur Co.
Moline, Illinois.

Karusa Heathuson, 2nd to Parker Parrish & Co. on Queens Japan It.
 Junior Bull Calf: 1st to Sutton on Wakarusa Violet, 2nd to Blandford on Jacin of Grassland.
 Aged Cow: 1st to Parker Parrish on Sunflower Queen, 2nd to same on Sunflower Tip Top Lady.
 Cow 2 Years and Under 3: 1st to Sutton on Rutger Mina 5th, 2nd to Parker Parrish on Sunflower Jilt 4th.
 Senior Yearling Cow: 1st to Sutton on Rutger Dame 7th, 2nd to Parker Parrish on Sunflower Kitty.
 Senior Heifer Calf: 1st to Sutton Wakarusa Lina, 2nd to Parker Parrish.
 Junior Heifer Calf: 1st to Parker Parrish, 2nd to Sutton.
 Aged Heifer: 1st to Sutton.
 Calf Herd: 1st to Sutton.
 Grand Champion Bull: 1st to Parker Parrish in Violets Best Blood.
 Grand Champion Cow: 1st to Parker Parrish on Sunflower Queen.

GALLOWAYS.
 This breed made a very good showing. Two herds were represented: S. M. Croft & Sons of Bluff City, Kan., and W. L. Hutchinson of Anthony, Kan. The Croft herd being very strong in quality carried almost every first premium. The judging was done by Mr. Parrish of the Parker Parrish & Co. breeder of Aberdeen Angus, Hudson, Kan.

DRAFT HORSES.
 Judges—Prof. John A. Craig, Stillwater, Okla., Col. John D. Snyder, Winfield, Kan., R. L. Brady, Manhattan, Kan.
 Exhibitors—W. G. Moore, Oklahoma City, Okla.; B. S. Harper, La Rose, Ill.; A. D. Oulther, Homestead, Okla.; R. L. Shultz, Oklahoma City, Okla.; W. B. Avery, Waukomis, Okla.; Walker Bros., Oklahoma City, Okla.; W. A. Sayre, Morrison, Okla.; Finch Bros., Joliet, Ill.; C. W. Lamar, Salina, Kan.; W. S. Boles, Enid, Okla.; D. E. Bruce, Custer City, Okla.; D. W. Thomas, Canton, Ill.; J. S. Brooks, Enid, Okla.; A. J. Henthorn, Oklahoma City, Okla.; R. A. Pontow, Guyman, Okla.; Frank Bain, Osceola, Iowa; Oklahoma Farm & Stock Co., Foraker, Okla.; The Holland Stock Farm, Springfield, Mo.; F. W. Hipple, Lamont, Okla.; Frank Peavy, Enid, Okla.; D. J. Lamunyon & Son, Enid, Okla.; C. D. Hart, Hennessey, Okla.; S. S. Olds, Deer Creek, Okla.; J. W. Wright, Enid, Okla.; Joe Stolebarger, Sharon, Kan.; Taggart Bros., Waukomis, Okla.; J. H. Jackson, Enid, Okla.; C. N. Hare, Enid, Okla.; John Norris, Enid, Okla.; W. C. Baum, Kaw, Okla.

Stallion 4 Years Old or Over: 1st to Harper on Argente, 2nd to Finch Bros. on Pasture, 3rd to Bruce on Medor, 4th to Henthorn on Coco, 5th to Finch Bros. on Judge Parker.
 Stallion 3 Years Old and Under 4: 1st to the Holland Stock Farm on Gabare, 2nd to Walker Bros. on Pride, 3rd to Walker Bros. on Garna, 4th to Harper on Moulton Irby.
 Stallion 2 Years and Under 3: 1st to Holland Stock Farm on Hectolite, 2nd to Holland Stock Farm on Hector, 3rd to Thomas & Co. on Billy O, 4th to Finch Bros. on Stephen, 5th to Stolebarger on Beaumont.
 Stallion 1 Year and Under 2: 1st to Taggart Bros. on Gen. Gore, 2nd to Wright on Enfield Rightaway, 3rd to Finch Bros. on Steelyard.
 Stallion Under 1 Year Old: 1st to Hare on Jumbo, 2nd to Oulther on Vanquisher, 3rd to Jackson on Casinor.

Aged Mare, 18 Shown: 1st to Holland Farm on Marcellene, 2nd to Finch Bros. on Odette, 3rd to Morris on Bonnel, 4th to Boles on Ila.
 Mare 3 Years and Under 4: 1st to Wright on Enfield Princess, 2nd to Holland Stock Farm on Geometric, 3rd to Jackson on Marcia.
 Mare 2 Years and Under 3: 1st to Sayre on Matilda, 2nd to Holland Stock Farm on Hine, 3rd to Boles on Estelle.
 Mare 1 Year and Under 2: 1st to Jackson on Naomi, 2nd to Finch Bros. on Country Girl, 3rd to Taggart Bros. on Babe.
 Mare Under 1 Year: 1st to Baun on Hyratic, 2nd to Jackson on Dolores, 3rd to Taggart Bros. on Fairy.
 Four Animals (any age) Get of One Sire: 1st to Jackson, 2nd to Taggart Bros., 3rd to Sayre.
 Four Animals (any age) Produce of Same Dam: 1st to Thomas & Co., 2nd to Sayre, 3rd to Taggart Bros.
 Best Stallion and Four Mares: 1st to Holland Stock Farm, 2nd to Finch Bros., 3rd to Thomas & Co.
 Best Display by One Exhibitor: 1st to Holland Stock Farm, 2nd to Finch Bros., 3rd to Thomas & Co.

DUROC JERSEY AWARDS.
 Judge—L. R. Brady, Manhattan, Kan.
 Exhibitors—S. W. Alfred & Son, Sharon, Kan.; D. M. Richardson, Gotele, Okla.; W. R. Crow, Hutchinson, Kan.; C. T. McKeever, Hennessey, Okla.; H. E. Fisher, Danville, Kan.; Poland & Gayer, Ardmore, Okla.; Archie White, El Reno, Okla.; J. M. Young, Fall River, Kan.; E. E. Blandford, Hayward, Okla.; Frank P. Sylvester, Hennessey, Okla.; Bert Rork, Lahoma, Okla.
 Aged Boar: 1st to Richardson on M. G's Kant-Be-Beat, 2nd to Crow, 3rd to McKeever.
 Senior Boar: 1st to Alfred & Son on Top Commodore, 2nd to Crow.
 Junior Boar: 1st to McKeever on Top Notcher Boy 2d, 2nd to Crow, 3rd to McKeever.
 Senior Boar Pig: 1st to Fisher on Red Colonel, 2nd Poland & Gayer, 3rd White & Herbert.
 Junior Boar Pig: 1st to McKeever on Model Chief, 2nd to McKeever, 3rd to Crow.
 Aged Sow: 1st to Alfred & Son on Dewdrop Maid, 2nd to McKeever, 3rd to Crow.
 Senior Sow: 1st to Rork on Pride of the Farm, 2nd to Rork, 3rd to Crow.
 Junior Sow: 1st to Alfred on Ohio Boy's Gem, 2nd to McKeever, 3rd to Crow.
 Sow 6 Months and Under 12: 1st to White and Herbert on Grace H.
 Sow Under 6 Months: 1st to McKeever on My Pride, 2nd to Alfred, 3rd to McKeever.
 Aged Heifer: 1st to Alfred & Son, 2nd and 3rd to McKeever.
 Aged Heifer Bred by Exhibitor: 1st to McKeever 2nd to Fisher.
 Young Heifer: 1st to McKeever, 2nd to Alfred & Son, 3rd to White & Herbert.
 Young Heifer Bred by Exhibitor: 1st to McKeever, 2nd to Alfred & Son, 3rd to White & Herbert.
 Produce of Sow: 1st to McKeever, 2nd to Herbert & White, 3rd to McKeever.
 Get of Boar: 1st to McKeever, 2nd to Alfred, 3rd to White & Herbert.
 Senior Champion Boar: 1st to Alfred & Son on Top Commodore.
 Junior Champion Boar: 1st to McKeever on High King.
 Grand Champion Boar: 1st to Alfred & Son on Top Commodore.
 Senior Champion Sow: 1st to Alfred & Son on Dewdrop Maid.
 Junior Champion Sow: 1st to McKeever on My Pride.
 Grand Champion Sow: 1st to Alfred & Son on Dewdrop Maid.

POLAND CHINA AWARDS.
 Judges—Col. L. R. Brady, Manhattan, Kan.; S. W. Alfred, Sharon, Kan.; Frank Sylvester, Hennessey, Okla.
 Exhibitors: J. R. Roberts, Renfrow, Okla.; Robert Rounds, Hennessey, Okla.; T. C. Bossart, Kremlin, Okla.; E. H. Davenport, Denton, Texas; S. Y. Burke, Boliver, Mo.; Herbert & Barnes, Mulhall, Okla.; L. L. Lamunyon, Enid, Okla.; C. H. McAllister, Carmen, Okla.; S. W. Hill, Lahoma, Okla.; Stryker Bros., Fredonia, Kan.; M. A. Watkins, Enid, Okla.; E. A. Herbert, Mulhall, Okla.; G. W. Roberts, Larned, Kan.; A. B. Campbell, Geary, Okla.; John Morris, Enid, Okla.; J. D. Spangler, Sharon, Kan.
 Aged Boar: 1st to J. R. Roberts on R. C's Chief 2d, 2nd to Rounds, 3rd to Bossart.
 Senior Boar: 1st to Herbert & Barnes on Anchor 2d, 2nd to Lamunyon.
 Junior Boar: 1st to McAllister on Carmen Special, 2nd to Hill, 3rd to Stryker Bros.
 Senior Boar Pig: 1st to Stryker Bros., on 101, 2nd to Watkins, 3rd to G. W. Roberts.
 Junior Boar Pig: 1st to Morris on Third Meddler, 2nd to Stryker Bros., 3rd to Spangler.
 Aged Sow: 1st to Stryker Bros., on Courtly, 2nd to Burks, 3rd to J. R. Roberts.
 Senior Sow: 1st to McAllister on Galety, 2nd to Herbert, 3rd to Burke.
 Junior Sow: 1st to McAllister on Lady

Winn, 2nd to McAllister, 3rd to Stryker Bros.
 Sow 6 Months and Under 12: 1st to G. W. Roberts on Black Belle, 2nd and 3rd to G. W. Roberts.
 Sow Under 6 Months: 1st to Burks on Model Perfection, 2nd to Herbert, 3rd to Campbell.
 Aged Heifer: 1st to McAllister, 2nd to Burks, 3rd to J. R. Roberts.
 Aged Heifer Bred by Exhibitor: 1st to Burks, 2nd to Stryker Bros., 3rd to J. R. Roberts.
 Young Heifer: 1st to G. W. Roberts, 2nd to Stryker Bros., 3rd to Burks.
 Young Heifer Bred by Exhibitor: 1st to Stryker Bros., 2nd to Hill, 3rd to Burks.
 Produce of Sow: 1st to Burks, 2nd to Rounds, 3rd to Stryker Bros.
 Get of Boar: 1st to Stryker Bros., 2nd to J. R. Roberts, 3rd to Hill.
 Senior Champion Boar: Herbert on Anchor 2d.
 Junior Champion Boar: Stryker Bros. on 101.
 Grand Champion Boar: Stryker Bros. on 101.
 Senior Champion Sow: McAllister on Lady Winn.
 Junior Champion Sow: G. W. Roberts on Black Belle.
 Grand Champion Sow: G. W. Roberts on Black Belle.

The National Good Roads Association Comes to Kansas

On Tuesday and Wednesday, Dec. 14-15, the National Good Roads Association held its first session west of the Missouri river. This session was held in Topeka and proved to be a success in every way. About one thousand delegates and visitors were in attendance and the time was occupied most profitably by the discussion of questions of importance to those who have the abolition of the mud-tax at heart.

Governor Stubbs had sent out a large number of appointments to delegates over the state, while the mayor of Topeka and the county commissioners of Shawnee county had supplemented this good work by numerous invitations to other mayors and county commissioners. The published program was as follows, although it was not strictly adhered to in the progress of the meeting:

TUESDAY, DECEMBER 14.
 10 a. m. Address of Welcome, Governor Stubbs.
 10.30 a. m. Response, President Jackson, National Good Roads Association.
 11 a. m. Address on the Part of the City, George Badders, secretary of Commercial Club.
 11.30 a. m. Address, "Alaska Roads and Defraying Expenses of Building," Andrew Zingg, Fairbanks, Alaska.
 2 p. m. Address, State Engineer W. S. Gearheart.
 2.30 p. m. Address, Chancellor Strong, of Kansas University.
 3 p. m. Address, R. J. Clancey, Tax Commissioner, Union Pacific Railroad.
 3.30 p. m. Address, W. F. Dickey.
 4 p. m. Address, "Echoes from Seattle," Mrs. Chas. F. Spencer.

WEDNESDAY, DECEMBER 15.
 10 a. m. Address, President Waters, State Agricultural College, Manhattan, Kan.
 10.30 a. m. Address, C. M. Mills, superintendent of rural routes.
 11 a. m. Address, Prof. W. C. Hoad, University of Kansas.
 11.30 a. m. Address, Curtis Hill, Columbia, Mo., State Highway Engineer.
 2 p. m. Address, Governor Shellenberger of Nebraska.
 2.30 p. m. Address, John Craft, president Alabama Good Roads Association.
 3 p. m. Paper on Road Drainage, W. R. Goit, president Oklahoma Good Roads Association.
 3.30 p. m. Address, "Discovery of Gypsum Clay in Sand Hills," G. W. Watson.
 4 p. m. Miscellaneous discussion.

Space will not permit of very lengthy quotations from any of these speeches, but there were some that were especially impressive, because of the new ideas advanced or the new way in which old ideas were presented. President Waters of the Agricultural College gave a most valuable address in which he said: "One of the greatest wastes in this country is in connection with transportation over country roads, and the question of transportation is one of the most serious that confronts the nation. "But most important is the sociological effect of good roads. You lower

the standard of living of those who live in the open country, and you are striking at the very vital spot of our nation, for the city is not self-sustaining."

"If you encourage an exodus from the country of the best boys and girls you are lowering the standard of the country life.

"The only way you can keep them contented is to keep them from being isolated three months in the year. Three great factors in ideal country life are the church, the school and good country roads. The children of the country should have the same educational advantages that the boys and girls of the city enjoy.

"During the past 25 years the products of the country have been materially increased, but only on account of an increase in acreage, and not in increase per acre. To increase the yield per acre there must be greater intelligence exercised on the part of the farmers.

"Denmark, an old country, has 60 per cent of her people on the farm. We started with 95 per cent on our farms but it has dwindled down to less than 40 per cent. The improvement in machinery in the next 25 years will be insignificant as compared with that of the past 25 years. We must educate our boys and girls to farm scientifically."

George W. Cooley, Minnesota state highway engineer, gave an address which was appreciated by the road experts:

"The principal road system now before the people is the stone or macadam. This system has been in vogue for centuries. We can't afford now to cover this country with the roads we need.

"The system of tar or asphalt macadam roads is gaining in popularity.

"The two principles in road construction are construction and drainage.

"If you can't get the water away from the road, get the road away from the water.

"We have to depend for 25 to 50 years largely on good earth roads and the question that we have to consider is how to build them with the least expense.

"The secret of the magnificent roads in France and Germany lies not in the construction but in the maintenance. A stitch in time saves nine; and the people in those countries realize it."

Prof. W. C. Hoad of the engineering department of the State University spoke in part as follows:

"This country is a big country and this movement for good roads is a good movement. This movement is diversified. In Massachusetts and Connecticut they have needed and have secured for their country thoroughfares hard rock roads.

"The need is just coming to us, and it is one of the next steps in our progress.

"In the construction of hard roads it isn't worth our while to do all our experimenting before we learn what are the best methods, as we can profit by the experience of others. The same can be said of oil roads. We can study the ground that has been gone over in California.

"Now there are certain general

principles in connection with building hard roads, for example a good solid roadbed is a necessity. Another general principle is that we must have some durable material for the road surface. Beyond that there are hardly any principles that can be generally applied—it becomes a local matter.

"The requirement for rigidity or solidity necessitates good subdrainage. It is the result we want. Keeping the water out of the road will help preserve its solidity.

"We do not have the material for road building that they have in New Jersey, New York and other states, but we do have good lime stones, and lime stones make good roads.

"They cost less to construct but do not wear quite as long. We have been running a series of road tests in connection with our laboratory at the States university, and find in many parts of the state are excellent road building materials. It often comes to the point or which of two or three different materials should be used.

"The matter of thickness of the road is largely a local matter. In the east they have six inch roads. Here eight inches is considered about the proper depth for our lime stone.

"The construction of good roads should be along the lines of business. That is, the thoroughfares that are used most are the ones which will justify an immediate expenditure.

"If it can be shown that road construction will more than pay for its cost through a saving to the users, then the building of them is justified.

"It seems to me that our roads development should be done by local opinion about it, although I know that money and service. This is my own it will not meet the approval of all road enthusiasts.

"The hard thing is to make a start in good road building, but when we once start it will not be so difficult."

W. R. Goit, President of the Oklahoma Good Roads Association, is one of the most thorough experts on drainage in the west. He has addressed the Kansas State Good Roads Association, and gave evidence of his superior knowledge on this phase of the subject. He was listened to attentively during his address before the National Association. We quote from his paper as follows:

"To undertake to locate drain and construct a road, without plans would subject one to just criticism. Skilled location of a road accurately determines route, drainage and grades. The use of any material for culverts, bridges or surfacing of a road that will not resist the elements is reprehensible indeed; and should not be countenanced, if permanent construction is intended or desired.

"Where the monies are derived from the voting of bonds posterity has every right to expect that the road will endure until the bonds mature. Education is the one great factor that makes the engineer a necessity in road location and construction and his education qualifies him to obtain results, whereas one untrained and uneducated usually leaves us "In the Mud." A mixture of soil and water produces mud. Remove and prevent the water from obtaining access to the soils and evaporation will leave only dry soil remaining.

"Drainage is a simple remedy for the treatment of a mudhole which can be applied by any ordinary mortal. There do be mortals who venture where engineers fear to tread' who do attempt to run water up hill, an undertaking never accomplished by the wisest road overseer who built a mud hole.

Drainage follows location and should receive careful consideration at the hands of the engineer. The material necessary for construction of embankment should be borrowed in such manner as to leave perfect drainage in both ditches and permit free running off the storm water, as perfect drainage and proper diverting of storm waters are the basic principles in the construction and maintenance of roads.

"Avoid concentration of storm water and do not attempt to carry it in long distances in the upper ditch to save the cost of an additional culvert. Dispose of it at the first opportunity and when an embankment across a waterway obstructs the free runoff of the storm water provide a culvert of adequate size to accommodate the storm water from each drainage area

centering at each identical waterway. "Keep the sub-base drained and dry and it will reduce the cost of maintenance to a minimum. The only enemy of good roads that must be continually combated is water. Unmolested it will undermine and wash away the most expensive and carefully constructed roadway. Build from the sub-base up. "Storm water conducted long distances in a ditch on the upper side of a roadway is constantly augmented by run-off from intersecting water courses which it ultimately concentrates and renders difficult to handle, whereas if disposed of at frequent intervals when the volume is limited by small permanent culverts constructed of vitrified

culvert pipe, where sizes will permit or stone masonry or cement concrete when larger culverts are required, the concentration of the storm water does not result and its disposal is easily and economically accomplished. We refer to vitrified culvert pipe particularly, for the reason, that an established gradient can always be maintained and a fixed velocity secured whereby the capacity can always be accurately determined.

"In the construction of culverts vitrified pipe will prove to be the most convenient, durable and economical whenever it will accommodate the volume of storm water required to be handled. Purged by the fires of the kilns of all that is volatile and fused together by the intense heat until it is a homogeneous mass as dense as glass, it has all the strength of steel, resisting the action of the elements and enduring for all time. Fall is the factor that determines the velocity of the water and the carrying capacity of the flow-line. The accelerated velocity on a continuous gradient being due to gravity. Conserve it and utilize it and you will find it a valuable asset which will decrease the cost of culverts. Increasing the cross section of a culvert may not necessarily increase the capacity of the culvert provided less fall obtains.

"The capacity of a 24 inch pipe on a fall of one inch to the 100 feet has a carrying capacity of 2,396 gallons per minute. Increase the fall to 36 inches to the 100 feet, and it will have a carrying capacity of 14,466 gallons per minute, which is over six times the capacity it had on one inch of fall, therefore care should be taken to utilize all the available fall that the velocity may be secured to assist in handling the run-off. The area of a 24 inch pipe is 452 square inches, whereas the area of an 18 inch pipe is 254 square inches and the capacity of the two 18 inch pipes on any stated fall, is approximately the same as the capacity of one 24 inch pipe on the identical fall.

During the meeting of the National Good Roads Association, the Kansas Engineering Society was perfected. A number of highway engineers formed a tentative organization at Ft. Scott in October, during the Kansas Good Roads Association meeting, and this was perfected at Topeka. Originally it was only intended to be an association of highway engineers, but it was finally organized so as to include all engineers who are graduates of accredited schools or who have had five years' practice in their profession. The officers elected were as follows: Pres. V. R. Parkhurst, Topeka; V-Pres. Prof. W. C. Hoad, State University, Lawrence; Sec'y-Treas. Prof. W. S. Gearhart, State Agricultural College, Manhattan; Directors: E. L. McLain, Hutchinson, John P. Rogers, Topeka, J. H. Titus, Arkansas City, and Alva Smith, Emporia. The membership now numbers forty-four.

Credit for the success of this National meeting is due to H. W. McAfee, President of the Kansas Good Roads Association and Secretary of the National Good Roads Association. Mr. McAfee was assisted by members of the newly organized Topeka-Shawnee Good Roads Association. The writer has attended a number of meetings of the National body and feels safe in his assertion that the one just held at Topeka, was one of the most successful in every respect that has been held. Delegates were present from many other states and one from far off Alaska. These men impressed the visitor as men who had come here with a purpose and who will go home with the intention of accomplishing results in the work of redeeming our country from the curse of bad roads.

Hides and Fur Market.

Furnished by James C. Smith Hide company, 108 E. Third street, Topeka, Kan. Below prices are for week ending December 25, 1909. While they may not prevail for week following, they will give you a very close idea of prices which will prevail.

Furs.	
Raccoon, large prime.	\$1.75@2.00
Raccoon, medium prime.	1.35@1.65
Raccoon, small and No. 2.	.60@1.50
Skunk, black prime.	3.00@4.00
Skunk, short prime.	2.00@3.00
Skunk, narrow prime.	1.00@2.25
Skunk, broad and unprime.	.35@1.00
Mink, large dark No. 1.	5.00@6.00
Mink, medium No. 1.	2.75@4.25
Mink, small No. 1.	1.00@2.25
Mink, unprime.	.60@.85
Opossum, large cased No. 1.	.40@.65
Opossum, medium cased No. 1.	.10@.30
Opossum, small cased No. 1.	.15@.30
Muskkrat, winter.	.15@.30
Civet cat.	.25@.45



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DOROTHY'S CHRISTMAS

Written for *Kansas Farmer*
By FERN ALEXANDER

Illustrated by Albert T. Reid

"'Twas the eve before Christmas." A heavy coat of snow covered all out of doors, icicles clattered on the trees' branches, as a bleak, howling wind capered past; two or three bright stars were playing "hide and seek" among a few clouds which were rolling away forever. Snow birds stirred in a thicket of evergreens near by as if they had dreamed that Santa was coming and had awakened to see him. It happened to be only the wind, playing one of his many pranks in the trees. After this, he whistled loudly in his glee, for having so successfully aroused the little sleepers. Then he rushed to a great house, howling and whistling and rattling the window panes, and roaring down the chimney, trying to frighten little Dorothy, who, though twelve years old, seemed no larger to her father on whose knee she was sitting than she had been six years before, when her dear, good mother had closed her eyes tenderly away and he had taken her on his knee, and had wept and had resolved to be to her all that her mother could ever have been.

There sat Mr. Mark, in a great, easy leather cushioned rocker, with his little Dorothy perched upon his knee. They had been silent a long while, thinking tenderly of mama, when Dorothy said, "Papa, let's pretend to be Santa tonight and hitch Dot and Queen to the sleigh, and put some nice presents in, and then go out driving, just as I used to think Santa did."

"What put this into your head, you little dear?" returned he, embracing her.

"Oh, I just thought maybe mama is looking at us from Heaven and would be pleased to see us do something kind."

"What a little bunch of imagination! Bless your heart! It's Christmas, and if you wish to be Santa Claus, I'll help you. But what presents have you to give?"

"Oh good! Papa you always were so kind, specially since—mama died, but I can find something. Won't you go hitch up, while I get ready?" she asked, joyfully.

"Yes, if you'll help papa put on his coat and find his gloves and over-shoes and muffler—"

"Oh yes! I will," and she ran in dragging the big coat and exerting herself to the utmost, trying to hold it up for him to get into.

The clock was just striking seven and a multitude of stars were just peeping through the clouds as Dorothy and her papa glided swiftly away behind Dot and Queen, in their sleigh.

"Now, my little Doro, we've started, and where shall we go?" asked her father in furs up to his ears, and the wind was cold and he knew it, and he meant to keep away from it.

"I think I'd like to go to Nell's first," she replied.

"Ha, ha!" laughed he, "Nell's a rich little girl. She'll have all the presents she wants."

"Yes I know, but I'd like to see her anyway. I won't take any presents in—unless she needs them," she replied, for Nell was her most intimate school companion, and she loved her dearly.

"Will you go in too, or wait for me?" she asked as her father halted before Nell's front gate.

"I'll wait. See that you don't stay long. If you want any presents brought in, let me know," he kissed her and lifted her out.

"I'll be back in a minute," and she hastened up the steps and rang the bell. Through the glass panel in the door, she could see Nell's brothers and sisters standing around the piano, singing, while Nell played. But she answered the call immediately and admitted Dorothy.

"I'm so glad you've come, Doro. we were just wanting you," and Nell slipped her arm around Doro.

"I can't stay but a little," whispered Dorothy.

"Oh, why not?"

"Papa's waiting for me—. If you won't tell" she whispered to Nell—"I'm playing Santa Claus. Papa's my driver."

"Oh, how fine!" and Nell clapped her hands.

"What is it?" Do tell us your secret," interrupted one of Nell's brothers.



"I've seen you and know you are happy—I am too," Dorothy started to the door.

"Won't you stay, Dorothy?" asked Nell, holding her.

"No, not tonight."

"Then just peep into this room," and Nell ushered her playmate into their parlor. Dorothy was enchanted. She had never seen such a beautiful tree, all loaded with presents.

"Are all these presents for you?" she asked.

"Yes and—for you," answered Nell.

"Well its beautiful. I wish I could stay, but I cannot," and Dorothy started again.

"Hurrah for Doro, who's going to stay and help enjoy our feast" sang Harry, a particular friend of her's.

"I know you want me to stay, but I can't" she answered.

"I think you are mean," teased Harry, for he really wanted her to stay.

"I can't,—I can't possibly."

"Let's not save any presents for her, if she goes," said Tom.

"Well, I hate to loose the presents, but I can't stay," and she rushed to the door.

They tried to hold her back, but she managed to open it wide enough to slip through.

She ran down the path saying, "Good-bye, I'll see you later."

"And Good-bye, Doro, maybe someday you'll be my Christmas present," followed her. Dorothy laughed. She knew Harry's voice.

"No, never," she called back and laughed again.

She heard Harry and Nell laugh as her father tucked her in and they drove away.

"Why didn't you stay all night?" asked Mr. Mark.

"Really, I couldn't—I couldn't get away any sooner. Did you get cold, I told them you were waiting for me, but they wanted me to stay anyway," she replied.

"I want you to tell me what happened, but first—where do you want to go next? I don't think you have lost any presents yet."

"Let's drive out to the country.

Its so beautiful out there," replied Dorothy, as she listened to the frosty little creak the horses made as they trotted along, and as bits of snow flew into her face, just as if Harry were throwing balls at her.

"Did you have a good time at Nell's?" asked Mr. Mark, for he had overheard the last bit of their conversation and wished to know what preceded it.

"Well, the best was their big Christmas tree, lighted with candles and hundreds of presents. The thick rugs, big easy chairs, splendid walls and beautiful pictures, electric lights, and big open fireplace and old grand piano seemed just like home, papa. It did. It was as warm and nice and everybody's so kind. And they teased me to stay. But I'm Santa Claus tonight, papa, out in my sleigh. How'd you like to stop here, papa? I guess it's a farm house, for I see the straw stack and the barns and poultry houses."

"Yes, for we are just two miles out of town."

"Dear me! It doesn't seem so far. Wonder who lives here. Guess I'll go and ring the bell." Mr. Mark stopped and waited for Dorothy to climb out. Happily there was no cross dog at this house. She stole as quietly up the snowy path as possible. As she could not find a bell at the door, and did not think of knocking, she went quietly to a window and peeped in. The wall was plain but clean, with a few pictures, the floor was covered with a rag carpet, a boisterous fire roared in the stove. Dorothy could hear it even where she was—and everything was so clean and comfortable that she wished she might live there awhile. She saw father, mother and three little children sitting about the stove enjoying a pan of popcorn and apples. They were laughing and talking merrily. "Wisten now, pop's goin' to tell about an ole Quixmas," said a tiny boy, just as his father began, "We used to set our shoes in a row along the wall, instead of hanging up our stockings, or having trees. We never expected any presents for Christmas—only candy. And old St.

Nick would fill our shoes with that. I remember how we used to crawl up the stairs and into bed, early on Christmas eve, for fear old St. Nick would find us awake and pass us by, and the wind blew the snow between the cracks in the logs, and made it so cold. And then sometimes we'd hear the wolves growling" (here the little boys' eyes opened wider), "and sometimes we heard something howl that wasn't the wolves—it was the wind; and sometimes the Indians slipped around! But we always went to sleep on Christmas eve for we wanted our candy."

"Well, I'm glad we didn't live then," said a dimpling little girl.

"Me too!" said another.

"Won't ov, mama, tell why we have Quixmas?" ventured the tiny boy.

"Well, I'll begin" (for she loved to tell the story) "long time ago when some shepherds were watching their flocks at night, the heavens opened and an angel came before them. They were afraid, but the angel said, 'Fear not, for I bring good tidings of great joy, which shall be to all the people, for unto you is born this day in the city of David, a Savior, which is Christ the Lord.' And then suddenly there was a heavenly host about the angel, singing praises to God, saying, 'Glory to God in the highest, and on earth peace, good will toward men.' And the shepherds wished to see this Babe, the King of the Jews. A bright star rose before them and they followed. They came to a manger and there the star stood still and they found Him. They were much surprised that such a great Man should be born in such a lowly place—"

Dorothy wished to stay longer, but the bleak wind was chilling her through and besides she knew the story, and her father was impatient to go. She gave a wistful glance at the happy group inside and slipped out to the sleigh.

"Papa, they are so happy and contented. I don't want to bother them with any presents, for I'm sure they have all they wish."

Mr. Mark whistled to the horses and they were soon speeding swiftly away.

"I don't believe Santa Claus is going to give any of her presents away tonight," whispered her father.

"Yes, papa, I think I will. Let's drive to Bessie Blake's. You know, her father is dead and they are very poor, but she's so industrious and intelligent. She's in all of my classes at school and is the very smartest one. And I like her, she's so good, though some of the children laugh at her. And her mama's so kind. Papa, she's just like my mama was, only she looks older and works harder. Sometimes I'm afraid Bessie doesn't have enough to eat; but she never complains."

"Here we are. You can jump out to see if they're at home, and I'll tie the horses," said her papa, kindly, indeed he wished to get into a warm house for the wind had crept through his furs someway, and he was cold.

Dorothy waited for her papa and they walked in together. Peeping through the little glass panel of the door, they saw by the dim light Mrs. Blake holding Bessie's hand, and both were crying. "Somehow Christmas seems sad, dearest," Mrs. Blake was saying, "for papa died just five years ago tomorrow. Oh, it's so sad and lonely without him." Bessie broke out afresh and Mrs. Blake rose saying, "there's no need to cry though, for we've a home and we can work and be good and then maybe we'll be united someday." Bessie dried her eyes and put a few cobs in the fire.

Mr. Mark knocked. The startled Mrs. Blake demanded, "Who's there?" fiercely, and grabbed a pistol.

"Only I, Dorothy Mark, you know me, Bessie," called Dorothy.

The door was open in a minute and Mrs. Blake was begging pardon and Bessie was clinging to Dorothy.

"You dear Doro, I'm so glad you've come," said Bessie.

"Yes, I'm Santa tonight and I brought you a few presents," and Dorothy laughed merrily.

Mr. Mark went to the sleigh and brought in the whole bunch. There was a fur set which Dorothy had proudly worn two years' previous, two of her dresses which she thought would just fit Bessie, a shawl for Mrs.

Blake and fruit and candles and—well, there were four very happy people in the little shanty, yet neat home that eve. Mr. Mark beamed upon the sturvy Mrs. Blake and she smiled timidly back, in much the same quiet way that she answered "Yes" to a certain question Mr. Mark asked her a few years later, which made her and her daughter very happy ever afterward.

As it was late, Dorothy and her father soon took their leave. A "thousand thanks," innumerable "bless you's" and "a merry, merry Christmas followed them to the sleigh.

The moon was just rising and sent a stream of silver across the waste of snow. The stars were twinkling merrily.

"Get up, Dot, we're going home," and Mr. Mark whistled.

"Papa, I like to be Santa. Don't you?"

"Yes, dear."

"Don't you think Mrs. Blake and Bessie are nice, good people?"

"Yes, dear."

They drove swiftly on, and they, also, were very happy, though not happier than two others—and the wind whistled and the icicles clattered and the snow flew and the sleigh made a frosty little creak and the stars and moon seemed to say, "A merry, merry Christmas to all, and to all a good-night."

HOME CIRCLE



Christ's Day.

Throughout the Christian world this is the day of days of all the year, the symbolical anniversary of the birth of Jesus Christ, savior of mankind. But the spirit of the day has long since outgrown its letter and the world may celebrate this spirit without surrendering any of its theological beliefs. The day may be given over to good cheer and good fellowship, to kindness and charity, to fraternity and good deeds, without impairing the integrity of any individual creed. Indeed, the virtues of Jesus are those ascribed to all the great teachers in all ages, for they are the virtues of a glorified humanity, and in practicing them radical and ecclesiastical barriers are swept away. All the world becomes one, symbolizing the unity of all times and all races.

At this time we may lay aside dispute and worship "in spirit and in truth." The Christ message of "peace on earth, good will to men," speaks to every human soul, to all religions and to the men of no religion. The Christ character—the universal exemplar whose realization would make this earth a place of peace, and all men reconciled each to his fellow brother. The Christ life is the ideal and in trying to live it all nations that bow at other altars will meet on common ground.

Cappie's Christmas.

As the holidays drew near, fewer horses came to the stable. Sometimes I was quite alone there, and then Billy was my one comfort, for he seemed to know that he must stay with me.

I heard a great deal of talk about Christmas, but it meant little to me, for I had usually been at the farm during this season, and knew nothing about the doings of the family. But now I think it was a week before Christmas day, one morning when I was blinking in my stall, somebody ran up behind me, and I felt a face laid against mine, and a pair of arms thrown around my neck. It was so long since I had been petted that it was a welcome surprise, I assure you. And of course I knew it was Betty, before I had time to look at her. She had stolen away from her mother, and when she reached the stable, there was no one there but me, so she had greeted me in the old way, forgetting all fear, and remembering only that I was her own little pony. She played with me for some time, and she told me all about the things she was buying for Christmas, and then she promised to come again when nobody was looking.

I cannot tell you how her visit cheered me. Why! all the word seemed bright again, and Betty was the brightest and most beautiful thing in it. But she had to leave me, and just as she went out of the stall, I saw her stop and pick up one of my shoes, which had loosened and dropped from my foot. She held it high in the air, then turning to me, laughing all the while, she said:

"O you dear, precious thing! I know what I will do with this, I'll just send it to Uncle Toby for Christmas."

The next day, much to my surprise, she came back again, and holding something up before me, she danced all over the stall, saying as she did so:

"Don't you see, Cappie—can't you tell what this pretty golden thing is? Why, it's just your own little shoe, gilded and tied with a blue ribbon, on to that pretty white card. Mother has written a rhyme, and we are going to send them all to Uncle Toby. Listen and let me read what you are supposed to say on this card. And then she read

In the busy march of life
I lately lost a shoe;
And Santa Claus who found it
Now forwards it to you.
And I am sure you'll laugh, sir,
For while western ground I trod
I cannot now remember
That ever I was shod.
With this I do impart to you
And to the friends so dear,

My Christmas greetings fond and true
Good luck, I'm happy here!"

She gave me a quick hug, rumbled my forelock all over my eyes, and then saying it was most school time, she ran away. The men were out of sight, and I fell to thinking. Now what was that she had made me say to Uncle Toby? "Good luck, I'm happy here!" —From "Captain Jinks, Autobiography of a Shetland Pony," by Frances Hodges White.

How the Chimes Rang.

An old legend says that there was in a city in Germany an old church in whose belfry were the most beautiful chimes in the world. No man or woman living had ever heard them ring, but each one had heard his father or grandfather tell of their wonderful beauty.

There was a belief among the people that the chimes would ring on Christmas day if they brought their most precious gifts and laid them on the altar of the church. The king appointed the next Christmas for every man, woman and child in the city to bring his gift.

First came the king and laid his crown upon the altar. The people gazed in wonder and sat waiting expectantly; for surely no gift could be more precious than the king's crown. But the chimes did not ring. Then a soldier came and laid his sword upon the altar, but the chimes did not ring. A woman brought a beautiful dress, all of her own weaving and laid it by the soldier's sword, but there was no sound from the old belfry. A maiden brought flowers, planted and watered by her own hand, but still the chimes did not ring.

Now there was in a distant part of the city a little boy named Peter, who for weeks had been saving a few small coins for his gift. It had been very hard to save them. But at last he was on his way with these, his most precious gift, to lay on the altar. He had nearly reached the steps of the church when a white made him look down on the sidewalk. There in a doorway crouched a little dog with a broken leg. What should Peter do? It was getting late. If he waited to take the dog home and bind up his leg, the church would be closed and he would lose his little chance to make the beautiful chimes ring. But another white came from the dog. Peter took his hand from the pocket where the hard-earned money lay, picked up the dog in his arms and ran home as swiftly as he could. As he came to the door he called to his brother Hans, "Hans, quickly, take the money and run back to the church. Quickly, Hans! it may be closed and the chimes have not been rung."

Then he set to work binding up the dog's leg. His little brother ran to the church. The western sunlight was throwing long shadows down the aisles as the people sat waiting, discouraged, hoping against hope as one gate after another was laid upon the altar and still the chimes were silent.

Just as a few left their places to pass out, giving up hope, a tiny boy came panting, breathless, up the steps, down the long aisle, straight to the altar, where he laid a few small coins.

Suddenly from out the long silent belfry broke the most wonderful music—filling the church, the air, the city, with glorious harmony. People fell upon their knees in joy and thankfulness, men who had not prayed in years praised God, mothers held their little children more closely to their hearts. The whole city seemed caught up in heavenly melody and held close to the heart of God.

And from a window in a distant part of the city little Peter's face looked out, its great longing changed into great peace. His own small gift had made the chimes ring out at last. —Selected.

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165-167 BROADWAY, NEW YORK. 42 E. MADISON ST., CHICAGO.

A Buffalo Calf FREE

Ask your dealer for a Little Buffalo Calf made from the leather that's used in our shoes. Try to tear it with your fingers. Get a pair of Bentley & Olmsted Company's Buffalo Calf Shoes if you succeed. We'll pay for them. That's how much confidence we have in our leather. We get it from the hides of healthy young cattle, raised indoors and killed at just the right age and season.

B. & O. Buffalo Calf Shoes

Leather used in ordinary shoes is staked, or stretched. Ours isn't, for ours aren't ordinary shoes. Our Buffalo Calf tannage is a development of the recently perfected Elk Tannage process. It gives life, strength, pliability and softness to the leather. Soles, counters, insoles and slippers of our shoes are made from high-grade Homlock Tanned Texas steer hides.

Nothing so strong—nothing so comfortable as B. & O. Buffalo Calf Shoes.

If your dealer doesn't handle them, send us his name and we'll send you a Buffalo Calf Free and a pair of our best shoes if you tear it.

Bentley & Olmsted Co., Des Moines, Iowa

\$3.00, \$3.50 and \$4.00

FIELD NOTES

FIELD MEN.

O. W. Devine.....Topeka, Kan.
 Jesse R. Johnson.....Clay Center, Kan.
 J. W. Johnson.....Beloit, Kan.

Prof. R. J. Kinzer has been appointed official judge for Galloway cattle at the International Live Stock Exposition next year. This is an excellent selection.

H. T. Blake, of Orienta, Okla., a prominent breeder of Duroc Jerseys and Shorthorn cattle, was a persistent bidder for the good Shorthorns offered at the Enid sale. He secured several good toppy young bulls.

Ralph McKinley, Glen Elder, M. A. Smith, Cawker City, Frank P. Cook, Beloit, J. M. Rogers, Beloit, and others from Mitchell county have been invited to read papers before the Improved Breeders' Association at their meetings in Topeka, January 12.

C. D. Levan, owner of Glendale Fruit Farm, Sanborn, N. Y., renews his subscription to Kansas Farmer by paying three years in advance and adds that "The Kansas Farmer is most valuable to us in our work." He also inquires as to where he can buy alfalfa by the car load, and at what price. Perhaps some of our readers can furnish the needed information.

I. M. Fisher, Hastings, Neb., who has been a persistent and successful advertiser of O. I. C. swine in Kansas Farmer, is the secretary-treasurer of the newly organized Western O. I. C. Recording Company. The other officers are, president, J. P. Canaday, Carrollton, Mo.; vice president, A. J. Collins, Cedar Rapids, Neb.; directors, John Cramer, O'Keefe, Okla.; Chas. W. Crozier, Juniata, Neb.; W. W. Goodrow, Hill City, Kan.; J. M. Quinderg, Springerton, Ill.; Ed Schoel, Albany, Ore., and J. T. Scarff, Salem, Ia.

The J. N. Johnson Land Company of Dalhart, Texas, have started an advertisement in this issue of the Farmer. This is an old established firm, and one that is thoroughly reliable. They live in Dalhart, the center of the richest farming section of the famous Panhandle country. They have the best bargains to be found in this section. Any of our readers who want a home or an investment should investigate their propositions. They will send illustrated descriptive literature free to any reader of this paper. Look up their ad in our Texas land department and write them.

Logan & Gregory, well known Poland China breeders of Beloit will make a dissolution sale of their Poland China herd in Beloit on January 21. The great brood sows of this herd go in this sale. A nice lot of them bred to old Glasco Chief that Mr. E. C. Logan recently purchased a half interest in for use on the sows that go in this sale and future use in his herd which will be maintained at Beloit. This sale is a dissolution sale to close up a partnership existing between Mr. Logan and Mr. Gregory, Mr. Gregory retiring from the partnership to take up more extensive farming in Nebraska.

Dulany & Randol, the pioneer real estate firm of Custer county, Oklahoma, and one of the most successful real estate firms of Western Oklahoma, start their advertising with this issue of Kansas Farmer. This firm is located in Clinton, a thriving city of 4,000 population, and the junction of four railroads. This is the section of Oklahoma where the combination of corn, alfalfa and hogs are making the farmers rich. Look up their advertisement and write for their large list of choice lands in Custer and adjoining counties at \$39 to \$50 per acre, mailed free to any reader of Kansas Farmer upon request.

Pearl H. Pagett, Beloit, Kan., will sell a draft of bred sows February 1 at his farm. This sale is to be a combination sale in the sense that his friend a fellow breeder, R. G. Sollenburger of Woodston, Kan., will consign half of the offering. It is to be a "crack" offering of bred sows. Nothing but extra good quality and breeding goes. Both have planned this combination sale of picked sows for the past year and it is going to be a great offering. They are in a circuit with E. M. Myers, Burr Oak, Kan., and Rinehart & Slagle of Smith Center, Kan., 150 bred Duroc sows will be sold on this circuit and nothing better will be sold in the United States this season. Come out and see. Orders booked for catalogs anytime.

Among the prominent buyers at the Evert Hays dispersion sale of Shorthorns at Hiawatha, Kan., recently was George Meals of the firm of Meall Bros., of Cawker City, Kan. This is one of Mitchell county's crack herds of Shorthorns. On the above occasion three valuable animals were added to their herd. Two pure Scotch cows bred to the great breeding bull, Snow Flake and a great pure Scotch heifer calf sired by Snow Flake. The heifer calf is pure white and is said to be the only white calf ever sired by this famous bull. The three head cost Meall Bros. \$550. Mitchell county is fast becoming a Shorthorn center and headquarters for the best in Shorthorn breeding. Meall Bros. have a few choice young bulls of serviceable age for sale. Address them at Cawker City, Kan.

W. E. & J. M. Rogers, Beloit, Kan., have some young Berkshire boars for sale. The dam of these particular boars was Betsy by Speculation who sired the \$3,000 Lord Bacon. This dam of Betsy was Alice Majestic who was champion at the American Royal two years ago. The sire of the young boars for sale was Commander and Betsy, their dam was bought in David Page's sale at Topeka last winter. If you are looking for something that is not only good and useful but fancy bred, better write the Rogers about this litter of boars. They will be priced right. They also have left one yearling Herford bull for sale. He is a splendid calf and will be priced worth the money. W. E. & J. H. Rogers as well known breeders of Hereford cattle and Berkshire hogs. They are located near Beloit and are up to date farmers and breeders. If you want a dandy Berk boar better drop them a line for description and price.

Southmond Herd of Large Polands. On Jan. 20, Roy Johnston of Southmond, Kan., will sell a draft of his large type Poland Chinas. Send your name in early

for a catalog. This will be one of the best lots of large Polands to be sold this year. Watch for further mention of this sale in Kansas Farmer.

The New Overland Automobiles.

That 1910 will be one of the biggest years in the history of the automobile industry is the belief of many of the leading manufacturers of this country, and the belief of F. A. Barker, Sales Manager of the Overland Co. That no year ever opened so brilliantly or offered such remarkable prospects as does the coming year is shared by many other manufacturers. His belief as regards the season ahead is based on a number of reasons that seem to give him good ground for it. "Many Overland agents," he said, "who originally ordered 50 cars are now increasing their orders to 75 and 100. Those who originally asked for 500 cars are doubling their orders and the demand all over the country has increased proportionately. That the automobile is not a fad or a fancy is a truth that is being established," he added. "On the contrary, the automobile is proving itself of greater commercial value every day in the week. In addition to its value as a business proposition, it amuses, too, an element of pleasure found in few other investments." The farmer now realizes that the automobile, like the telephone, the rural delivery and other modern conveniences, is making life more enjoyable for him, and his great prosperity is allowing him to get enjoyment which in other years was denied him. He has begun to realize, too, that the automobile lessens his labors and increases his pleasures. Especially true is this of western farmers where the acreage is much greater per farm than in the east. These facts combined with the knowledge that it is no longer necessary to pay several thousand dollars for an automobile have resulted in rather general buying of cars by farmers throughout the country. A good percentage of the total sales of Overlands last year were to farmers and this early in the season the demand for 1910 cars from this source is being felt. In fact, the call for new models from every section of the country is greater than it ever has been so early in the season is the claim made by Mr. Barker, which would seem to bear out the belief of other manufacturers that next spring will see a shortage rather than an over-production of cars.

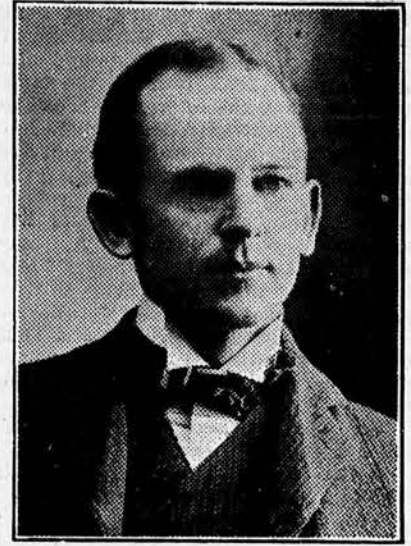
Gasoline Engines.

There isn't a national issue of greater interest to the farmer than the live subject of gasoline engines. What makes one en-

gine better than another? What are the points to consider in buying an engine? A satisfactory answer to these two questions is worth a whole lot to the farmer who can't afford to waste any money or time experimenting. A booklet recently came into our hands called "16 Reasons." It is sent out by the Temple Engine Mfg. Company of Chicago. They state very plainly and to the point sixteen reasons why their "2 in 1" Master Workman gasoline engines are superior to other engines. Because these people have been in business over half a century and are recognized everywhere as authorities on all-power engines, we reprint some of the most important of these Reasons. The Master Workman is a 2-cylinder engine so adjusted that two cylinders are used for heavy work and one for light work, built on the inverted, vertical principle. Other important reasons are that the Master Workman engine occupies less space than any horizontal engine, and can therefore be used most conveniently where room is limited. It also has more uses and works under more varied conditions than any other engine. One particular point is that the Master Workman engine has absolutely perfect lubrication and therefore runs steady with full use of power and lasts longer. Then again, the mechanism is in full view, which is a most important advantage and makes it especially adaptable for beginners. Another reason is, its full power is available up to the limit, which is not the case in a single cylinder engine. Especially strong is the reason that the Master Workman engine is the only gas engine that runs successfully with gas, gasoline, distillate kerosene or alcohol without change of mixers or other expensive changes. The last reason given in this booklet is that Master Workman engines are built by a company who guarantee protection to every buyer. Coming from a company in the 56th year of its business life, this guarantee has a very strong meaning. Mention Kansas Farmer and write the Temple Engine Manufacturing Co., 438 West 15th St., Chicago, Ill.

Relieves Suffering from Dislocated Knee. 100 Fowellton Ave., Lansdowne, Pa., 5-12-09. Dr. B. J. Kendall Co.

Dear Sir: Enclosed you will find stamp for copy of your Treatise on the Horse. I have been using the Refined Liniment on a badly dislocated knee and I believe it has done me more good than all the severe treatment I have undergone from many doctors. It is now about well, the accident occurring two years ago, and I have been using your liniment ever since. Respectfully, Mrs. Katherine Hubbard.



R. B. BEARD, MUSKOGEE, OKLAHOMA.

Free Farm for Man Who Knows How to Farm It.

R. F. Beard & Co., a prominent real estate firm of Muskogee, Okla., who have large holdings in and about Muskogee, are going to establish an agricultural experiment station two miles southeast of Muskogee. This firm for many years was located at Anthony, Kan. It is Mr. Beard's plan to donate free of charge to a graduate of the agricultural school of Oklahoma, Kansas or Nebraska the use of a large tract of land for three years. The reason for the station is to show outside purchasers who have not the time to go to the agricultural college at Warner, Okla., the variety of products that may be raised on a single Oklahoma farm. This station will greatly increase the value of land near Muskogee. Write them for further information.



Few men have made a greater success in the business of importing and breeding draft horses, especially Percherons, than Frank Iams of St. Paul, Neb. Beginning in a rather small way mid the sand hills of the Loup river, the methods he has pursued, the quality of horses he has handled and the splendid climate in which he is located have enabled him to go forward by leaps and bounds until he is now one of the best known Percheron men in the United States, with a large and constantly growing clientele. Among the elements of his success may be mentioned the fact that he is a thoroughly capable judge of horses; that he personally inspects and buys his own horses in their home district in France and that

whatever guaranty he makes on a horse he makes good. Speaking the French language like a native, he has an immense advantage when buying and the fact that he buys in large numbers makes it economical in shipping. The pictures of his horses that are shown in Kansas Farmer from time to time are taken from life by Lon Burk, who is one of the most famous animal artists in this country. They represent the animals as they are. At the time of the writer's last visit to St. Paul, Mr. Burk had been at work about three weeks in making portraits of the individuals in Mr. Iams' last immense importation and had others yet to make. A glance through the big stables will

show that Mr. Iams is a keen judge of horseflesh and his quotation of prices certainly ought to satisfy any buyer. As an exhibitor Mr. Iams has been the heaviest contributor to the show rings of his own state fair for many years as well as in those of nearby states, where he has always secured his share of the ribbons. It is a matter of pride to Mr. Iams to be able to say that his customers to whom he has sold horses come back to him year after year and this result is obtained through the quality of the horses offered and the prices asked. If you want a good horse at a fair price, ask Iams about what he has to offer. Please mention Kansas Farmer when you write.

Mitchell County Breeders Notes.

Leon Carter, the well known Duroc Jersey breeder at Asherville, Kan., has purchased from L. D. Paget & Segrist their sweepstakes yearling boar for use in his herd. "The Golden Rule Stock Farm" is the home of the best in Duroc Jerseys and Rhode Island Reds.

H. B. Vanhooser Sells Jan. 21.

On Jan. 21 H. B. Vanhooser will sell one of his good offerings. Mr. Vanhooser promises to offer one of the best lot of brood sows that has ever been sold at the Vanhooser stock farm. A number of these sows and gilts will be bred to Parnell. Send in your name early for a catalog, and arrange to attend this sale.

F. G. Nies & Son Sell Jan. 27.

We wish to call our readers' attention to the sale date claimed by F. G. Nies & Son, of Goddard, Kan. This sale will be held at Clearwater, Kan., on Jan. 27, 1910, where they will offer the best lot of brood sows ever sold by this firm. Watch for further mention of this sale in Kansas Farmer, and send your name for a catalog.

W. W. Martin Sells Jan. 26.

On Jan. 26 W. W. Martin, Anthony, Kan., will sell at public sale a draft of Poland Chinas that should be appreciated. Mr. Martin breeds for size and quality and will sell the best in his herd. Watch Kansas Farmer for further mention of this sale. Send your name in early for a catalog.

Large Type Polands.

We wish to call our readers' attention to the ad of large type Poland Chinas of F. S. Cowles, Lawrence, Kan. Mr. Cowles is offering a few choice spring gilts, either bred or open. They are bred strictly from a large type standpoint and are grown big. Write for prices. Kindly mention the Kansas Farmer.

Used 20 Years, Always on Hand, Good for Man or Beast.

Island Ave., Blue Island, Ill., May 21, 2909. Dr. B. J. Kendall Co.

Gentlemen: I have been using Kendall's Spavin Cure for over 20 years. I have at all times kept a bottle of Spavin Cure in my barn, and always found it a good medicine to have on hand for man or beast.

Yours respectfully,
George Wilson.

The State Corn Show.

The biggest corn show ever held in Kansas will be held in Manhattan during the week beginning Dec. 27. In the first place there will be probably five hundred boys from different parts of the state, each boy with the very best ten ears of corn he has grown and then the Kansas Corn Breeders' Association will hold its session the same week and the officers are expecting three or four hundred entries. The prizes for corn amount to about \$800. This year for the first time a division has been made in the contest allowing the boys and men

KANSAS LAND

GOOD FARM, WELL LOCATED.

100 acres, 90 acres cultivation, 10 acres pasture, 6 acres alfalfa. Has 4 room cottage, barn 8 horses, granary, all in good condition. 6 acres fine orchard, berries, grapes, well good water, most all farm fenced hog tight, soil is sandy loam and rich 2 miles from good railroad town with high school, mill, 4 elevators, 2 banks, good stores and churches, etc., 22 miles from Wichita in Sedgewick Co. Price \$7,000; this is a bargain. Send for list of farms. The Nelson Real Estate & Imp. Co., 137 North Main St., Wichita, Kan.

PRICED TOO CHEAP

at \$25.00 per acre, but the owner, who has rented it for a number of years, has moved to Wichita and cannot look after it; 160 acres in Cowley Co., 5 miles from R. R. town, good roads, 1 mile from inland town, with church and school; all smooth, level land, without a rock or foot of waste; fenced and cross fenced; 80 acres in cultivation; 4 acres hog-lot, balance pasture, small orchard, fair improvements, telephone and R. F. D., alfalfa land, 8 to 20 feet to water. If you are looking for a good, cheap farm, don't let this get away. \$2,100 will handle.

SHARP REALTY CO.,
Wichita, Kansas.

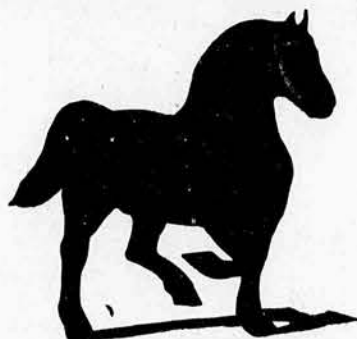
PERCHERON HORSES, HOLSTEIN-FRIESIAN CATTLE.

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

H. N. HOLDEMAN,
Meade, Kansas.

SHETLAND PONIES FOR SALE—20 imported stallions and a few bred mares. We have recently returned from Scotland with the finest importation of ponies ever brought to Nebraska. Write for private sale catalog. CLARK BROS., Auburn, Neb.

50 Imported Percheron Stallions and Mares 50



Ten stallions, blacks and grays, selected for the best trade. Handsome animals, nothing but imported horses handled, of the best breeding, terms, insurance and guarantee.

PERCHERON IMPORTING CO.,
Chas. R. Kirk, Pres., South St. Joseph, Mo.

from Western Kansas, west of the west line of Jewell, Ellsworth and Kingman counties.

The Christmas Breeders Gazette.

The Christmas number of the Breeders Gazette is a splendid example of journalistic enterprise. Filled to the brim with special articles contributed by the best known writers on their several subjects and illustrated in the highest possible style, this issue of the Gazette becomes a treatise on the best phases of farm life that is well worth the price of the whole year's subscription.

Enid Poultry Show.

The Oklahoma branch of the American Poultry Show held an interesting meeting during the week of the Enid Fine Live Stock Show. Interesting subjects were discussed by the following well known poultry men: W. P. Smalley, Shawnee, Okla.; Reese V. Hicks, Topeka, Kan.; Prof. Charles K. Graham, of the Hampton Agricultural College, Hampton, Va.

10 Good Poland Boars.

Mr. J. F. Menehan, big type Poland China breeder of Burchard, Neb., has for quick sale 10 good strong well finished spring boars. They are by Orphan Chief, Jr. and Hutch, Jr., and out of large heavy boned sows. Mr. Menehan wants the room and is prices these boars at very moderate prices. Write at once and mention Kansas Farmer.

The State Farmers' Institute.

The State Farmers' Institute at Manhattan for the week beginning Dec. 27 ought to be of direct interest to every county in Kansas. There will be at that meeting boys and girls, farmers and their wives, from practically every county in Kansas and we hope a large delegation may go from this county. The work is free and open to all boys and men over fifteen years of age and to all women and to girls above 14 years of age.

Standard Poland China Meeting.

The Standard Poland China Record Association will hold its annual meeting at South St. Joseph, Mo., on Jan. 4-5. The first day will be devoted to institute work and a number of very valuable papers will be presented. The second day will be devoted to business matters entirely. Everybody who is interested in good hogs and especially those who are interested in good Poland Chinas, is invited to be present on institute day, Jan. 4.

Wayside Farm Sells Jan. 19.

On Jan. 19, 1910, H. O. Sheldon of the Wayside farm near Wichita, Kan., will sell a draft of his large type Poland Chinas. H. O. Sheldon has gained an enviable reputation among the Poland China breeding fraternity and always puts up an offering that makes good to the farmer and breeder. He does not pamper or overfeed them but has them in good growing condition. Send your name in early for a catalog and make your arrangements to attend this sale. Kindly mention the Kansas Farmer when writing for catalog.

A Satisfied Advertiser.

"The little ad in Kansas Farmer brought me a flood of letters and I am all sold out long ago. Could have sold 30 dozen if I had them. I sold 40 pullets to one man at a good figure. Your paper is certainly read by the folks that want good poultry. I have no more chickens for sale but will have eggs later. I showed at the Clay county poultry show held at Clay Center and won as follows: First and second pen first and second cockerel and first, second and third pullet. DeLoss Shapin, Breeder of S. C. Rhode Island Reds, Green, Kansas."

The Oklahoma Improved Stock Breeders Association.

The annual meeting held by the above association during the Enid Fine Stock and Poultry Show was an enthusiastic one and well attended. The new officers elected to serve for the coming year are as follows: President, C. H. McAllister, Carmen, Okla.; first vice president, W. A. Sayre, Morrison, Okla.; second vice president, M. H. Lyons, El Reno, Okla.; third vice president, H. E. Miller, Beggs, Okla.; fourth vice president, M. Gayre, Ardmore, Okla.; fifth vice president, T. E. Smith, Norman, Okla.; secretary and treasurer, Frank Taggart, Waukomis, Okla.

25 Duroc Boars.

Frank Elder, present proprietor of the noted Highland herd of Durocs and owner of the great King of Cois 2nd and G. C's Col out on his fall sale and offered his entire crop of boars at private treaty. He started in with about 60 and so good has been the demand that he sold considerable over half of them but still has in the neighborhood of 25 good ones. They are quite large and very vigorous. Let no one get the idea that it is culls that are being offered for that is not the case, some of the very best boars are still in the bunch and prices are very low for the kind. Write at once.

Duroc Herd Boars.

Chapin & Nordstrom have been usually successful in selling boars this season but a large per cent of their sales have been to farmers and breeders at prices from \$25 to \$50 and they have left a half dozen outstanding boars, among them about the best pigs ever seen on the market. These are herd headers and good enough to head any herd and are being priced low considering their excellent breeding and individuality. Among them are boars that could be shown successfully another season. Write Chapin & Nordstrom at Green, Kansas. They have sold to every man that has visited the farm for the purpose of buying.

The New Horticulture.

R. M. Kellogg & Co., Three Rivers, Mich., have just published a handsome booklet under the title "The New Horticulture" that should have a place in the library of every farmer. This book is devoted to the growing of strawberries, and includes chapters on "Conserving the Forces of Heredity," "Fitting of the Soil," "What Kind of Soil is best," "Setting Plants," "Mating Plants," "Removing Blossoms," "Spraying," "Mulching," "Cultivating the Fruiting Bed," "The Use of Fertilizers," "Picking and Marketing Berries," "New Varieties," etc. The book is copiously illustrated, and is well worth having. Write to R. M. Kellogg & Co., and mention the Kansas Farmer. The book is free.

Herd Boar Included in Sale.

W. L. A.'s Choice Goods, owned by W. L. Addy & Son of Parnell, Mo., has for some time been recognized as one of the few sires of the breed good enough to improve the breed. He is one of the most perfect of sires as an individual, but his real greatness consists in his ability to reproduce himself. Animals sired by him are readily recognized by those familiar with him and

FRANK IAMS'

new importation of draft stallions and mares arrived September 20, 1909, by "Iams' own special train" of "ten 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 27 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

200--PERCHERONS AND BELGIANS--200



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, salesman 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 Horse Catalog, Greatest on Earth.

References—St. Paul State Bank and Citizens' National Bank,
ST. PAUL, NEBRASKA

**56 OF BEN BELL'S
Great Bred Sows
AT AUCTION**

Friday, Jan 7, 1910

**In Heated Pavilion
Two Miles from Town**

Ten, 2, 3 and 4 year old sows, the best I have ever owned. Would not be for sale for any reasonable price if I did not need the money.

Thirty spring yearlings as good or better than their dams. Big, smooth and prolific. They have paid for themselves and go into new hands just in the prime of life.

Ten fall yearlings of proven worth that have made me money. Those by Bell Metal and bred to What's Ex will produce the best cross I have ever known since I have been in the breeding business.

Six spring gilts, selected ones, they demonstrate fully the great principle that like begets like. Size and quality can only be combined by proper mating.

Everything bred for February and March farrow. Fifty per cent to the eight hundred and ninety pound out cross sire, Colossus. The others to the noted Expansion boars, Bell Metal and What's Ex. This is my greatest sale and includes sows sired by Bell Metal, What's Ex, Expansion, Prince You Tell, Expansion See, Hutch, Gold Metal, Highland Prince and Nebraska Jumbo. This is a select offering and will challenge admiration of all good hog men no difference whether their hobby is size or quality. This offering has both. Free entertainment and transportation to farm. Write for catalog. Mention this paper.

F. C. Callahan, auctioneer. Jesse Johnson, Fieldman.

**B. M. BELL,
BEATTIE, KAN.**

KANSAS LAND

KANSAS LAND

ARE YOU INTERESTED IN FARM BARGAINS?

We have thousands of idle acres in the rich and resourceful west that can be bought at a low price and on easy terms.

WE HAVE LAND IN ALL PARTS OF THE UNITED STATES

to sell and we present to you only the facts about our lands and the locality in which they lie.

WE ARE THE ONLY UNIFORMED LAND AGENCY IN THE WORLD.

Homeseekers' rates on first and third Tuesday of each month.

THE UNITED STATES LAND AGENCY

John H. Wood, Manager. General Office, Kansas City, Mo. BRANCH OFFICES—Hays City, Kan.; Arcadia, Mo.

FILL OUT AND MAIL TODAY.

Name Town State The United States Land Agency, Kansas City, Mo.; Hays City, Kan., or Arcadia, Mo.

DICKINSON COUNTY BARGAINS

240 a well improved farm, 4 miles from town, 100 a. fine creek bottom land, balance slope, 20 a. hardwood timber on one end of farm, living water, 50 a. fine pasture, 12 a. alfalfa, balance plow land.

320 acres of perfectly level land, 160 acres in cultivation, good improvements, close to school, on telephone line and Rural Route.

160 acres adjoining town, all in cultivation, good house, barn granary, good orchard of all kinds of fruit, fenced and cross fenced.

110 acres fine river bottom. All in cultivation. A few nice pecan trees, no gumbo, sandy loam. Produce 60 bushels of corn to the acre.

80 Acre Stock and Grain Farm

two miles of two railroad towns and near trolley line, 430 acres rich creek bottom and second bottom, black loam soil, does not overflow, best of corn, alfalfa and wheat land, 300 a. fenced hog tight with good cross fences, two sets of improvements, No. 1 seven room house, three good barns, all good condition, 18 barrel capacity; plenty bearded; never failing well, soft water, three water tanks; 18 barrel capacity; plenty bearded; never failing well, soft water, three water tanks; 20 a. good timber, living fruit trees, good stock scales, with house over and stock yards, 20 a. good timber, last a life time; never failing supply natural gas to run all machinery and for light and fuel.

R. M. DODSON, Owner, Kansas.

ZIMMERMAN IRRIGATED LANDS.

On January 1, 1910, the price of these lands advance to \$60 per acre, including perpetual water rights. You can secure an application now for 20, 40 or more acres at 75 cents per acre per month, without taxes or interest on all payments made before 1913.

100 West Seventh Street, St. Louis, Mo.

A GENUINE FARM BARGAIN.

160 a., 25 mi. S. W. of Topeka, 7 mi. of good town, 140 a. tillable, fenced and cross fenced, \$32.50 per acre. Terms.

300 of the best farms in northeast Kansas. We also make a specialty of selling Woodston Co. land; have many bargains. Write for price list to MANVILLE & BAILEY, Jackson Co., Kansas.

A RANCH BARGAIN.

2240 acres, 3 miles of Goodland, Sherman Co., Kan., well improved, 500 acres in cultivation. This is an estate and must be sold soon. Price only \$12.50. Easy terms. For full information, write W. H. LINVILLE, Beloit, Kansas.

MONEY FROM HOME.

640 acres, a solid section, 2nd creek bottom land, all can be farmed, rich soil, all in good grass, in a splendid neighborhood, excellent water, one mile to a good school, for the low price of \$15 per acre; one-half cash, balance terms. No trades. Send for big list. STINSON & WEYAND, Spearville, Kansas.

FOR SALE.

I offer a special bargain this week in a half section of smooth land, 1 1/2 miles from Colby, Kansas, the county seat, all broke out and seeded to winter wheat, in good season, all the wheat to go with the land. This wheat crop will go a long way toward paying for the land. Price \$25.00 per acre. It will pay you to investigate this by writing the owner. IKE W. CRUMLY, Colby, Kansas.

15,000 ACRES FOR COLONIZATION.

15,000 acres, all prairie land, dark sandy loam soil, fine location, near Houston, suitable for farming or anything, corn, cotton, cane, alfalfa, oranges and figs. Price \$16 per acre, terms given. Farms in Reno, Kingman, Sumner, Harper, Gray, Scott, Lane or any county, improved or unimproved. ROSE & SON, 5 Sherman, East, Hutchinson, Kan.

A QUARTER FOR \$4,000, A BIG SNAP.

160 acres, half mile to school and church, good five room house, fair stable and granary, some timber and 80 fine bottom land that does not overflow, place is leased by Kansas Natural and has been paying \$500 a year gas royalties, still good and next payment \$250 due in Feb. Belongs to heirs, must sell. Investigate this. Somebody will get a snap. No. 1 adv. last week sold. Come get yours. DONAHUE & WALLINGFORD, Mound Valley, Kansas.

his type. Every one of his sons have made good and he has to his credit one of the grandest lots of sows ever sired by one boar in the middle west. He never sired a pig with a bad foot, poor head and ear, rough coat or a bad back. This great boar now just in his prime will be included in the Addy's closing out sale Jan. 24.

New Irrigation Project.

We take pleasure in calling the attention of our readers to the half page ad in this issue of the Arno, Irrigated Land Company. This company is composed of reliable men, who have just completed one of the most extensive irrigation systems in the Pecos Valley of Texas, and are now offering for sale their lands under this system, together with lots in the townsite of Arno, a new town on the Santa Fe, which is evidently destined to be one of the coming cities of West Texas.

Page Fence Sales Boom.

The Page Woven Wire Fence Company, Box 275, Adrian, Michigan, is doing a great business. The new plan of sending out actual samples showing Page wire and the Page constructions, has attracted widespread interest, and we understand that this distribution of wire has had much to do with the record-breaking sale of Page Fence.

An Annual National Fair.

With a capital stock of \$1,000,000 there has been organized the United States Agricultural and Industrial Exposition Company, whose purpose is to hold a great national fair once each year at some point yet to be determined. Canada has such a national fair and so have a number of the states of Europe, and they have always been successful. This association has been under way for some time, but has only lately been incorporated. Its present headquarters are at Hartford, Conn., though these may be moved at any time when the site of the fair is determined.

Tolling and Tilling the Soil.

A beautifully printed and illustrated booklet, bearing the striking title: "Tolling and Tilling the Soil," has just been received from the M. Rumely Co., of LaPorte, Ind. This company is the manufacturer of the famous oil pull tractor engine, at LaPorte, Ind. The book is full of interesting matter, and has chapters on the world's wheat supply, kerosene for fuel, the application of power to human need and a full description of the general construction and reliability of the oil pull tractor engine.

A Great Herd Boar Leaves Kansas.

Dietrich & Spaulding, Ottawa, Kan. who are known wherever good Poland China sows are, have lately sold that wonderful young herd boar Parnell 128417 to H. R. Van Hooser, Eldon, Mo. Parnell is by Perfection 2, L., and out of Clear Sky by Keep On. His second dam was Cloudland by Chief Perfection 2d. His third dam was Maud Tecumseh 2d by Big Tecumseh 2d. This is a wonderful combination of Perfection, Tecumseh, Look Me Over and Black U. S. blood, and Mr. C. F. Dietrich finds very many Poland China breeders in the state who believe with him that Parnell is the best boar that was ever sold in Kansas. Mr. Van Hooser, who bought the famous Goodrich Stock Farm, is arranging to hold a herd sow sale on January 21 in which he will offer a number of sows and gilts bred to Parnell. Here is a chance that the breeders can not afford to miss. Dietrich & Spaulding have some of his got still in their herd which will be well worth the money asked for them.

Fisher Sells High Class Durocs.

On Jan 6, 1910, H. E. Fisher of Danville, Kan., will offer at public auction one of the best lots of Duroc Jersey sows and gilts that will be sold this spring. There will be sold in this sale three tried sows by Buddy K IV. They are extra good individuals and are bred right. Two fall yearlings by King Col's and out of a Model Chief Again dam. Two fall yearlings by Tip Top Notcher and out of a daughter of Buddy K IV. Forty spring gilts by a son of Buddy K IV, Tip Top Notcher, Gold Cloud Model and Model Chief Again. Most of the sows and gilts are bred to a son of Ohio Chief and King of Col's. Mr. Fisher is a young man worthy of holding a good sale. He is not only a careful breeder, but a good feeder. Send for a catalog and arrange to attend this sale. All trails will be met at Argonia and free conveyance to the farm. Come and buy some of this good offering. Remember the date is Jan. 6, 1910, and the farm is near Danville and Argonia, Kan. Mention Kansas Farmer when writing.

Save the Quail.

Mr. A. Hockson, Woodston, Kan., writes that he is very much interested in the recent number of Kansas Farmer on the protection of quail. But he would go a step further. He thinks the coming legislature should annul the present law and enact a new one providing a \$50 fine for any one who should kill a quail at any time of the year.

KANSAS LAND

WICHITA'S GOOD THINGS TO BUY. This is 80 acres, eight miles out from this 50,000 city, and has 16 acres of bottom land now set to alfalfa and balance is good upland and in a community where the land is regularly about \$100 per acre. Good six room house, barn 16x24 and shed 16x32. All in cultivation but 18 acres.

Also 146 acres, 5 miles out of town, and has 50 acres in fruit, six acres in grapes and small piece of alfalfa; land is a good all round farm for the situation here close to town as it has some good truck land on it and that is so profitable here close to the city.

I. B. CASE & CO., Over 103 W. Douglas, Wichita, Kan.

TEXAS LAND

IF YOU WANT TO BUY

Panhandle lands at the lowest prices on the best terms, write to or call on L. T. SEARS, Amarillo, Texas.

Dalhart Texas is where we are located and we have some land bargains for the buyer. Write for our free, handsomely illustrated book or come to Dalhart and let us show you a country without a fault.

J. N. JOHNSON LAND COMPANY, Dalhart, Texas.

TOO LATE TO CLASSIFY.

BLACK LANGSHAN COCKERELS—Standard bred. Large bone. Green barring. One for \$2. Two for \$3. Mrs. D. A. Swank, Blue Mound, Kan.

GOLD PLUM S. C. BUFF ORPINGTON cockerels for sale. Nothing better in the state. No culls shipped. Satisfaction guaranteed. A. E. Graham, R. 2, Sedan, Kan.

FOR FREE INFORMATION ABOUT Beckham county, Okla., land, at \$3,000 to \$6,000 a quarter, write to or call on E. A. Holmes, Real Estate, Erick, Okla.

FOR SALE—GASOLINE WELL DRILL rig, good as new, all complete for 100 to 300 foot work. Grant Ewing, Blue Rapids, Kan.

FOR SALE—A VALUABLE TRACT OF timber land in Mexico, near railroad, and on bank of a large navigable river, 100 miles from port of Mexico. Forest abounds in mahogany, rosewood and other valuable hardwoods. Object in selling to dissolve partnership. Grant Ewing, Blue Rapids, Kan.

EXTRA GOOD PURE BRED RAM-bouillet breeding ewes in lots to suit. Prices low if taken soon. Also registered young Tamworth boars. J. G. Troutman, Comisky, Kan.

WANTED—GOOD USED NO. 2 OR 3 steam well rig, Keystone or Star preferred. Must be in first class shape and price right. Grant Ewing, Blue Rapids, Kan.

WANTED—MEN TO LEARN THE BARBER Trade; few weeks complete, practical instructions by experienced barbers who know their business and teach it as they know it; extra large outfit of tools given with reduced tuition price; wages while learning; diplomas granted; write for free catalogue, handsomely illustrated. Schwarz System of Barber Colleges, 30 W. California Ave., Oklahoma City, Okla.; Wichita, Kan.; El Paso, Texas; 75 E. 2nd St., Amarillo, Tex. Address any school.

STALLIONS AND JACKS

Several Kentucky jacks from 15 to 16 hands high. One mile from town. Holton, BRUCE SAUNDERS, Kansas.

POLAND CHINA SALE, JAN. 24, 1910. 23 bred sows, 10 gilts, 10 boars, 17 summer and fall pigs. Send for catalog and come to my sale.

CHAS. H. McALLISTER, Carmen, Oklahoma.

10 SPRING POLAND BOARS 10

Big, husky fellows, sired by Orphan Chief Jr. and Hutch Jr., out of strictly big type sows; low prices.

J. F. MENEHAN, Burchard, Nebraska.

Notice of Final Settlement.

The State of Kansas, Shawnee County, ss: In the Probate Court in and for said County.

In the matter of the estate of William F. Rurgles.

Creditors and all other persons interested in the aforesaid estate are hereby notified that I shall apply to the Probate Court in and for said County, sitting at the Court House in the City of Topeka, Shawnee County, Kansas, on the 7th day of February, A. D. 1910, for a full and final settlement of said estate.

Dated Dec. 11th, A. D. 1909. F. M. KIMBALL, Administrator.

WANTED.

Good hatchable eggs in quantity; can use your entire output from pure bredstock (different varieties) from January to October. Why bother with small orders when we will take all as fast as the hens lay?

FOR SALE.

Baby chicks (different varieties) any quantity, any season, full count and live delivery guaranteed.

CUSTOM HATCHING AND BROODING.

Eggs for hatching. Our egg contract circular and catalog free for the asking.

F. C. FISH POULTRY YARD & HATCHERY, Now 1204 Main St., After Jan 1, 4334 Bellevue.

Both Phones, Kansas City, Mo.

He states that the fields are becoming more infested with insects each year, and there is no more valuable bird for their destruction on the farm than the quail. Our present laws are made so as to provide an open season on quail from November 15 to December 15, but in very many localities little attention is paid to these laws and the birds are slaughtered before the opening day of the season. In an article on another page will be found some facts in regard to the benefits that the quail brings to the farmer, and every farmer in the state as well as every citizen should see to it that the game laws are strictly enforced and then if necessary changes should be made in them at the next session of the legislature.

Big Belgians in Kansas.

H. & H. Wolf of Wabash, Ind., have established a branch barn at Freeport, Kan., from which the big Belgians are supplied from their Hewo stock farm. Buyers can there find the Belgian stallions that have made the Hewo Stock Farm famous from coast to coast. At this Freeport farm will be found the same horses, the same prices and the same courteous treatment that is given to buyers at the Hewo farm at Wabash. Belgians are gaining in popularity in Kansas on account of their size, smoothness of action and style. They are powerful animals and very many farmers prefer them to any other breed. Mr. David Cooper is in charge of the Hewo stud at Freeport, Kan., and will be glad to welcome visitors and buyers and show them the best there is in Belgians. With the quality of stock that Mr. Cooper has in charge, we predict that his Freeport farm will do as much for Kansas in the next five years as the home farm at Wabash, Ind., has done for that state with its Belgians.

The Champion Ito Angus.

Charles E. Sutton of Sutton Farms, Lawrence, Kan., is evidently feeling good over the prospects for the black dodder. No one who visited the great International Live Stock Show at Chicago could fail to wonder at the results obtained by this breed in the show ring. Kansas Agricultural college won the grand championship and the reserve grand championship for individuals on Angus steers. In the car lot division the Angus made themselves prominent. In the sale ring they left little to be desired. The Angus dominated the show. On his own account Mr. Sutton has reason to feel good as he came away from the great Okla. show with 10 first prizes, 3 seconds, and 2 thirds. His calf herd that showed there was sired by that wonderful bull, Champion Ito, which the writer believes is the best Angus bull in the United States today. Mr. Sutton writes the Kansas Farmer that inquiries for breeding stock have never been anything like so numerous as they have been for the past two weeks, and he feels that there is a season of unusual prosperity ahead for the Aberdeen-Angus.

Built Big Business.

Most of us see only the present. We see success only as we are brought face to face with it today. How many of us ever look back for the cause, the vital things that make possible. That the key to real business success is often based on a sound principle, rather than money, is best illustrated by the reproduction of the following biographical sketch of Frederick Mayer, founder of the F. Mayer Boot & Shoe Company, reproduced from an issue of the German American National Alliance: "Frederick Mayer, founder of the factories at Milwaukee and Seattle now bearing his name, came to this country from Niernstein, Hessen Darmstadt, in May, 1851, and immediately proceeded to Milwaukee, Wisconsin, where he entered the employ of R. Suhm as a journeyman shoemaker. The spirit that prompted him to seek his fortune in the new world was soon responsible for another change, and in 1855, a year later, he embarked in business on his own accord, making boots and shoes to order as only a German apprenticed artisan knows how. Subsequently a stock of goods was carried and a retail business conducted until 1880, when the manufacture of shoes was engaged in at wholesale to the trade. The leading brands manufactured by the F. Mayer Boot & Shoe Co., are: 'Honorbilt,' for men; 'Leading Lady' Shoes, 'Martha Washington' Comfort Shoes, 'Yerma' Cushion Shoes, 'Special Merit' School Shoes."

Directum 2:05 1/4 Dead by Blood Poisoning. Directum, the champion trotting stallion of the world for seven years, and one of the greatest harness horses ever known, is dead at the International Stock Farm, Savage, Minn. In some unknown manner the horse sustained a slight scratch over the groin early in the week, and blood poisoning set in and after two days of suffering the famous animal died on night last in spite of the best efforts of the most expert veterinarians of the state. Marlon W. Savage, owner of Directum, Dan Patch, Cresceus, and other famous horses, held back the news of the death of Directum because he did not want it known until Dan Patch should have started in an exhibition

mile against his record at Phoenix, Ariz. Directum was purchased by Mr. Savage in 1901 in New York for \$12,000, and within two hours of his purchase was offered \$25,000 for him. At 4 years of age this famous horse set a mark of 2:05 1/4 in a race thus getting three records in one performance. It was the fastest mile ever trotted by a 4-year-old stallion, the fastest heat by a 4-year-old in a race, and the fastest third heat ever trotted. This record stood for seven years for all ages and yet stands for 4-year-old stallions. The time was beaten in 1901 by Cresceus when he made the mile in 2:02 1/4. Directum was 20 years old and started in 29 races of which he won first place twenty times. During his life his winnings footed up \$40,000, and his colts have brought Mr. Savage many times that sum.

Where Big Polands Abound.

In these days of Sharp competition and Commercialism when it is so hard to separate the real from the unreal it is a very great pleasure to meet and know a man that is moderate and makes you feel like what he has is more than he claims for it. Such a man is M. G. S. Hamaker, breeder of Poland Chinas. Mr. Hamaker is nicely located on a splendid well kept farm one mile west of the town of Pawnee City, Neb. He has what is generally conceded to be the best herd of strictly big type smooth Polands in his locality. He is one of the very oldest breeders and one of the first to discover the real merit of the big fellows. Recently the writer spent several hours in conversation with Mr. and Mrs. Hamaker, staid for supper, coming away with the conviction that men to be successful as breeders of good hogs must have the help that can only be supplied by a good wife. Mr. Hamaker has in his herd some of the greatest sows the writer ever looked at sired by great boars like King Do Do Expansion, etc. And they are for the most part being bred to Looks Grand, the boar that sired the entire offering of 40 head sold by Mr. Chapman at their fall sale for the good average of \$34.50 the best average by far of the season on an offering sired by one boar. Mr. Hamaker's fall offering averaged \$35.10 so it can be seen that Mr. Hamaker's Feb. 23 will be composed of the kind that is in demand. Don't visit this locality any time without going out to Hamaker's free livery.

Stock and Grain Farm.

R. M. Dobson of Independence, Kan., is advertising in this issue a bargain in a stock and grain farm. The writer has been all over this farm and can truthfully say that it is one of the best money making farms we know of. Below we give a part of description. If interested write Mr. Dobson for price: 800-acre stock and grain farm, 2 miles of 2-railroad towns, near trolley car line. 480-acre rich bottom and second bottom, black loam soil, does not overflow, best of corn, alfalfa or wheat land. 300 acres, hog tight fence, all good fences and cross fenced, two sets of improvements, No. 1 7-room house, 3 good barns, all in good condition, will care for 54 head stock tied. Never failing well soft water. Equipped with wind-mill, 84 barrel supply tank. Three water tanks 18 barrel capacity, plenty bearing fruit trees. Scales and stock yards house over scales. 26 acres good timber, last a lifetime. Good supply of natural gas to run all machinery and for fuel. No. 2 improvements, good 7-room house, plenty water, barn 30x40 capacity, 350 bushels grain, 12 ton hay out granary and cowshed, some fruit, one-half section pasture land, 200 a limestone, 120 a sandstone, grass suitable to be made into a good farm, fenced with 4 galvanized wire, hedge post 1 rod apart, good water. The natural gas revenue sold from the 800 acres is \$1,000 cash in advance each year and free fuel for use. 175 a. fine growing wheat. The crops for 1909 will show the real value of this farm. It will be priced on good interest paying basis. One-half cash, balance time if desired to suit purchaser.

The Dean Ear Corn Slicer.

For slicing or chopping up ear corn for feeding purposes the Dean Ear Corn Slicer is the best machine that has yet been invented. It prepares the feed rapidly, easily and in a manner best adapted to the use of the animal. All waste is avoided, and the saving thus made is sufficient to soon cover the cost of the machine. It can be operated either by hand or by power. This machine is also supplied with a short elevator for delivering the cut product into a wagon-box or bin. The corn is cut in lengths of from one inch up to two and one-half inches, but can be arranged to cut as short as one-half inch for feeding calves. The machine is geared for every rapid work, as each revolution of the crank makes four strokes of the cutting knife. At the usual speed of turning by hand one ear can cut from 30 to 40 bushels per hour, depending on the length of the slice. On the opposite side of the machine from the handle, the shaft is extended far enough to enable one to attach a tumbling-rod coupling or a belt pulley by which power may be applied. These machines are designed to cut up ear corn that has been husked, but they will

Irrigated Land Cheap 15,000 ACRES NOW OPEN TO COLONISTS IN THE Sunny Pecos Valley

The largest and most fertile body of land under any irrigation system in Texas.

TOWNSHIP AND RAILWAY STATION

right in the center of the tract, and the Santa Fe Railroad runs through this land.

NO WAITING FOR WATER OR TRANSPORTATION.

Dam, reservoir and canals built at a cost of over 200,000. Location—20 miles north of Pecos City, Texas, and 50 miles south of Carlsbad, New Mexico, right on the Pecos River. Best opportunity ever offered home seekers to secure an irrigated farm at a reasonable price. Will be sold in tracts of 20 acres and up on liberal terms and price. Opening excursion leaves for Arno on our land

JANUARY 4

and other excursions every 1st and 3d Tuesday of each month. Come along, and we will show you the land of

1. Sunshine and Beauty.
2. Biggest and best irrigation system in Texas.
3. Best dam and largest canal in Texas.
4. One of the best located townships in Texas.
5. Cheapest actually irrigated land on earth.

If we fail to show you these things we will pay the expenses of your trip.

FREE WATER

and plenty of it goes with every acre sold. No "paying out" on water rights, when your land is paid for that ends it.

CLOSE TO RAILROAD STATION.

No 40 acres over 2 miles from the Santa Fe or over 3 miles from the depot. Nothing like it in Texas.

PRICES WILL ADVANCE RAPIDLY—NOW IS THE TIME TO BUY.

One man bought 20 acres of irrigated land a few years ago under the Roosevelt dam at \$50 per acre. He has refused \$300 per acre, and is holding it for \$500 per acre. He will get it. This 20 acres has never been improved. Our land will produce from \$50 to \$100 per acre in alfalfa, wheat and oats, from \$100 to \$300 in vegetables, and from \$300 to \$1,500 in fruit.

THE GREATEST ALFALFA COUNTRY

In the world—7 cuttings per year. From a ton to a ton and a half per cutting. Alfalfa is now bringing \$20 per ton at our station Arno. Do your own figuring—these are facts. Go down and see for yourself. Go now. Don't wait, seeing is believing, and believing means buying.

Why stay in this country—freeze in the winter, roast in the summer, and slave the year round, when you can go where you can get rich off of 40 acres of land and enjoy the finest, most uniform climate in the United States? You say. Write now for full information.

The Arno Irrigated Land Co.,

701 Jackson St. Topeka, Kansas
Agents wanted.



The above cut is from an exact photo of Mr. Bruce Saunders' fine jack barn located on his farm one mile from Holton, Kan. The photo also shows some of the big Kentucky jacks that are offered for sale in Mr.

Saunders advertisement which appears elsewhere in this issue. The writer thinks very low prices being made on this stock considering quality. When writing please mention Kansas Farmer.

Jack and Jennet Sale

Fairview Stock Farm

Thursday, Mch. 3, '10

25 big Mammoth Jacks, all good bred and all good breeders, including Tennessee King, grand champion of the world, 12 head 15½ hands and up, 20 head 15 hands and up, 5 head 14½ hands and up.

15 head of big Mammoth Jennets, a grand, useful lot of tried mothers. All safe in the foal to the best jacks in the state.

An extra well bred bunch of big black jacks and jennets. Jacks that weigh 1,200 pounds, jennets as good as the best. We breed 'em, we grow 'em, we show 'em, we buy 'em, we sell 'em.

Send for our great illustrated catalog. We can please you. You are invited to attend this sale.

PETTY BROS.,

SEDALIA, MO.

Duroc Jersey Sale

at Danville, Kansas

January 6th, 1910

50 Head Richly Bred Duroc Jerseys

Three tried brood sows, sired by Buddy K. IV, 2 fall yearlings by King Col. and out of a Model Chief Again dam, 2 fall yearlings by Tip Top Notcher and out of a daughter of Buddy K. IV, 40 spring gilts by Buddy K. IV and Tip Top Notcher and out of such sows as Buddy K. IV, Gold Cloud Model, Model Chief Again and others of like breeding. Most of the sows and gilts are bred and safe to a son of Ohio Chief and King Col's. Sale held under cover at farm near Argonia, Kan. All trains met, free transportation to farm. Send for catalog and come to my sale. Send bids to G. W. Devine, representing Kansas Farmer. Auctioneer, Col. Lafe Burger, Wellington, Kan.

H. E. FISHER,

Danville, Kansas

LAKEWOOD FARM

The Greatest Breeding Establishment in the World.

Calypso, the world's champion, at head of stud. Sensational show record: 30 prizes awarded Lakewood Percherons at International 1909, 12 of which were firsts and championships, a record never before equaled by any one other exhibitor. In addition Lakewood Percherons won 155 prizes at the great state fairs and expositions of the west the past season, 76 of which were firsts and championships. A grand lot of big, heavy boned stallions, and a choice selection of mares at prices that defy competition. If you want the best, do not fail to visit Lakewood Farm before buying.

H. G. McMillan & Sons, Rock Rapids, Ia.

Branch Barns, Sioux City, Ia.

Great Falls, Mont.



H. & H. WOLF and DAVID COOPER

Imported and Home Bred Belgian Stallions

Branch Barn of H. & H. Wolf, Wabash, Indiana.

The same terms and insurance will be given at Freeport, Kan., as at Wabash, Ind. Several extra good two, three and four year old stallions, one that weighs a ton and ten pounds at 27 months old. All are good individuals, guaranteed as represented. Priced reasonable. Write or call and see me.

DAVID COOPER, Mgr.,

Fremont, Harper County, Kan.

Kansas Farmer ads Bring Results

also handle snap corn, though of course the latter requires more power. The machine will also handle turnips, sugar beets, and other kinds of roots that may be wanted for feeding purposes. It is only necessary to remove the throat in order to handle any root or vegetable. Testimonials from all over the country give very high praise to this machine. If you will write to the Enterprise Windmill Co., Sandwich, Ill., and mention Kansas Farmer, they will be glad to send you further information about it.

Ben Bell's Jan. 7 Sale.

Every breeder that wants big Polands or wants to see some really big ones should come to Beattie, Kansas, and attend Ben Bell's Jan. 7 sale. If there be any of the corn belt that still think that Poland China is bound to lack finish, he should be at this sale. If a breeder or farmer would like to say and tell the honest truth that he saw the greatest lot of bred sows sold that ever was sold by one breeder in Kansas he should be at this sale. If the same man has hogs that are small and don't reproduce themselves fast enough this is the sale to attend. If you would like to buy from a herd of a fixed type and from a breeder that has mastered the details of the breeding come to this sale. Buy from Ben Bell and get the benefit of years of intelligent and courageous effort. On the date mentioned Mr. Bell will sell in his heated pavilion at the farm near Beattie, 58 head of 1, 2, 3 and 4-year-old sows, every one just in her prime and a sure and regular breeder, 10 fall yearlings, 30 spring yearlings and 6 spring gilts. About 50 per cent of the offering are bred to the great Colossus. The remainder to Bell Metal and What's Ex, three of the largest as well as smoothest sires that can be found in any one herd in America. Everything is bred for February and March farrow. Included are sows by Bell Metal, Whats Ex, Expansion, Expansion See, Prince You Tell, Big Hutch, Gold Metal, Blue Valley Look and Nebraska Jumbo. Bell Metal is a line bred Expansion and Whats Ex a son of Expansion. Both very large boars and producers of very large stuff. Colossus is an excellent cross on sows by these boars on account of not having any Expansion blood in his veins. He weighs right at 900 pounds in show shape and is closer in blood to old Tom Corwin than any other living boar. Many of the sows in sale are by Bell Metal and bred to Whats Ex. Mr. Bell says this is the best cross he has ever made. The offering will weigh from 400 to 650 pounds. Write at once for catalog of this sale mentioning Kansas Farmer.

The Need of Every Dairyman.

Both large and small, has certainly received careful consideration by the American Separator Company, whose latest introduction in cream separators has created a wonderful interest, for while good machines have been sold at less than \$100.00 it was regarded, by those supposed to be in a position to give an opinion, as absolutely impossible to make and sell a separator for very much less. This idea, however, has been ruthlessly demolished by the American Separator Company offering a complete, up-to-date, well made cream separator for \$15.95, guaranteed to skim equal to any separator made, no matter how much more it costs. Certainly at this price everyone owning a single cow or more will have a separator. These machines are shipped on a good liberal trial and freight charges paid both ways if you do not find it ahead of any other separator. It is easy to operate, any woman or fairly grown child being able to run it sitting down. It skims one quart a minute and is just the thing for a small dairy, hotel, restaurant or private family. It will make more and better butter; will make thick or thin cream by merely turning a small screw and will purify the milk by extracting all the foreign substances contained therein. To one who does not know, it will be a revelation to see what stable refuse milk contains, too fine to be caught in a strainer, but which this separator completely removes. The machine being made and sold by the oldest exclusive manufacturers of hand cream separators in the United States is of itself an assurance of genuineness, and our readers need not for one moment hesitate to approach them; in fact, everyone interested at all in cows should write the American Separator Company, Box 1119, Bainbridge, N. Y., for their \$15.95 proposition. They will send it free, postpaid, together with their handsomely illustrated catalog describing their full line of separators of all capacities and also explaining their system of selling direct to the user, saving all agents' and middlemen's profits. The value offered will surprise you and you will realize how this company has studied and worked to produce a machine especially suitable in capacity and price for the small dairymen whose use of a separator heretofore has been largely prohibited by the high prices asked for large capacity machines.

The Boys' Corn Contest.

Seventy-four contestants entered the Shawnee County Boys' Corn Contest, which was held at the court house on Saturday last and, while the display of corn was not as large as that of last year, the quality was good. This boys' corn contest means so much to the boys who enter it, to the community in which they are growing to manhood, to the state of which they will be citizens and to the perfection of one of our most important crops by selection that we wonder that a greater interest is not taken in it by both the boys and their parents. The Agricultural College is alive to its importance and sent Dean Ed. H. Webster, head of the Experiment Station, and Prof. H. F. Roberts, head of the department of botany, down to speak to these boys and give them encouragement and instruction. The college also supplied the judge in the person of H. C. Bowers, a graduate student and corn expert.

This boys' corn contest was the pet of the late Bradford Miller, who worked unceasingly for its success and it was therefore only appropriate that resolutions of respect to his memory should have found a prominent place in the proceedings.

Awards were made as follows:
Class A—Open to boys who have had instruction in corn judging at the Agricultural college: First prize, \$5, to Floyd Cochran; second prize, \$3, to Martin Titus; third prize, \$2, to Floyd Cochran; fourth prize, \$1, to Emil Rogity.

Class B—Open to boys over 14, who have not had instruction at the Agricultural College: Honorable mention and a trip to the state corn contest to be held at the Agricultural College were provided for these boys and Kirk Butner, Frank Pearis, Chester Engler, Vernice Butner, L. L. George, Harry Liles, Walter Johnson and Howard

Moore were named.

Class C—Open to boys under 14: First prize, \$5, Edwyn Engler; second prize, \$3, Martin Engler; third prize, \$2, Roscoe Butner; fourth prize, \$1, Dewey Koll; fifth prize, Edward Taylor; sixth prize, Delbert Cochran.

Class D—Bushel contest open to men: First prize, \$5, H. V. Cochran; second prize, \$3, Delbert Cochran; third prize, \$2, William Butner.

The Merchants' Association of Topeka plans to provide ways and means for the continuance and enlargement of the Boys' Corn Contest Association next year. Meanwhile about 25 boys will have their expenses paid to Manhattan during the State Corn Show.

L. M. Monsees & Son.

With this issue L. M. Monsees & Son, owners of one of the largest jack and jennet farms in the world, will sell on March 1 and 2, 1910, one of the best offerings of jacks and jennets ever put through a sale. The writer has been calling on L. M. Monsees & Son for six years and attending these sales each year and we note the improvement in the high class offering. While the name of the Limestone Valley Farm is largely known for the largest sales and the highest priced jacks in the world it should also be known that it ranks second to none in saddle horses. On this breeding farm is Limestone Artist 989, or of Artist Montrose's best and most worthy sons. Limestone Artist has sired prize winners from the World's Fair clear down to county colt shows. In other words he is noted as one of the leading horses of the state as a breeder of show quality and as a breeder of business horses. His colts are good for both harness and the saddle. Next is the 6-year-old stallion June King 1776, as perfect a made horse as one would wish, and one of the most popular line bred saddle horses known to the American saddle horsemen by the great Forrest King 1482, a horse known all over this and foreign countries, and one of the best saddlers ever before the public. On the farm are 20 head, from yearlings on. On March 1, 1910, every one will be sold to give room for more jacks. There will be an opportunity of a lifetime to buy the good ones. This date and the day following are the annual sale dates for the Limestone jacks. For 32 years Mr. Monsees has held this date for his great jack sales, that have led all others for price and for quality, and this will be the banner sale on record, because he has the largest and best collection he has yet offered. He never has sold a jack or jennet by the mighty Orphan Boy before. For three years he positively has refused to price a colt by Orphan Boy. In this sale he will sell 25 tried breeding jacks, every one sound, each correctly marked, not one under 15 hands high and only four below 15½, up to 16½ hands high. What a sight. The 20 jennets are from 3 years to 6, the same ages as the jacks, just as large, every one sound. He will sell 40 head of jacks and jennets. To really appreciate the stock one must see it. It's so different. We have often been asked, where does Monsees get the good ones and so many of them. We don't know how it is he comes back each year with a better stable and more of them, but he does it. Remember the 20 registered saddle stallions, mares and fillies, and don't forget that this is the first opportunity to buy a colt out of the World's Fair champion jack, Orphan Boy. If you never have attended Monsees's big jack sale, come to this one. L. M. Monsees & Son has been one of the noted breeders for years. The Limestone Valley farm is six miles east of Sedalia, Mo., near Smithton, Mo. There will be a special train leave Sedalia, Mo., at 8 a. m. for Smithton and return in the evening after the sale. Don't fail to send for a catalog, and arrange to attend this sale of the best lot of jacks and jennets that ever was offered to the public. Kindly mention the Kansas Farmer when writing for catalog.

More High Class Percherons for Mitchell County.

Among the sales of pure bred stock at the recent International Live Stock Exposition at Chicago none was perhaps of more interest to Kansans than the purchase by Ralph G. M. McKinnie of Glen Elder, Kan., from H. G. McMillan & Sons, Rock Rapids, Ia., of the prize winning Percheron mares, Goulotte (71858) 48917, sire Bibi 52612, and Lucy 34974, sire Brunettes (12162) 11416. This pair of iron gray mares weighing each more than a ton, the one 8 years and the other 6 years old have been consistent prize winners at the leading state fairs the past season, and at the Minnesota State Fair Lucy was the Grand Champion Percheron Mare. At the recent International she was second in the aged mare class and there was so little difference in her appearance and the mare that outranked her that many thought no injustice would have been done had she been given the blue ribbon. The 3-year-old mare Goulotte was first in the 2-year-old class and reserve champion at the 1908 International and an easy prize winner in her class at the 1909 International. Lucy is due to foal early in the spring by the noted sire Calypso and Goulotte is heavy in foal to an imported horse of more than usual merit. Mr. McKinnie has always been slow to buy ribbons or papers believing that these are worthless unless the right kind of horse flesh accompanies them, so it was only after a thorough examination and considerable parleying between him and "Jim" McMillan the salesman of McMillan & Sons that a deal was finally made. The McMillans had intended keeping this pair of mares unless they were paid an extra long price for them, but when they learned they were to go to Mitchell county, Kansas, they finally priced them so Mr. McKinnie felt he could buy them, stipulating however, that they were to have the first chance at the colts at weaning time. "I want to congratulate you on owning the finest pair of mares in the United States" said "Jim" McMillan to Ralph McKinnie after the deal was completed. "I don't know about that" retorted Mr. McKinnie. "There are some more mighty good ones in Mitchell county, Kansas, and they are none too good to go where they are going. They'll have to go through the show ring next fall at the Mitchell county fair to prove their real superiority." In addition to these two mares Mr. McKinnie has two mares from the same sire as the grand champion mare of the recent International owned by Maasdam & Wheeler. They were also raised by Maasdam & Wheeler and Mr. Wheeler showed such interest in Mr. McKinnie's small but excellent herd of mares that he offered to sell him an extra heavy boned weighty 2-year-old imported stallion of great quality which they had not shown this year, intending to keep him for their own use. This colt, though not 3 years old until next April, has a 12½ inch bone and though in this condition already crowds a ton.

KELLY & SON'S
Big
Auction
Sale

Of Imported Percheron, English Shire and Belgian Mares at the barns of Watson, Woods Bros. & Kelly Co., Opposite the University State Farm, at

Lincoln, Nebr.,

Wednesday, Dec. 29



Is one that you cannot afford to miss if you are looking for the best in the mare line. These mares were all selected by Mr. Kelly, Senior, for their outstanding individuality and breeding. The offering consists of 10 PERCHERONS, 9 ENGLISH SHIRES and 4 ROYAL BELGIANS with one BELGIAN filley imported in dam. All the mares range in age from 2 to 5 years and are the big, broad, heavy-boned, low-down, blocky type so much in demand by the best farmers to day and the kind needed to improve the stock of this country. We feel justified in saying that there never has been offered at auction in the United States the equal of this number of strictly first-class imported draft mares. All the mares will positively be sold without reserve or by-bid. Write for catalog.

Wish to announce that O. P. Hendershot will sell at auction at the Fair Grounds at Lincoln, the day following this sale, 60 head of American bred Percheron stallions and mares.

F. M. Woods, Auctioneer.

Daniel Kelly & Son,
Lincoln, Nebraska



O. P. HENDERSHOT'S
Eleventh
Annual
Sale

LINCOLN, NEB.,

DECEMBER 30,

- 40-Imported and Home Bred Percheron Mares-40**
- 20-Imported and Home Bred Percheron Stallions-20**
- 5--Kentucky Mammoth Black Jacks--5**

The above are a clean, well bred lot of Percherons with extra heavy bone, good feet, strong loins, fine style, big drafty horses. Just about the best to be found, I think. They are not fat, just right to go to work and bring a good colt next spring. If you come to my sale and are not satisfied with the quality and size of my stock, I will pay your railroad fare both ways. For catalogue address

O. P. Hendershot,
HEBRON, -- NEBRASKA

Auctioneers—Cols. Woods, Branson and Page.

Daniel Kelly & Son will sell Imported Percheron, Belgian and Shire mares the day before my sale at Lincoln, Neb. Write him and mention my notice.





ARE YOU LOOKING FOR A FIRST-CLASS STALLION?

If so, call and inspect our horses. The cut shown above is a kodak picture of some of our Percherons and Belgians. We now have 100 head of Percherons, Shires and Belgians in our stables, ranging in age from 2 to 5 years. They are the low-down, heavy-boned kind with lots of quality. Our prices cannot be duplicated, breeding and quality of horse considered. Our 60 per cent breeding warranty is as good as a Government Bond. Write today for our new catalog, stating your wants. It will show you a large number of actual photographs of horses now in our barns. Do not delay, but write today. On December 29th, 1909, Daniel Kelly & Son of Lincoln, Nebr., will sell at Public Auction, 24 head of Imported Percheron, Shire and Belgian mares. This sale will take place at our barns. F. M. Woods, Auctioneer.

WATSON, WOODS BROS. & KELLY CO., Lincoln, Neb.



L. R. Wiley & Sons, Elmdale, Kan.

IMPORTERS AND BREEDERS OF

Percherons, French Draft, Shires and Coachers

We have just landed 25 more stallions of the ton kind on our ranch. And just one word with you, Mr. Buyer, if you want a first-class stallion or mare either imported or American bred and will come and inspect our horses, if you don't think you have found the best bunch of horses in the state of Kansas and our prices the lowest considering quality, you are getting, we will pay your expenses here and back to your city. All of our horses are bought and personally selected by us and can save you big money; you to be the judge. Write for our prices and terms before buying elsewhere.

Draft Stallions and Mares

Imported and Home Bred Registered Percherons, Belgians and Shires.



We have over 200 young stallions and mares. All will make ton horses and we will guarantee satisfaction in quality and price. 60 per cent guarantee on stallions and mares guaranteed breeders. Come and see. Send for catalog.

NORTH & ROBINSON, Grand Island, Neb.,

ROBISON'S PERCHERONS



Do not forget my tenth annual sale of sixty registered Percheron stallions, mares and colts at fair grounds, Wichita, Kan., February 15, 1910.

This offering will be up to the high standard of the Robison Percherons. The sale will include six imported stallions, twenty American bred stallions, twenty mares bred to Casino. Mares and colts sired by Casino.

Send for catalog and mention the Kansas Farmer.

J. G. ROBISON, Towanda, Kansas



Percheron Stallions

50 head for sale of the ton size and show quality, from yearlings to five years old, prices from \$300 to \$1000. All stock registered and guaranteed of the best breeding. Every horse sold sound. Also have a few matched pairs of 2-year-old fillies priced \$300 and up. Come and see me.

J. W. BARNHART, Butler, Mo.

HOLLAND STOCK FARM

IMPORTERS AND BREEDERS OF

Percheron and German Coach Stallions and Mares

The largest collection of extraordinary stallions and mares in the southwest. A superior lot of two and three year old Imported Percheron stallions of the popular colors, black-grays and solid blacks. The most selected herd of Imported Percheron mares in America. Young registered American bred Percheron stallions and mares. Imported German Coach stallions of superb action and beauty. Our Percherons are of superior quality and finish, possessing great size, heavy bone, vigorous action and breeding, tracing to the most noted sires and dams of France. Our mares are all producing mares, acclimated, broken to work safe in foal and in the very best of condition. We will supply you with an extraordinary stallion or mare for less money than others, and only wait the opportunity to prove our statements by having you make us a visit and see the horses for yourself. Our prize winning stallions and mares for your selection at very reasonable prices and the very best of a guarantee. The best Percheron stallions and mares. The best German Coach stallions and mares.

Springfield,

CHAS. HOLLAND, Prop.,

Missouri.

FOR SALE AT RIVERSIDE STOCK FARM.

5 Percheron Stallions from 2 to 5 years old, 5 Percheron mares from 15 months old to 5 years old. All colors good. All registered and breeding guaranteed. A fine young registered Shorthorn Herd with Royal Gloaster at the head, a pure Scotch bred bull. I will trade this herd on a good farm. Come and see my stock, or write.

Chapman,

O. L. THISLER & SONS,

Kan.



Imported Percheron Mares and Stallions

For sale, several nicely matched teams of two and three year old Imported Percheron mares, bred, black and grays. Several extra good two and three year old Imported stallions. We handle only the best. Come and see us.

J. A. FEE & SONS, STAFFORD, KAN.

PERCHERONS, SHIRES SADDLES and JACKS



23 registered jacks and jennets, 12 registered Percheron stallions and mares, 1 Imp. English stallion, 1 comb. harness and saddle stallion. Good stuff and at prices that will move them.

FRED POOS, Kansas.

SPRING VALLEY FARM



Headquarters for Big Stylish Mammoth Jacks. Some extra good ones of serviceable age for immediate sale. Prices consistent with quality.

L. T. SUTER

Box 82, Palmyria, Mo.

JACKS FOR SALE



WE have at all times a good supply of Jacks from 14 1/2 to 16 hands high. Buy one this fall and save money. Thirty head to select from.

All Guaranteed.

PETTY BROS., SEDALIA, MISSOURI

STALLIONS AND JACKS.

One 4-year-old Belgian stallion. One Percheron stallion. One standard bred stallion. One eight-year-old extra good black jack, mealy points, guaranteed all right and a good breeder. All these stallions are registered and will be sold at a bargain if sold soon. Will trade for good land. Come and see me.

L. H. HEDGES,

Chase, Kan.

FAIRVIEW JACK AND JENNET FARM

Registered Mammoth Jacks and Jennets for sale cheap, at all times quality considered. They have big bones, big heads and ears, and breed big mules. They are Missouri jacks—the best that grow—14 1/2 to 16 hands high. A big lot to select from. Everything guaranteed as represented. Established 1892.

J. C. HUCKSTEP, Proprietor, EOLIA, MO.

75 HEAD JACKS AND JENNETS

All ages up to seven years old. Guaranteed as represented and priced reasonable. Special prices for fall trade. Come and see me.

PHIL WALKER, KANSAS.

I HAVE THE LARGEST JACKS IN THE WORLD,

in both imported and home bred. I have sold over seven hundred jacks from my farm here and they have sired and are siring the best mules in the United States. My prices are lower than any other man on earth for good, first-class jacks. Let me show you before you buy.

W. L. DeCLOW, Cedar Rapids Jack Farm, Cedar Rapids, Ia.

DUNHAMS' PERCHERONS

Fourth large importation within the year arrived November 28rd, which, added to our present stock, offers intending purchasers the finest collection in America. If you want the best horses, horses with bone, quality, size, action and best breeding stallions or mares; if you want fair and liberal treatment; if you want lowest prices consistent with good merchandise, visit Oaklawn. Catalog shows the place and the horses.

W. S., J. B. & B. Dunham, Wayne, Ill

JACK SALE

33RD ANNUAL SALE

Limestone Valley Farm

TUESDAY AND WEDNESDAY,

March 1 and 2, 1910



100 Head High Class Registered Jacks, Jennets and Saddle Horses.

20 head of the best aged jacks that you ever saw together; 20 head of the best breeding jennets that you ever saw together, and now in foal to the World's Grand Champion Jack, Orphan Boy 696. 40 head of the best young jacks and jennets that you ever saw together, sired by the two greatest jacks in the world, Limestone Mammoth 298, and Orphan Boy 696.

20 HEAD HIGH CLASS REGISTERED SADDLE HORSES.

We live in Missouri and are ready to "show" you, and if you will come and see and we do not make good, we will pay your expenses and we do not care what part of the world you come from—a proposition made by no other breeder or dealer in the world.

Farm two miles north of Smithton, main line Missouri Pacific railroad, and six miles east of Sedalia, Pettis County, Missouri, main lines Missouri Pacific and M., K. & T. railroads.

A special train from Sedalia to Smithton and return each day of sale. Free conveyance from Smithton to sale. If interested, please write for illustrated catalogue, as we can send catalogues to only those who write for one.

We shall be pleased to have you attend. You will not be disappointed, but highly pleased.

L. M. Monsees & Sons,

SMITHTON, PETTIS CO., MISSOURI.

35 Jacks & Jennets 35

Few good Percheron and saddle Stallions. Jacks 14 1/2 to 16 hands and the very largest that can be found. 40 miles K. C. on U. P. and Santa Fe.

Long distance phone
AL E. SMITH, Lawrence, Kan

REGISTERED MAMMOTH JACKS. Jacks, jennets, saddle horses, trotting and pacing stallions; 250 head to select from. Catalogues now ready.

J. F. COOK & CO., Lexington, Kentucky.

For Sale

27 Missouri Mammoth Jacks and jennets, 3 stallions and Hereford cattle.
J. T. Watson New London, Balls Co., Mo.



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Why Pay Rent

At from \$3.00 to \$5.00 per acre when you can buy land from \$8.00 to \$15.00 per acre that has produced 20 bushels of No. 1 wheat from land that was broken the previous winter. Same land has produced 30 bushels of good corn on spring breaking. On old land as much as 50 bushels of corn per acre. Over \$80.00 per acre realized from crop of potatoes on \$15.00 land. \$50.00 per acre from crop of broom corn raised on new breaking. Alfalfa successfully raised. I have thousands of acres for sale in Lincoln county, Colorado. Hugo is the county seat. This is the finest body of good agricultural land in America now for sale at low prices. Excellent markets. The best of water at a depth of from 10 to 50 feet.

DO YOU KNOW OF ANY SAFER INVESTMENT

or one that will bring greater returns on the money invested than the lands I offer? For further particulars call on or write

A. S. Mitchell, the Land Man,
Hugo, - - - Colorado

Colorado Land Snaps

Colorado is strictly in the limelight. Now is the time to buy for the certain rise in prices. We quote:

4,600 acres, fair ranch improvements; running streams; shallow water for domestic use or irrigation by pumping; level land; excellent soil; at only \$8 per acre; half cash. Better investigate this if you want a big buy.

3,400 acres, sub-irrigated; water shallow and easily raised to the surface for ditch irrigation, and plenty of it; level land and good soil; only 25 miles from Denver. \$15 per acre.

1,280 acres, nice level land; 2 1/2 miles from main line railroad station; \$8.50 an acre; easy terms. This will sell for double in two years.

320 acres, six miles from Denver, and 160 acres four miles from Denver, at \$15 an acre. Better investigate these.

160 acres, four miles out; level, sandy loam; fenced one side; a great big bargain at \$15 per acre; won't last long.

170-acre improved valley farm, \$6,500.

470-acre improved mountain farm, \$3,000.

Three fruit farms in the justly celebrated Faonia section of Delta county, Colorado; sure crops of the finest fruit raised anywhere in the world; frost does not bother; water rights A-1; fair improvements. One man owns all these three places, is getting old and wants to sell, and in order to do so makes prices just one-half less than neighboring places are selling for. Eighty acres, 1,000 four-year-old Jonathan apple trees; berries, grapes, currants, gooseberries; 18 acres alfalfa; 13 acres grain land; oak grove around house; running spring that supplies kitchen and milk-house; price, \$10,000; half cash; balance, easy. Eighty acres, 350 Elberta peaches and 125 Jonathan apples, 3 years old; 487 winter variety full-bearing apple orchard; 3 acres alfalfa; price, \$6,000. One hundred and sixty acre ranch, 1,500 apple trees—mostly Jonathans, over one thousand Elberta peaches, various other kinds of fruit and berries, alfalfa, etc.; 2 sets farm improvements; some live stock and farm implements with this place; price, \$15,000, which is less than \$100 per acre. Unimproved land, under water, in this section is worth \$150 to \$200. If you want a fruit farm investigate these quickly. Write or call on

IRVIN L. RICHARDS

405 QUINCY BUILDING DENVER, COLO.

CALL OF THE WEST

Why do you rent? Why give the best years of your life working for others? Own your own farm—you can do it on payments less than the rents you are now giving.

BE INDEPENDENT—DO IT NOW.

We have plenty of choice, smooth, fertile lands, such as are now producing from 25 to 45 bushels of wheat per acre and yield abundantly of corn, alfalfa, oats, potatoes and other crops, we can sell you at from \$10 to \$25 per acre on good terms. Write us at once for information as to the splendid opportunities for investment in lands, both irrigated and irrigable, or choice farming uplands. These lands are in Logan and Weld counties, and the famous Crow Creek Valley.

THE BEST OF NORTHEASTERN COLORADO.

Act now and get the benefit of the rapid rise in values. Some good homestead lands subject to filing.

THE WESTERN LAND CO.

Sterling, Colorado.

Kiowa County, Colo., Land.

2,000 acres of choice wheat land offered in quarters and half sections. On line of Mo. Pac. R. R., close to three good towns.

Prices range from \$5.00 per acre upward.

Write for terms and descriptions.

ALBERT E. KING, - - - McPherson, Kansas

320 a. Homesteads Choice farm and ranch land bargains in Washington Co. Write or see Sigel Johnson, Akron, Colo.

IRRIGATED FARMS.

Prowers county, Colorado, offers the best opportunities to the homeseeker of moderate means. Write for information and prices of farms.

J. B. TRAXLER, LAMAR, COLO.

IRRIGATED LANDS in the famous South Platte Valley of Colorado. Fine 160 under the old ditch. Price \$160.00 per acre. Owner will guarantee \$15.00 per acre cash rent. Fine 160, all in alfalfa, \$100.00 per acre. Will rent for \$10.00. Fine one-half section at \$75.00 per acre. We have a number of good quarters from \$30.00 to \$40.00. We have some fine propositions for exchange for business blocks or general merchandise. We also have some fine tracts of cheap land, ranging in price from \$10.00 to \$20.00 per acre for colonizing. Raise fine crops under the Campbell system of farming. Write us for prices and literature.

CASTLE & WYCKOFF LAND CO.,
Fort Morgan, Colorado.

320 ACRES DEEDED LAND.

Perfect title; under one of the largest storage irrigation projects in Colorado, near good town, land is very smooth, and soil of great depth. Price \$40.50 per acre, with good water right. Easy terms.

BELL & WHITE,

Lamar, Colo. Civil and Irrigation Eng'rs.

WE SELL THE BEST IRRIGATED LANDS.

At \$40 to \$80 an acre up, according to improvements, within 2 to 4 miles of shipping point, these prices include perpetual irrigation water rights deeded with the land, good title to both land and water or no sale. For further particulars write or see

THE GEO. A. WATSON LAND CO.,
Lamar, (Established 1886) Colo.

ROCKY FORD BARGAIN.

160 acres irrigated farm, 2 miles from Rocky Ford, good soil, easily cultivated, all in crop, 40 acres alfalfa, new 8-room house, complete outbuildings, R. F. D., telephone. Price, \$135 per acre. Good terms. Write or see

THE ROCKY FORD REALTY CO.,
208 S. Main St., Rocky Ford, Colo.

BIG CROPS Grown on Eastern Colorado Land

1500 farmers settled in Cheyenne county recently. The county is fast settling up. The investor should buy now. The homeseeker should secure a home while LAND CAN BE BOUGHT AT
\$10 to \$15 an Acre on Easpt Terms.

Modern School Facilities. High School and Manual Training.

Cheyenne Wells, the county seat of Cheyenne county, is keeping pace with the development of the county. Just completed a \$30,000 court house and a \$15,000 high school without bonding the county.

Telephone System. Rural Free Mail Delivery.

A County Agricultural Society was formed last spring and a very successful fair was held this fall.

Come and see the crops grown on this cheap land.

A trip to Eastern Colorado is always pleasant, especially so in winter. Delightful weather, pure water.

Land is selling rapidly and prices will advance fast. For further information write

The Cheyenne County Land Co.,
CHEYENNE WELLS, COLORADO.

Colorado Lands and Sunshine

If you are looking for a home, investment or health, where the climate is perfect, where there is best class of people, churches, schools and no saloons, where there are thousands of acres of choice land coming under irrigation and selling very cheap, you will do well to write us for new printed matter on Morgan county, Colo. Address
THE B. W. JACKSON REALTY CO.,
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45 BUSHEL WHEAT LAND, \$25 PER ACRE. We own and control 20,000 acres of Cheyenne county, Nebraska's, choicest farm land, now on the market. The heaviest crop yielding county in Nebraska for ten years. Alfalfa also a leading crop. Write for folders and full particulars. Agents wanted everywhere. Write for our proposition at once. Railroad fares refunded if things not as represented. FUNDINGSLAND & SEVERSON, Sidney, Nebraska.

TWO SPLENDID FARM BARGAINS. 400 acre farm in Red Willow county, Neb., 2 1/2 miles from McCook, good 8 room house, good barn and other good improvements; 160 acres choice valley alfalfa land, 55 acres now growing, 100 acres bottom and 40 acres upland, cultivated, balance pasture; well watered, some timber and abundance of choice fruit trees bearing. Actual value of land over \$20,000, but belongs to non-resident, who will take \$16,000 if sold soon—only \$40 per acre. Act quick; don't miss this. 580 acres 12 miles from McCook, 7 miles from Troyer, Kan.; 400 acres choice, smooth farm land, balance good pasture, half cultivated, slight improvements. A splendid bargain at \$16 per acre. For other snaps in farm and ranch lands write or see ACKERMAN & STEPHENS, McCook, Neb.

CHASE COUNTY, NEBRASKA. Farms and Ranches for Sale. Ranches from \$15 to \$12.50, good level farm lands from \$15 to \$30 per acre, where wheat makes from 15 to 40 bushels per acre and corn from 20 to 50, hog cholera unknown, the undersigned has lived here 2 years and can prove the above statement to be facts. We have the lands for sale and automobiles with which to show it. All inquiries answered. Mention this paper and call on or address BONNER & JOHNSTON, Imperial, Neb.

ALFALFA FARMS, DUNDY COUNTY. 160 acres creek bottom, running water, rich soil; 100 acres will grow alfalfa, 6 mi. to town, house, cave, ice house, barn, sheds, \$25.00 per acre. 100 acre valley farm, black soil, 2 mi. Benkelman, new house, barn, sheds, well, under fence, 30 acres will grow alfalfa, irrigation ditch on land, \$30.00 per acre. 320 acres improved, divide farm, \$20.00 per acre. R. D. DRULNER, Benkelman, Nebraska.

26 1/2 acre farm, in Franklin Co., Neb., 9 1/2 mi. from Bloomington, Co. seat. About 200 acres choice bottom, alfalfa and corn land. 60 acres good pasture, fair improvements, fine spring, never falling water, from hill, 30 feet above level of house and barn and 45 feet above level of balance of farm land. One of the most ideal farms and best bargains to be found. Price only \$16,000. Choice 1280 a. ranch, well improved. Several quarter section and larger and smaller farms that are bargains. For information see or write Wm. Anderson, Franklin, Neb.

Table listing various agricultural topics and their page numbers, including sections for 1909, Cow testing, COW-PEAS, COWS, CREAM, CROPS, CURRANT, DAIRY, ENGLISH, FAIR, FARM, and DISINFECTANTS.

OKLAHOMA LAND

A SNAP

160 acres, 5 miles of Ponca City; 110 acres in cultivation. \$6,000 if sold in 30 days. TRUMBLY & BARRETT, Ponca City, Oklahoma.

"SNAPS" IN GRANT CO., OK. 160 a., 7 1/2 miles of country of railroad town, 110 a. seat, 6 1/2 miles pasture and meadow in cultivation, balance hay and pasture. Price \$25 per acre. For further particulars, write LEFORCE & BADGETT, Vinita, Oklahoma.

800 BUSHELS CORN GOES with 310 acres of the very best land for stock and grain farm in Craig county, near Vinita, Oklahoma. 160 acres in cultivation; balance hay and pasture. Price \$25 per acre. For further particulars, write LEFORCE & BADGETT, Vinita, Oklahoma.

MISSOURI LAND

FARMS FOR SALE in South Missouri. I have several good farms for sale on easy payments from \$5 to \$10 an acre. Please write me for full particulars. WILLIAM BOWEN, Houston, Missouri.

HAMPSHIRE SWINE

Oldest herd in the West. 30 boars of serviceable age. Also bred sows and gilts. W. F. DAVIS, So. St. Joseph, Mo.

BERKSHIRES

BRADBURN BERKSHIRES. Pigs, high-class in quality and breeding. H. B. Cowles, Topeka, Kan.

RIDGEVIEW BERKSHIRES. 2 herd boars for sale. 1 two-year-old by Forest King, other males of different ages. Sows and gilts open. MANWARING BROS., Lawrence, Kansas.

BERKSHIRE BOARS AND GILTS. for sale. Long bodied, smooth spring pigs. The best breeding and excellent individuals. No culls shipped. Visitors welcome. J. M. NIELSON, Marysville, Kansas.

SAVE YOUR HOGS. By using the Ridgway Treatment against Cholera. Guaranteed to make your hogs cholera proof for life. Write today for circulars. Address ROBERT RIDGWAY, Amboy, Ind.

BERKSHIRES—OVER 250 HEAD. To select from. Choice boars and females of various ages. Baron Duke 7500 and Masterpiece 77000. Spring pigs for sale. We guarantee satisfaction. Write LEON A. WAITE, Winfield, Kan.

MR. FARMER. You need a Berkshire boar—buy a good one; it pays. We are offering 50 big boned, growthy fellows ready for business, weighing 125 to 250. Every one a good one. No culls. Order today and get first choice at special prices, \$20, \$25 and \$30. Satisfaction guaranteed. SUTTON FARM, Lawrence, Kansas.

NEW YORK VALLEY HERDS BERKSHIRES AND SHORTHORNS. 25 years' experience with these breeds. Sows bred to and sired by Field Marshal 103300 and Lee's Masterpiece 99715. Young stock for sale. 50 spring and summer boars and gilts at \$25 each; two extra fancy herd leaders at \$50 each. Bred sows and gilts from \$35 to \$100 each. Write your wants. Visitors always welcome. J. T. BAYER & SONS, Yates Center, Kansas.

THE STRAY LIST

Stafford County—J. B. Kay, Clerk. CATTLE—Taken up, November 9, 1909, by George Lightner, in Cleveland tp., one red yearling heifer, ears have been frozen; valued at \$10. One red steer, short yearling, no marks or brands; valued at \$5. Greenwood County—W. O. Blackburn, Clerk. STEER—Taken up November 8, 1909, by W. P. Kirk, in South Salem tp., one red 4-year-old steer, branded on left thigh; valued at \$40. Chautauqua County—Edgar Randall, Clerk. STEER—Taken up, October 24, 1909, by W. H. Walker, in Center tp., one red yearling steer; valued at \$20. Barton County—C. F. Younklin, Clerk. STEER—Taken up, November 23, 1909, by Henry Dunekack, in Clarence tp., one red steer, weight about 800 lbs., both hind feet white, tip of right ear cut off.

KANSAS LAND

RANCH PROPOSITION. 1,760 acres smooth land, 9 1/2 miles Dighton, small improvements, 600 acres cultivated, a bargain at \$10.50 per acre; might give some terms. WARREN V. YOUNG, Dighton, Lane Co., Kansas.

CLAY COUNTY FARMS. If you want a choice farm or stock ranch at prices ranging from \$25 to \$75 per acre, call on or address ERNEST PINKERTON, "The Pioneer Land Man," Clay Center, Kansas.

BARGAIN. 400 acres near Hutchinson, Kan., very best in Reno county, \$67.50 per acre. Imp. worth over \$6,000; best of wheat, corn and alfalfa land, easily worth \$100 an acre; good terms. McDERMED & GETTER, Hutchinson, Kansas.

REPUBLIC COUNTY LAND. Good farms of all sizes, good property in good thriving town. Stock of general merchandise for sale or trade. Good little farm of 64 a., 1 mile to town, some timber, living water, fine farm for men that don't want to farm much. F. J. GEORGE, Wayne, Kansas.

PURE HONEY. Extracted in cans of 60 lbs. net amber \$7.80, white \$9. Comb honey in one lb. sections. Send for price list. Nothing but genuine bees' honey. Reference, Kansas Farmer, The Arkansas Valley Aplanies. CHEEK & WALLINGER, Los Animas, Colorado.

BARGAINS IN ALFALFA FARMS. 160 acres, 6 miles from Eldorado, Butler Co., Kan. R. F. D. and telephone, 90 acres first class corn and alfalfa land, 40 acres alfalfa fenced hog tight, 10 acres timber, balance pasture, good orchard, good well and wind mill, house, barn and outbuildings are good and new. Price \$75 per acre. 320 acres joining above, similar land, 60 acres alfalfa, improvements first class and new. Price \$65 per acre. L. L. KISER, Eldorado, Kansas.

McPHERSON COUNTY BARGAINS. 80 acre good farm, 5 1/2 miles from Lindsborg, 55 acres cultivated, balance in pasture and meadow, good corn land, small house, barn and other buildings. Possession any time. Price \$4,500; terms, 240 acres 4 miles from town, 130 acres cultivated, balance pasture and meadow, good water, 2 story house, barn, granary, other buildings, orchard. Price \$9,500. Write for particulars and list. JOSEPH A. BRANDT, Lindsborg, Kansas.

TWO FARMS MUST SELL. 40 a. near Garnett, Kan., good land, improvements and water, R. F. D. and telephone, 3/4 mi. to school. 120 a. close to Ottawa, Kan., fine land, 7 room house, natural gas, good barn, etc., 40 a. hog tight, good water, close to school and church, R. F. D. and telephone. We have a large list of farms for sale cheap. If you want a farm clip this ad and come. Car fare refunded to purchaser. MANSFIELD LAND CO., 204 S. Main, Ottawa, Kan.

\$3,000 CASH. Balance by owner, buys good 160 acre farm 3 miles from Arkansas City, Kan. 320 fine bottom farm at \$55 per acre. 160 all hog tight, good farm at \$50 acre. 240, most all Walnut river bottom, don't overflow, fine farm at \$60 per acre. Ask for our thirty page land list. WM. GOBBY CO., Arkansas City, Kansas.

OTTAWA COUNTY FARM BARGAINS. 320 acres, 1/2 mile out, 35 or 40 acres creek bottom, 170 acres in cult., 6 or 8 acres alfalfa, balance pasture, part of which could be farmed; good 6 room house, fair barn, good granary, well with good water, nice young orchard, living water in pasture, fenced and cross fenced, over 100 acres in wheat, 1-3 goes. A bargain at \$40 per acre. Nice 80 acre farm, 4 miles out, improved, all in cult., nice nice, cheap at \$2,800. 160 acres, improved, 6 1/2 miles out, at \$4,800. We have others. Come or write. SHEPARD & HOSKINS, Bennington, Kansas.

SEED CORN. Plant Young's Yellow Dent seed corn, the best on earth. Won Missouri's gold medal at National Corn Show, Omaha, 1908. Guaranteed 90 per cent germination under all conditions, or will fill order again free of charge. Price \$2 per bushel. Sample ears 50 cents each. Sample free. Choice Poland China fall pigs, \$25 each. One Jersey bull calf for sale. R. F. D. 5, ROBT. I. YOUNG, St. Joseph, Mo.

CATALPA SPECIOSA GUARANTEED. To be pure seed gathered under our direction. Examined by the U. S. Agricultural Department and found to be pure. Copy of their letter and catalpa facts in illustrated booklet mailed free. Write for same. THE WINFIELD NURSERY CO., Winfield, Kansas.

FOR SALE TO PLAT. 55 acres adjoining Wichita City limits, that will sell for \$100 a lot; 8 2-3 lots to the acre. This will be \$875 per acre. We will sell it for \$125 per acre for the next 20 days, and 2,600 acre well improved ranch in Meade Co., per acre \$16. J. F. BELLEW & CO., 110 Main St., Wichita, Kan.

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 prices, address the Secretary of the Commercial Club, Topeka, Kan.

Table listing various farm-related topics and their page numbers, including 'Farm questions', 'Future delivery', 'Games', 'Garden', 'Gas', 'Gasoline', 'Germs', 'Glanders', 'Gophers', 'Grain', 'Grange', 'Grape', 'Grapes', 'Grass', 'Grasses', 'Green Bug', 'Hedge', 'Hedge trimming', 'Hedges', 'Helfer', 'Hemp', 'Hen', 'Hens', 'Hereford', 'Hessian Fly', 'Hired man', 'Hog', 'Hog cholera', 'Hog feeding', 'Hog market', 'Hogs', 'Hogs and alfalfa', 'Hogs, Alling', 'Hogs, Alfalfa and corn', 'Hogs, A ration for fattening', 'Hogs and cottonseed-meal', 'Hogs, Cheapest ration for fattening', 'Hogs for market, Breeding', 'Hogs at the International, June 26', 'Hogs, breeds of, Kind of feed', 'Hogs after steers', 'Hogs clean by nature', 'Hogs, Erub's corn diet for', 'Farms', 'Farming', 'Farms and the banks in Kansas', 'Farmers', 'Farms, Assistant', 'Farmers and crop reporters', 'Farmers, Uncle Sam's help for', 'Farmers want no unskilled hands', 'Farmers' business is desired by banks', 'Farmers' institute, Of interest to', 'Farmers' institutes 1909-10', 'Farmers' institutes for women', 'Farmers' meetings to begin January', 'Farmers' week in Kansas capital', 'Farmers' week in Missouri', 'Farming at the western end of Kansas', 'Farming calls for best effort', 'Farming, Intensive', 'Farming on South African border lands', 'Farming, Show, June 12', 'Farming rules, Good, Nov. 6', 'Farming, Successful, May 22', 'Farms, Farmers get rich and neglect their', 'Farms, Value of wealth produced on', 'Fat', 'Feed', 'Feeding', 'Feeding floor for hogs', 'Feeding heavy this year', 'Feeding, Profitable, July 3', 'Feeding, Keep, Oct. 30', 'Feeding stuffs law, An explanation of the', 'Feeding stuffs per quart, Weight of', 'Feeding, Study economical, Nov. 13', 'Feeds', 'Fence', 'Fertility', 'Fertilizer', 'Fireless cooker', 'Fireless cooker, Some toothsome recipes for the', 'Fireproof buildings', 'Fish', 'Flag', 'Flax', 'Fleas kill young stock', 'Fly', 'Fly repellent', 'Flies', 'Foods', 'Foreign commerce', 'Forest', 'Forestry', 'Fruit', 'Frost', 'Fruits', 'Future'

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KANSAS LAND

MARION, MORRIS AND DICKINSON county, Kansas, lands. Bargains in improved farms at prices ranging from \$45 to \$80 per acre. Write for big list. T. C. COOK, Lost Springs, Kan.

COWLEY COUNTY FARM. 160 acres, good six room house, about 80 acres bottom, never failing water, 12 acres alfalfa, 60 acres corn, close to school and church. Price \$7,500. Terms if desired. R. A. GILMER, Arkansas City, Kansas.

BUY A HOME CHEAP. We are showing lands in the Lost Mountain section of Canada at prices ranging from \$10 to \$20. Low excursion rates twice a month. Write for full information. NELSON BROS., Clyde, Kan.

200 ACRES IN Marshall County, Kan., three-fourths mile from town, 100 acres in second bottom land, 160 acres in cultivation, balance pasture, 7-room house, cellar, small barn, cattle shed, hog house, orchard, well and windmill. A bargain at \$90 per acre. Good terms. SUMMERFIELD REALTY CO., Summerfield, Kan.

REPUBLIC COUNTY LAND. 25 farms in this county for sale, ranging in prices from \$50 to \$75 per acre. Choice corn, wheat and alfalfa land bargains. Write for information, or call on J. G. HELWICK, Belleville, Kansas.

EASTERN KANSAS FARM BARGAIN. 166 a., 3 1/2 miles from town, 75 a. cultivation, 2 a. orchard, balance native grass, 5-room house, good cellar, barn for 8 horses with loft, other outbuildings, good water, close to school, R. F. D. and phone. Farm on main traveled road. Price \$45 per acre. For particulars write J. C. RAPP, Osage City, Kan.

44,000 ACRES. Just put on the market in Texas, close to the Simmons property, lays fine and a black sandy loam. We will sell the entire tract for \$10 per acre. A fine colonization proposition for some one who can handle this tract. 160 acres, 2 miles from a good town in McPherson county, Kansas, well improved, 100 acres under cultivation. Price \$5,500. Fifteen quarters in Hodgeman county, fine for a ranch. Price \$7.50 per acre. CHAS. PETERSON, 18 1/2 N. M. St., Hutchinson, Kan.

BARGAINS For CASH or TRADE

Of all kinds direct from owners of farms; ranches, mdse., hardware, hotels, livery barns. Send for our book of trades or cash list. BERSIE REAL ESTATE AGENCY, Eldorado, Kansas.

BEST FARM IN KANSAS. 560 acres bottom valley land, all smooth, fine, black sandy loam, no waste land, small orchard, 20 acres fine alfalfa land, new 10-room house, hot and cold water, lighted with acetylene gas, bath and toilet, 500-barrel cistern, sewer system, R. F. D., telephone, 5 1/2 miles to two railroad towns. Price \$65 per acre. For further particulars write NEAL A. PICKETT, Arkansas City, Kansas.

MR. TENANT, QUIT PAVING RENT! 160 a. located 6 miles east of Independence, 2 miles from street car line, 50 a. in cult., balance in meadow and pasture, two good springs, 6-room house and barn for 6 horses, good school and church just across the road. Only \$35.00. Terms if desired. ROSS DEFENBAUGH, Independence, Kan.

BARGAIN. 160 acres, 100 acres in cultivation, 10 acres hog tight, balance grass; timber for wood and posts; 7 room house; barn 20x60; wagon, implement and cattle sheds; corn crib; well and cistern; nice shade; 6 1/2 miles from Climax; school 1/2 mile; R. F. D. Price \$30 per acre, worth \$40; can carry \$2,500. G. K. JACKSON LAND CO., Eureka, Kansas.

BOURBON COUNTY FARM BARGAINS. 160 acres, 4 miles north of Fort Scott, Kan. 65 acres in cultivation. 40 acres wild and tame meadow. 55 acres pasture, practically all tillable, good 5 room house, barn, abundance of water, near school and R. F. D., telephone. Small orchard and grove. Price \$50 per acre. We have others. Write for list. MURPHY & SIMPSON, Fort Scott, Kansas.

AN EXTRA FINE FARM. 240 acres, 1 1/2 miles from shipping station, 5 miles from good town, on R. F. D. and telephone, 140 acres under cultivation, 100 acres in pasture, land in extra fine condition. Large house, large cattle barn, 40x52, large horse barn 40x50, all new. Fine young orchard 2 acres of timber. Lots and all fenced in best condition. Price \$50 per acre. T. F. COLLINS, Harris, Kansas.

SEDGWICK CO. FARM BARGAIN. For Sale: 480 acre farm, level dark soil, 300 a. in cultivation, 180 a. in pasture. Good 11 room house, large barn 32x56 ft., also good tenant house and barn, close to good market town and 18 miles of Wichita. Price only \$24,000, \$8,000 cash will handle this, balance at 6 per cent interest 5 years. BEATTY REALTY CO., Opposite Post Office, Wichita, Kan.

ROOKS COUNTY LAND

One Hundred Farms for sale. Write for lists. G. H. DEWEY, Stockton, Kan.

QUICK BARGAIN. 320 near station on Santa Fe, all fine, tillable upland, fair set of improvements, well worth the price, \$40. 120 near church, school and store, \$5,000. Write or call and see us. H. L. DWELLE & CO., 528 Commercial St., Emporia, Kan.

KANSAS LAND

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 us for a proposition on our own ranches.

FRIZELL & ELY, Larned, Kan. EASTERN KANSAS PASTURE LAND FOR SALE.

Consisting of 480 a. all fine soil, well watered and fenced with four wire fence, in good repair. Located 4 miles Onaga, Kan. About one-third would make excellent farm land, balance the very best of pasture. For quick sale at \$25 per a. with terms.

C. E. TINKLIN, Corning, Kansas.

NESS COUNTY LAND.

320 acres 10 miles from Ness City, 100 acres in cultivation, 4 room frame house, barn, well and windmill, some good alfalfa land, place is all fenced, land lays good and in good locality. Price \$16.00 per acre; \$2,000 cash, three to five years time on balance.

LOHNES & CASON, Ness City, Kansas.

SCHUTE & SHINEY, the Rush county Kan. real estate hustlers, 30 years in the same old place. Good farmers raised from 26 to 47 1/2 bushels of wheat per acre here last season. We can sell this land at from \$20 to \$35 per acre. Good improved ranch land, 1/2 good farm land, at \$15 per acre. Good bottom land not over 5 miles from market at \$25 to \$35 per acre. Well improved and running water, plenty of timber. See us, or write us at La Crosse, Kan.

Sumner Co. Kansas Land for Sale

Wheat, oats, corn, alfalfa and hogs. All kinds of fruit and berries do fine. Abundance of water. Fine climate. Farmers get rich here; so will you. Prices \$30 and up. Write us, information free. List your stock of merchandise for exchange.

H. H. STEWART & SONS, Wellington, Kansas.

HERE IS THE BIGGEST SNAP OUT.

160 acres, 3 1/2 miles northeast of Fredonia, Kan. Good 1 1/2 story farm house with 5 rooms. Good barn 24 by 30. Land well fenced with hedge and wire. Two acres orchard. 85 acres in cultivation, 70 acres pasture. Balance in meadow, part of which is tame grass. Land is well watered by two branches, 3 wells and one cistern. Land slightly rolling and one of the best bargains in Wilson county at \$35 per acre. It is a splendid home and nicely located. Write me about this.

C. R. CANTRELL, Fredonia, Kansas.

Buy Western Kansas Land.

Should you want to buy any Western Kansas land for speculations or for a home, don't fail to write me. I am selling land throughout all counties in western Kansas. I am myself farming extensively on the kind of land I offer for sale. I can sell you land that will make you money. Write me at once for prices. Address

EUGENE WILLIAMS, Minneola, Kansas.

Good Bargains

Six room house. Eighty acres of valley land, balance good mow land and good pasture and orchard for family use. Price \$4,000. And I have several other good 80-acre and 160-acre and so on up to 640 acres, and several large ranches. WM. FORBES, Fall River, Kan.

AN IDEAL FARM FOR SALE.

Kansas farm of 300 acres, adjoining a flourishing railroad town, forty miles west of St. Joseph, Mo. The soil, naturally rich, has been made more fertile by twenty years of judicious crop rotation, and by the liberal application of manure; well watered, fine walnut timber, finest blue grass pastures, alfalfa, timothy and clover meadows; finest corn and wheat land; well fenced; hay, cattle and horse barn for a large amount of live stock; large silo, water tanks, granary, fine mill, etc. A model stock or grain farm, ready for use. An excellent opportunity. For complete information address K 225, care Kansas Farmer, Topeka, Kan.

DAIRY FARM

80 acres, 30 under cultivation. Balance fine blue stem pasture; 14 of alfalfa; living water; timber; fruit of all kinds; good improvements; 1 1/2 miles from Manhattan, a town of 8,000 people and location of the K. S. A. C. A bargain. Price \$6,500.00. Good terms. Address.

BARDWELL & BARDWELL, Manhattan, Kansas.

Every Man is Entitled to a Slice of This Good Old Earth.

Some Are Getting It; Some Are Not. Are you one that is not? You can get a slice from \$10 to \$20 per acre in the wheat belt, where they have fine soil, fine climate and plenty of water if you will write FEED & ORBISON, Jetmore, Kan., for their list of farm lands. They have something good.

EASTERN KANSAS FARM BARGAINS

160 acres Dickinson county, near Solomon and Abilene, guaranteed perfectly smooth rich land, 7-room house, barn 28 by 48, 82 a. wheat, one-third to purchaser, \$12,000; 160 a. 17 miles Topeka, 5 mi. town, 40 a. clover, all in cult., good 6-room house, barn 48 by 60, extra fine farm, only \$9,000; 80 a. 11 miles Topeka, 75 a. in cult., no waste land, new 5-room house, small barn, spring water, \$5,000. Write for list stating what you want, as we make specialty of selling farms worth the money.

WINGETT LAND CO., Stormont Bldg., 109 West 6th. A. J. WHITE, Farm Salesman.

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JEWELL BROS., Humboldt, Kan.

200 STRICTLY BIG TYPE POLANDS 200
 March and April farrow. Bell Metal, What's Ex., Nebraska Jumbo and Colossus head our herd. Sows carry the blood of the biggest sires of the breed.
B. M. BELL,
 Beattie, Marshall Co., Kansas.

BIG TYPE POLAND CHINAS.
 For quick sale few Aug. and Sept. boars, out of grandson of Expansion and Victor X. L., winner of World's Fair, 3 of the boars out of Lady Youtell 4th, the dam of Prince Youtell. Cheap if sold soon.
J. H. HARTER, Westmoreland, Kan.

STRYKER BROS. HERD POLAND CHINAS
 The greatest show and breeding herd in the West. Write your wants and they will please you. Hogs any age at reasonable prices. Buy the best and make the most. They breed the kind that win the kind you want. Address STRYKER BROS., Fredonia, Kan.

TWO BIG EXPANSION BOARS
 for sale, and guaranteed to be O. K. in every way; sure breeders. Expansion Blue No. 132571, farrowed March 5, 1907, bred by W. E. Willey, dam Big Blue, and Bill Expansion No. 145335, farrowed March 17, 1908. Two big type boars offered cheap, as we can't use them any more this season. Also a few spring boars for sale by
W. E. WILLEY,
 Steele City, Neb.

GOOD POLAND CHINA BOARS.
 A fine lot of young Poland China boars that were sired by the great Lalls Perfection and out of my choicest sows, for sale. All of March farrow and will be sold cheap if taken at once. Must close out as I need the room.
S. W. TILLEY,
 Irving, Kansas.

DIETRICH AND SPAULDING
 Have for sale some extra good spring farrow POLAND CHINA BOARS ready for service; 2 good last fall boars. You can always get a herd leader here. If you want a boar to improve your herd and combining size finish and easy feeding qualities, write them. Prices right. Pedigrees ready with sale. Home phone 1053. Residence 531 Cherry St., Olatwa, Kan.

SOUTH MOUND STOCK FARM LARGE TYPE POLAND CHINAS

Herd headed by Orphan Chief (50986), John Ling (49897), and Logan Ex. (51718) and contains 30 great strictly large type sows the equal to which is hard to find in one herd; the produce of which I will guarantee to be much larger and with as much quality as any medium type herd. Choice spring pigs and they are very choice, weighing as high as 271 pounds, 90 head of summer and fall pigs ready to ship. Let me know your wants and mention Kansas Farmer.
ROY JOHNSTON,
 South Mound, Kan.

*You get
the 25 lb Pail
of Stock Tonic
Free, whether you enter
Prize Contest or not!*

\$1000.00

*You also get
Free the picture
of World's Champion
Six-horse Team
for simply
mailing us
the coupon*

In Gold Given Away in Prizes

ALSO A

\$3.50 Pail of Wilbur's Stock Tonic Absolutely Free

WHERE WE HAVE NO AGENT, TO EVERY PERSON SENDING US THE ATTACHED COUPON, OR WHO WRITES US THE INFORMATION ASKED FOR IN THE COUPON.

We have deposited One Thousand Dollars (\$1,000) in Gold with the FIRST NATIONAL BANK OF MILWAUKEE. This \$1000.00 will be given away in prizes in the most original prize contest ever conducted. See list of cash prizes below.

This \$1,000.00 prize contest is open to every person who writes us the information, asked for in the coupon, or who fills out and sends us the coupon.

The details of the contest will be sent at once. We will also send a beautiful and valuable picture, no matter whether you enter the cash prize contest or not.

Remember, you receive this handsome picture at once absolutely free, and besides may win the first prize of Five Hundred Dollars in Gold.

Remember, too, that it requires no special knowledge to compete for this great prize. Any one in the family can compete—Father, Mother, Boy or Girl—or all of them together.

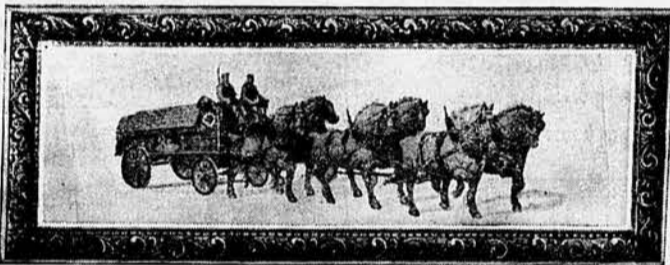
It will require only a few minutes of anybody's time. No canvassing or selling goods is required, just a few minutes work in the evening or at any spare time. The cash prizes are:

- | | |
|------------------------|---------------|
| 1 First Prize | \$500.00 cash |
| 1 Second Prize | 100.00 cash |
| 1 Third Prize | 50.00 cash |
| 4 Prizes, \$25.00 each | 100.00 cash |
| 10 Prizes, 10.00 each | 100.00 cash |
| 10 Prizes, 5.00 each | 50.00 cash |
| 100 Prizes, 1.00 each | 100.00 cash |

127 Prizes \$1000.00 cash

Think What Could be Done With That Extra \$500.00

It would build a comfortable addition to the house. It would furnish your home complete. It would build a granary or an extension to the barns. It would give a young person a business



PABST FAMOUS SIX-HORSE TEAM OF WORLD'S CHAMPION PERCHERONS
Awarded 10 First Prizes, World's Fair, St. Louis, 1904.
This Magnificent 8 Color Picture, Size 15 x 31, Sent Free if You Mail the Coupon Today.

education, or go a long way towards completing a college course.

It would pay for a trip to Europe or an extensive journey through America

If it were required for no other use, it would start or increase a bank account very nicely.

You will surely decide that it is worth trying for when you consider that the trial costs nothing. Besides you receive a valuable present if you will simply write us or

SEND THE COUPON

Better do it now while you have it in mind. Some one is going to get the \$500.00, and every one who writes or sends the coupon is sure of the picture FREE of cost.

We don't have to tell people any more how good Wilbur's Stock Tonic is. Its place is established among the farmers and feeders of the country. Those who have tested it accept its saving in feeds and the improved condition of live stock as a matter of course and order it regularly. Those who make the first trial are surprised at the results as they do not at first realize how a small amount of Wilbur's Stock Tonic can bring such results.

The secret of it is very simple. Under ordinary conditions there is a large waste of the nutrient element of feed. A right tonic increases the powers of digestion and assimilation and enables the animal to get all there is from the feed besides increasing the appetite. With the dairy cow the milk-producing feed is all assimilated and converted into milk when the digestive functions are kept in perfect condition. With horses it regulates the bowels, softens the stomach, purifies the blood and fills the animal with vitality and action. For mares with foal it acts as a wonderful tonic and invigorant. For raising colts to strong, healthy animals, it has no equal. With steers and hogs the fattening elements of feeds are all appropriated, with fowls the full complement of feed is turned into eggs.

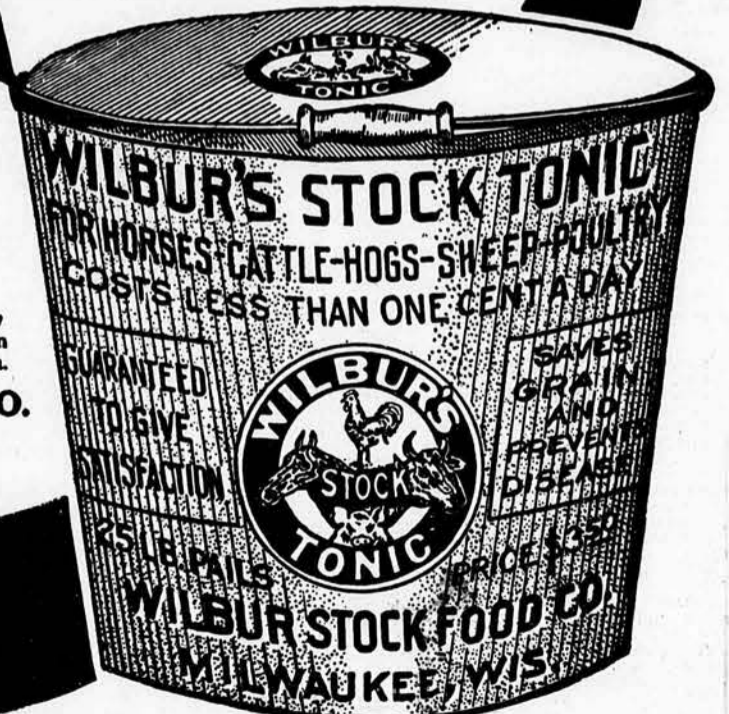
Wilbur's Stock Tonic

is simply nature's corrective elements, that maintain perfect health and condition, give relish to the feeds and aid in digestion, as do the grasses and herbs in the green pastures. It not only increases the efficiency of feeds, but it fortifies live stock against disease and saves veterinary bills and loss of profits and of time.

Send today for the FREE PAIL, the particulars of our \$1,000 prize contest and the beautiful 8 color picture.

Our References—First National Bank, Milwaukee, or any other bank in America; any Commercial Agency in America; any Agricultural Journal in America.

WILBUR STOCK FOOD CO.
673 Huron St.
Milwaukee, Wis.



WILBUR STOCK FOOD CO.
673 Huron St.
Milwaukee, Wis.

Gentlemen: Please send me the

25-lb. Pail of WILBUR'S STOCK TONIC absolutely FREE

also the FREE PICTURE

and the particulars of your \$1,000 CASH PRIZE CONTEST

Name.....

P.O.....

Freight Station.....

State.....

Kindly fill in here the number of live stock you own;

.....Hogs.....Cattle.....Horses

Wilbur Stock Food Co.,
Perrysburg, Ohio.
Milwaukee, Wis.
Gentlemen: I have been feeding Wilbur's Stock Food Tonic for some time with best results. I feed it daily to horses, cows and hogs, and find it does everything you claim

for it. I have fed other kinds, but they are nowhere to compare with yours. I never expect to be without Wilbur's Stock Tonic.
Yours truly,

FRANK E. FOX,
Kremmling, Colo.

Wilbur Stock Food Co.,
Milwaukee, Wis.

Gentlemen: I, J. N. Holmes, have used the Wilbur Stock Tonic nearly four years, and as a horseman I claim it is the best I have used of all Stock Tonics. It makes

cows give more milk and it makes horses shine—making old horses young and fat. It makes hens lay and calves grow, and everything healthy.

Yours truly,
J. N. HOLMES.