

# KANSAS FARMER

FOR THE IMPROVEMENT

OF THE FARM AND HOME

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Established 1863. \$1 a year.

**K**ANSAS is a young state, and yet, in her short life she has seen more of human progress; more civilization, enlightenment and prosperity in the world than had been attained in all previous history.

In her infancy the farmer toiled with his hands and his utmost endeavors only served to secure the meagre necessities of life. Because of his methods his importance in human economy was small, his mental powers atrophied and his name a reproach among his fellows. Now the farmer uses his brains as well and stands a prince among his equals.

Fifty years ago, when Kansas was born, there were not in all the world farmers enough to produce, under their methods, the uncounted wealth which grew upon American farms last year. The years are few, but measured in accomplishment they are centuries.

Depending upon his ox or his ass for motive power, and using in his business little more of brains than they possessed, the farmer's lot was then a hard one, and his comforts few. He practiced an economy which was the greatest waste and knew no better. His body was active in his business but his mind rested. Yet in his stress he laid the foundations for great things to follow. Grown sturdy in his surroundings, he was the sire of a sturdy race. Giving little thought to his business, he gave much to other things which made for the good of his kind. Strong in his own strength he begat sons of greater brain and brawn.

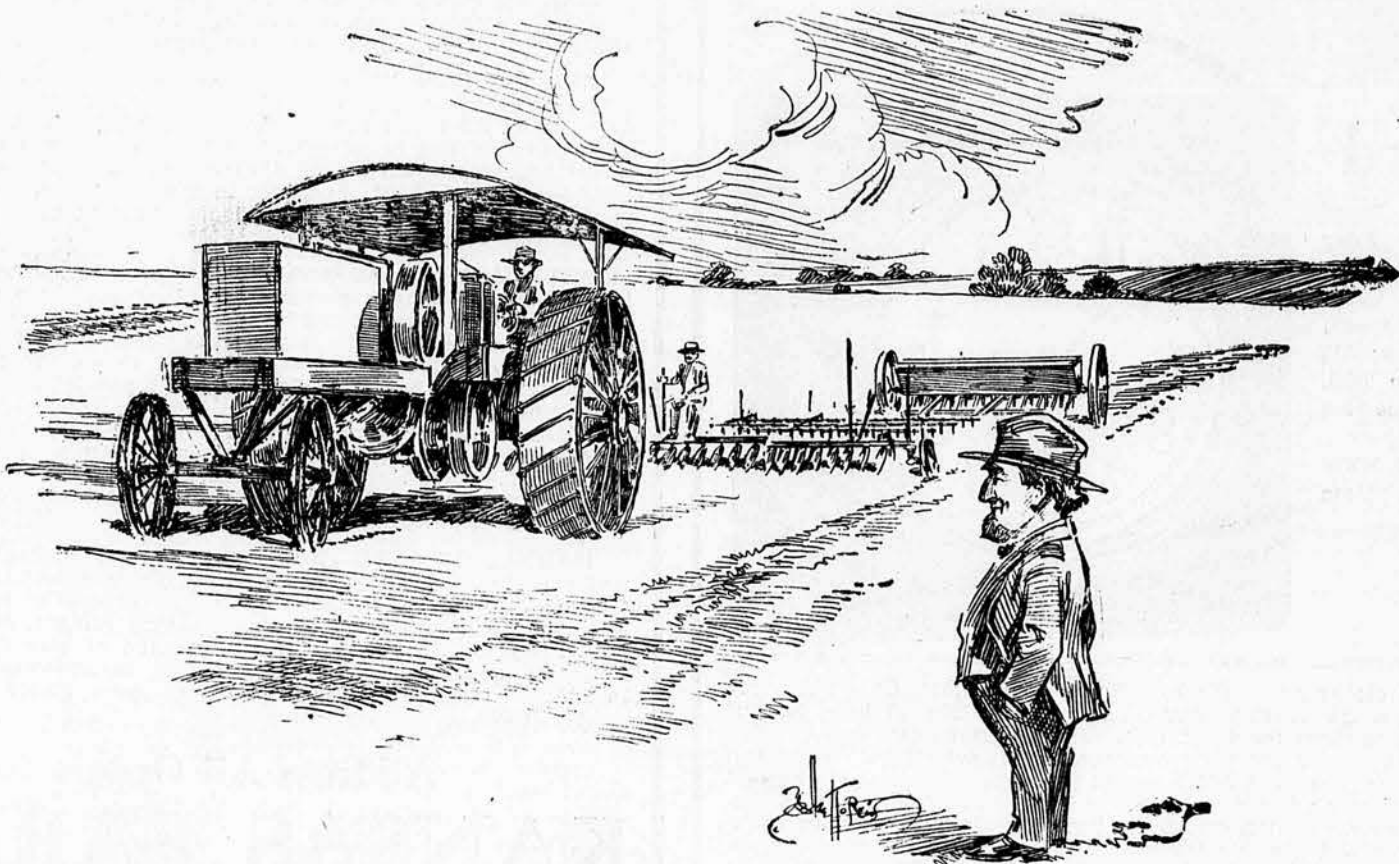
With the crowding of immigration, the congestion of a fertile race and the greater demands upon him, this son of a mighty sire learned that brains were effective weapons with which to fight life's battles. Instead of the wooden mold-board he substituted one of chilled steel and found it good. Instead of the plodding ox he bred the mighty draft horse and found him better. Instead of the scythe he devised the reaper, and combining these, found them best.

His hands continued to labor but his brain worked as well and with these he made new tools for better and larger work. Each new conquest of mind over matter brought new zest in life, new profits from his farm and new prosperity for his nation. Instead of special tools for special work he devised special tools for all work and learned true economy. Instead of large herds of horses and many men to plant and tend and reap his grain, he substituted the iron horse and combined his operations. The horse stands idle for many months yet he still eats. The tractor does the work of many horses yet costs nothing when idle.

The plowing, disking, harrowing and seeding of the fields required many horses. The tractor does all at once. With this mighty engine of steel and gas the farmer now plows, plants, harvests and stores his crops, builds his roads, digs ditches, threshes grain, markets his products, saws his wood, pumps water and runs his dynamo. In stress of season it works night and day. The crops are better, because the work of preparation is better done and the seed better planted.

In no equal period in history has mankind made such rapid progress; at no time has the farmer made such advancement; in no age has a state developed so much as in the last half century which marks the life history of Kansas, and the most potent factor in all this progress and growth and development towards all that makes life worth the living is the tractor engine.

I. D. G.





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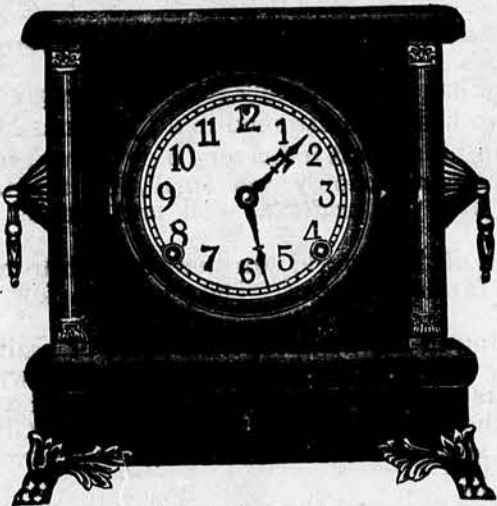
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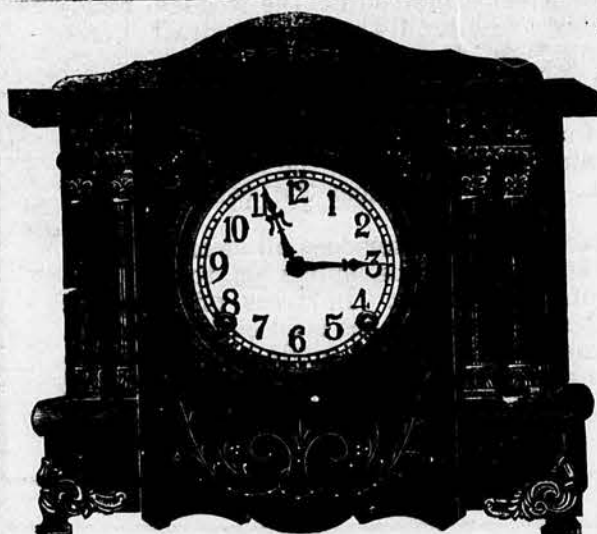
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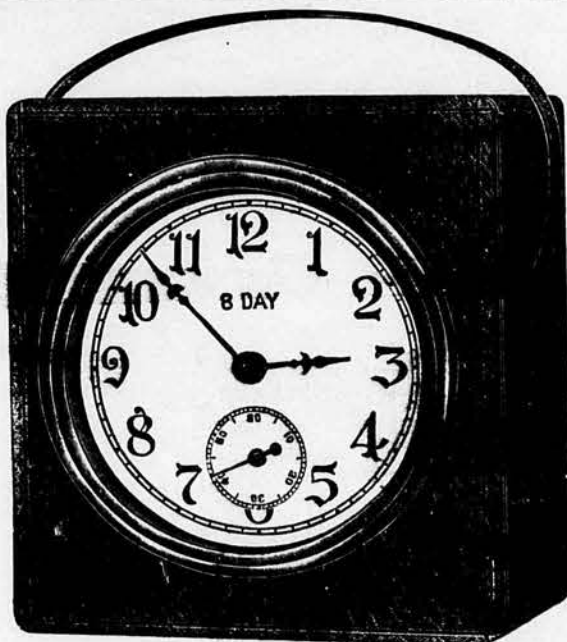
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TOPEKA, KANSAS





# KANSAS FARMER

## EDITORIAL



### THE BANKS WOULD QUIT.

If it were not for the dairy and poultry interests in Kansas very many of the banks would be practically without business except at two seasons of the year. These two "side lines" are the principal sources of continuous revenue in a very large percentage of the farm families of the state. There are other crops which produce more money perhaps but they do not do it continuously. The big crops bring in large sums at harvest time but at no other season. The dairy and poultry bring in smaller amounts but these come steadily and furnish the ready money necessary for running expenses.

For this reason the bankers are taking a large interest in the dairy business and in poultry as well. They are doing everything in their power to encourage both and what they can do to stimulate any industry in any state is "a plenty." As a rule bankers are shrewd business men who take the long look ahead. They realize that no system of agriculture can be made permanently profitable without live stock. They know that the temptations of high prices for grain and feed stuffs in recent years have not only served to reduce the live stock population of the state below normal but to deplete the fertility of the farms through lack of it. They know that no land will continue to produce large crops without manure and that the heavier the yield the more food elements are consumed by the growing crops and the greater the need of manure.

All of the problems of farming in Kansas are not yet solved but live stock offers a solution to most of them. There is perhaps no country that is better adapted to dairy and poultry farming than western Kansas. Feed is cheap and abundant, water plentiful and pure, the climate is ideal and there is a market for every pound of product at the door.

Irrigation, dry farming, draining the draws, changing the crops, and everything else that gave promise of success has been tried—save one. Why not give the dairy cow a trial? She has "made good" in every other region and under all kinds of conditions. She will make good here.

Information comes to the effect that Secretary J. C. Simpson, who has been so long and favorably known as Secretary of the Iowa State Fair and Iowa State Board of Agriculture, has been elected Secretary of the Minnesota State Fair to succeed C. N. Cosgrove. Mr. Cosgrove served as Secretary of the Minnesota State Fair at a time when it was a great many years, and as to his credit the bringing up of that association from a money losing proposition into one of the greatest and most successful state fairs of the country. Secretary Simpson has won an enviable record through his work at Des Moines, and his transfer to Minnesota will serve to give him even greater opportunities than he has been enjoyed. It is not believed that Minnesota is a better agricultural state than Iowa, but her location of the state fair grounds is more fortunate in that it is placed midway between two very large and enterprising cities, which furnish the record breaking attendances which characterize that fair. The success of any fair depends upon its attendance, and while the state fair is maintained primarily for the exhibition of the resources of the state, and the education of its citizens, there must be amusement features to attract attendance as well. State fairs that are located near large cities have a decided advantage in the matter of attendance the reason that such attendance comes from a circumscribed area of comparatively few miles from the fair ground site.

There are but two national game preserves in the United States, though there are more than 150 national forest reservations where game is more or less protected by the officers in charge. The Wichita Mountain and Grand Canyon Game Refuges are aside for the purpose of allowing our wild game as still survives to propagate and these are in charge of special wardens. The forest reserves are in charge of forestry

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PICTURES—Good photographs, drawings and plans are especially solicited. Senders' names should always be written on the back of each picture. KANSAS FARMER can not be held responsible for any picture submitted, except under special written agreement.

CONTRIBUTIONS—KANSAS FARMER is always glad to have correspondence on all farm, live stock or household subjects. Your name should be signed to all communications and they should always be addressed to

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est reserves are in charge of forestry officers who seek to protect game under the laws of the state where the reservations are located. There is a small herd of buffalo in the Wichita Mountain Refuge and just lately eight head of antelope have been transferred there from the Yellowstone National Park. Thus the Government at this late day strives to perpetuate with great care and expense a few species of the noblest game animals that any country was ever blessed with. Like other resources of this country, our wild game has been wasted.

During the winter season there have been a number of great land shows which nominally have for their object an exposition of the resources of the country. These, however, have been largely operated by people who are interested in exploiting certain sections of the country, or have been accidentally filled with exhibits from remote and little known agricultural regions. There are great opportunities in the corn belt states, and while the cry of "Back to the Land" is so badly overworked as to be meaningless, it grew out of a real need of the times. There are many people living in cities who could make a good living on small tracts of land, if they knew where to find them. There are very many more who would fail if they attempted it. Those who really want to go to the rural life are dazzled by the advertising that is put out by those interested in dry farming, irrigation or other projects, while the very best of opportunities to which attach none of the discomforts and inconveniences of carving a home out of new lands are to be found right in the corn belt. There are many small farms in the corn belt where fruit, poultry, and dairy products are not only easily produced and find a good market, but where these can be produced by people whose previous experience has been with city life. A farm costs about so much money wherever it is located. Either the buyer pays this cost in actual cash at the time of purchase, or he pays for it in long years of hard work, in its development. When the farm is made a paying proposition its value is about the same whether it be purchased for cash in the corn belt or developed through years of toil and the smaller and slower cash payments needed under the irrigation project or in the dry farming region. It ought to be true that the land show and the agricultural press of the country would show more of the advantages to be gained in the corn belt than in any other section of the country.

At the eighth annual meeting of the Kansas Good Roads Association, strong resolutions were passed urging an amendment to the state constitution so that it will be possible to grant state aid for road building pur-

poses. This is a move in the right direction, although it should be borne in mind that too many states who have had the right under their constitution to give state aid for road building purposes have practically failed of their objects because no provision was made for the maintenance of such roads when once constructed. New York has built about 650 miles of permanent roads at an expense of several million dollars, but these roads are rapidly deteriorating under the intense traffic of automobiles and heavy wagons. No bill should be presented to the Legislature for consideration which does not include a provision for the maintenance of good roads, as well as for their building. The permanent roads that have already been built in Kansas are falling into disuse because of lack of maintenance, and this lack grows out of the fact that no provision was made for such purpose when the road was built or since that time.

The man who predicts the downfall of the automobile is not a good prophet. The man who denies its great necessity and general adaptation to the needs of modern civilization is still less a prophet, while the man who predicts the annihilation of the horse because of the automobile, is foolish. While it is possible that there is a falling off in demand and prices of certain classes of light horses, like drivers and delivery horses on account of the increased use of the automobile and auto truck, there has been a steady increase in demand for the heavy draft type of horses, and this to such an extent that there are now indications of a reduction in the output of motors and cars during the coming season. This is the age of the draft horse, and in no place does he thrive better, develop to greater perfection and become more useful and valuable than in Kansas.

Manure is worth dollars and it is up to us to save those dollars. Manure adds humus as well as plant food to the soil, and one is as valuable as the other. The soil may contain all the elements of plant food, but if it has no humus these elements are not available and plants do not thrive. Humus aids in retaining moisture for the future use of the plant. Now is the time to save money by saving manure, and manure is best saved by being spread upon the field where it will do the most good. Immediate value in crops as well as ultimate value in the farm results from the use of the manure spreader.

Damage to trees by rabbits gnawing the bark can be stopped in the following way: Make a thick whitewash. Slaking the lime over night improves it. To each pail of the whitewash add three teaspoonfuls of Paris green and paint the trees with it. Stir frequently when applying it.

### STATE IMMIGRATION AGENT.

Backed by the real estate dealers of the state, there is now pending before the Legislature, a bill which has for its purpose the creation of the office of State Immigration Agent. The expense of maintaining this office are to be borne by a direct tax of \$50 per year for each real estate agent or firm doing business in the state. While it will be nominally a state office, it will really not be supported by the taxpayers of the state, should the present measure become a law.

While the census reports for the last decade show that Kansas gained 15 per cent in population, and while this gain is a good one as compared with other states, the facts still show that this increase has gone entirely to the cities and towns and not to the rural districts. Kansas is in the midst of the garden spot of the world. Her crops are of national importance. Her resources have not been developed and there is ample room for a large influx of population on her farms. Such a population is needed. Indeed, it is the most desirable that can come to the state, and it is believed by those who are in favor of this measure that a proper advertisement of the resources, both agricultural and industrial, would result in an immigration to Kansas such as this state has not seen for many years. The opportunities for investment are unexcelled. Farm lands are selling higher than they were, but our own citizens hardly realize their richness or their possibilities as wealth producers. With the growth of the cities and towns comes an increased local demand for farm products, and with her location Kansas is always within reach of the great markets of the country.

There are certain sections of the state which cry out for intensive methods in farm cultivation. Other methods have been tried with greater or less success, but the field is ever broadening in which the dairy cow can be used as a ready money maker. Western Kansas produces vast quantities of roughage, alfalfa and grain, which could be utilized by dairy farmers who would turn these crude products of the farm into ready cash. They have a market at every town, and this market can never be glutted. While the dairy cow is useful and valuable as a money maker in any section of the state, there is no section that offers greater opportunities for her good work than does western Kansas. It would seem that some measure looking to the increase of our population would result in good to all classes of our citizens, and as this measure is put forward by a group of men who offer to pay the expenses themselves, it would seem the part of wisdom to accept their offer and establish this department.

### A FARM HOT BED.

Few people realize the immense satisfaction that could be derived from the use of even a small hot bed or scold frame on the farm and the little labor and expense it would involve. By selecting a site, preferably on the south side of a building or shelter belt of trees, excavating it to a depth of about two feet, filling it with horse manure to within about six inches of the top and then covering it with fine, rich soil a bed may be prepared which will insure early vegetables and a delightful change in the bill of fare at least a month before the neighbors are getting anything green from their gardens. The human system seems to crave something green and fresh in the spring and good health as well as pleasure demands that it should be furnished. Build the pit just wide enough so that a board frame surrounding it will accommodate a six foot sash that is three feet wide. These sash can be lifted alternately for ventilation or can be removed entirely on warm, sunshiny days. There is never any danger of frost when properly constructed. I built a double wall of common boards nailed on each side of 2 by 4 studding set in the pit and filled the space between the walls with manure tamped down close. This brings it above the surface, and makes it a little more convenient, but otherwise it is no better.



# TIMBER CULTURE



*Catalpa Proves to be Best Cultivated Tree For Every Purpose Its Straight and Rapid Growth and Lasting Qualities Make It An Invaluable Tree*



PICTURE I, IS CATALPA SPECIOSA. PICTURE II, IS COMMON SCRUB CATALPA. THE SCRUB TREES ARE OLDER THAN TREE SHOWN IN PICTURE I. PICTURE III, SHOWS SEEDS OF THE GENUINE CATALPA, BESIDE SEEDS OF THE WORTHLESS KIND. THE GENUINE SEED IS MARKED 1 AND IS SHORTER AND MORE PLUMP THAN THE SEED OF THE SCRUB VARIETY.

Farmers and investors are beginning to awaken to the fact that the planting of a part of their land to forest trees is profitable and necessary; profitable because the ever-increasing consumption of timber for posts, poles and lumber make for it a demand that will never fall, necessary because it secures the planter against the approaching timber famine.

Forestry farming has passed the experimental stage and is rapidly coming to be considered as necessary a part of up-to-date farming as are the regular agricultural crops. Actual results from tree planting, in small groves as well as large plantations, go to prove that it is more profitable than any other farm product.

Forestry farming is also desirable, because the process of planting need not be repeated every year, but after it is once established it requires less care every year, while in turn it is ever becoming more valuable. It can be harvested at seasons that are ordinarily dull on the farm. Also the period of cutting is not confined to any small space of time.

There is no such thing as crop-failure with tree-planting. After planting, the tree will grow when the season is right; and will hold that growth during drought or unfavorable weather. And while its growth may be less because the season is unfavorable, yet there is no loss in what it has attained, as there is in grains and vegetables.

Tree-planting is also necessary to the preservation of our farming lands. If done rightly, it prevents the washing-away of the top soil, the roots absorb much moisture and cause the ground to hold much more, which in turn forms a constant supply for streams and brooks. Also by causing the ground to absorb moisture, it prevents the constant washing, and forming of gullies and channels, while the rapid rise in rivers and streams cause such destructive floods.

Every land-owner knows how difficult it is to procure fence posts, and the exceedingly high prices that it is necessary to pay for telephone poles. And these conditions are bound to continue on account of the great increase in the demand, and the corresponding shortening of the supply.

The United States Agricultural Department, the State Agricultural Departments and the different Forestry

Societies, which are the most conservative and unbiased authorities, have, to a great extent, caused the present interest of the public in tree-planting, and make them realize the alarming timber situation of the country today.

Forestry Farming has been demonstrated to be profitable and necessary. The essential question, then, is to plant the most adaptable, the most profitable and the quickest-growing tree that there is.

That timber is the pure Speciosa Catalpa.

Speciosa Catalpa is the most adaptable known timber. It will attain sufficient size for fence-posts in a very few years; makes a post that does not check or split when stapled, and will grip a nail or spike longer than any other wood. Is likewise equal to almost all hardwoods for cabinet-work, interior finish, and ornamental work.

The wide range of its uses, its non-decaying qualities, the speed of its growth, and the small outlay of expense required to plant and care for it, makes it the most profitable timber that can be grown.

Twenty-five thousand acres of timber are required every twenty-four hours, by railroads, manufacturers and miscellaneous consumers of the United States. Or, in other words, all the wood that twenty-five thousand acres of our native timber can supply, is needed to meet the present daily demand. There are approximately four hundred billion feet of timber in this country. We are consuming it at the rate of twenty-five billion feet annually. With all the conservation efforts that can be made, as respecting the present timber supply, we are bound to face a timber famine in from fifteen to twenty years.

The United States Forestry Service, the most qualified, conservative and accurate source of information relative to the timber problem that we have, says:

Hardly one hundred years ago the United States east of the Mississippi was an almost unbroken forest comprising something over one million square miles. Now there are not more than 300,000 square miles of merchantable forest land in the eastern United States.

The most notable shrinkage has been in the leading hardwoods to which the public has long been accustomed. Oak, which in 1899 furnished over half the entire output of hardwood lumber, fell off 36.1 per cent. Yellow poplar, which in 1899 was second among hardwoods in quantity produced, fell off 37.9 per cent. Elm, the great standard in slack cooperage, went down 50.8 per cent. Cottonwood and Ash, largely

used in many industries, lost, respectively, 36.4 and 20.3 per cent.

The amount of standing hardwoods is uncertain. The largest estimates set the figures for hardwoods at 400 billion feet. If we are using hardwoods at the rate of 25 billion feet per year, this would mean a sixteen years' supply.

How intensely the whole country would feel the loss of its hardwood timber to an ample supply of which it has long been accustomed, can scarcely be realized. Without hardwood for building purposes, for railroad ties, for the manufacture of furniture, cooperage, and vehicles and for the varied other uses to which it is put, we should be in sad straits indeed. A general failure in crops may affect industrial conditions for a few years—a failure in the hardwood supply would be a blight upon our industries through more than a generation.

The situation in brief is this: We have apparently about a fifteen years' supply of hardwood lumber now ready to be cut. Of the four great hardwood regions, the Ohio Valley States have been almost completely turned into Agricultural States, and the Lake States and the Lower Mississippi Valley are rapidly following their example.

In the Appalachian mountains we have extensive hardwood lands which have been culled and greatly damaged by fire. These are practically all in private hands, and while they contain a large amount of inferior young timber, they are receiving little or no protection, and even such young timber as exists is making but slight growth. Even if these cut-over lands be rightly managed they cannot greatly increase their yield of merchantable timber lands inside of from thirty to forty years.

The inevitable conclusion is that there are lean years close ahead in the use of hardwood timber. There is sure to be a gap between the supply which exists and the supply which will have to be provided. How large that gap will be depends upon how soon and how effectively we begin to make provision for the future supply. The present indications are that in spite of the best we can do there will be a shortage of hardwoods running through at least fifteen years. How acute that shortage may become and how serious a check it will put upon the industries concerned cannot now be foretold. That it will strike at the very foundation of some of the country's most important industries is unquestionable. This much is true beyond doubt, that we are dangerously near a hardwood famine and have made no provision against it.

The solution, which is recognized by the United States Forestry Service as being the only adequate and

practical one, is the wholesale planting of timber by farmers, land-owners, railroad and telephone companies, etc. There must be a great national conservation effort of forestry planting.

Second only to realizing the present general conditions, is the selection of a timber to meet the requirements. These requirements are, generally speaking, adaptability to a wide range of soils, rapidity of growth, an up-right habit, must be hardy and enduring, impervious to decay, free from checking or warping, capable of taking a good finish, and adapted to a wide variety of uses. In short, it must possess the qualities of the Hardwoods, such as Oak, Hickory, Walnut, etc., and the speed of growth of the Cottonwood or the Sugar Maple.

The qualities of the common quick-growing trees obviously place them out of the question as a source for the future lumber supply. There are some quick-growing varieties that possess some of the requisite qualities of the hardwoods. Only one of them answers the question completely. That is the genuine speciosa catalpa.

But the wide-spread planting of catalpa as a solution to the fence-post and lumber problem is in serious danger because of the lack of knowledge among nurserymen and planters of the great difference between the varieties of catalpa and of the absolute necessity of producing the right kind. Catalpa Speciosa is the only form of catalpa that has value.

The other varieties, Bignonioides Koempferii, etc., are absolutely worthless. This fact cannot be emphasized too much. On the procurement of the genuine Speciosa Catalpa depends the future success or failure of the growing of Speciosa Catalpa through the country.

The Speciosa is the only form of catalpa that has a quick, steady, continuous growth; that has an erect habit; whose wood possesses all the qualities necessary for successful raising it. All other varieties are forms of the common, scrub catalpa that has no commercial value whatever; branch low, grow very slowly after three years, and are in no way comparable to the Speciosa. A grove of this scrub kind, a few miles north of this city, is twenty years old and the trees are not even good fence-posts because of branching low.

The Speciosa Catalpa bears very sparsely, only two or three to the cluster, and very few clusters to the tree. The scrub catalpa is prolific and bears seed in great quantity. The common, worthless catalpa has five times the germinating power of the Speciosa Catalpa.

(Continued on page 6.)



# Hog Cholera And Vaccination



METHOD OF HYPERIMMUNIZING  
A LARGE HOG



METHOD OF VACCINATING  
A VERY LARGE HOG

THIS ILLUSTRATION IS REPEATED AT  
NUMEROUS REQUESTS.



METHOD OF VACCINATING  
SMALL PIGS

The ultimate aim of the serum station at the Agricultural College is to stamp out hog cholera or at least reduce the death rate to such a low percentage as to make the heavy breeder feel safe in his investment. There are several things to consider: first, the care of hogs before and after vaccination; second, immediate action when an outbreak occurs; third, the length of time it takes the serum to reach its destination; fourth, cleaning the premises of infection after the disease has been stopped.

Hogs affected with cholera show one or all of the following symptoms: the animal is dull with perhaps some diarrhea and his appetite is in the very first stages impaired or he may be entirely off feed. The walk is irregular, head extended and carried low, eyes usually inflamed and discharging a whitish pus; the tail is straight, flanks sunk in and on the whole the animal presents an unthrifty, dumpish appearance. Cases that have pronounced lung affection give a hacking cough. Red blotches may occur on the skin about the necks, belly and inside the ears and a few cases develop sores on the side of the back.

On post mortem examination of a carcass suspected of hog cholera, we look for certain evidences characteristic of this disease. The skin on the belly should first be examined for red blotches. The fat just under the skin shows red spots about the size of pin heads. The lungs may be solid or parts of them resembling the liver in appearance. Spots may show on the surface of the lungs varying in size from that of a pin head to a pea. The inside of the stomach may show some inflammation and in the intestines in the region of the ileo cecum valve or here the small intestine joins the large; here we may also find small ulcers about the size of a pea. The kidneys show small spots similar to the eggs; they compare very favorably with a turkey egg. The spots being very distinct.

When disease appears among your hogs, first make sure that it is cholera, and if so, vaccinate with serum immediately. A few hours' delay may be enough to pay for the vaccination of the whole herd, and several days' delay usually means the loss of a good many hogs beside the rapid advance of the infection into the well ones. The serum is not a cure but a preventive and the more infection there is in the system of an animal, the less likely is the serum to do its appointed work.

Upon receiving an injection of serum, the hog undergoes more or less a febrile reaction, his vitality is temporarily lowered and it is always advisable to take the following precautions: Light feed and very little corn before vaccination and for several days after. A thick swill of water twice daily and plenty of fresh air at all times is urged. The animal should be provided comfortable quarters, as free from mud and dust as possible. This lessens the ten-

dency to wound infection and the formation of abscesses at the point of injection, which we sometimes have, especially where the sanitary conditions are not the best. Protection from the weather, particularly drafts of cold air and snow and rain, should be given.

In order to obtain the serum from the college, first make application to the Live Stock Sanitary Commissioner at Topeka. He in turn notifies the serum station and the serum is sent out.

Too much stress can not be placed upon the necessity of immediate action. As I have mentioned before, a few hours means dollars. It seems the express companies are unreliable in delivery, transferring, etc., making it in all an unsatisfactory means of transporting the serum. I know of several instances in which the delay was almost a week. Not long ago, we sent an order of serum to Cawker City. It was five days on the way. Another instance it took five days for express to reach Anthony from Manhattan, while one lot to Concordia and one to Holton froze.

As the serum immunizes for only about three months, the control of the herd after the disease is checked is important. Place all well hogs in clean, non-infected pens. If any still remain sick, they should be put in a close pen. All dead carcasses should be buried or burned. It seems that

some people are not familiar with certain laws pertaining to the disposal of carcasses of diseased animals. Section 2822 General Statutes of Kansas, 1909, provides the following: "It is hereby made the duty of every person who owns or has control of any hog that has died of any contagious disease to bury the same to a depth of three feet or burn the same, within forty-eight hours after such hog has died, and any person who knowingly fails or refuses to comply with the provision of this section shall be deemed guilty of a misdemeanor and upon conviction thereof shall be fined not more than 100 dollars." Section 2825 further provides that "Whoever shall throw or deposit a dead hog in any river, stream, creek or ravine, shall be deemed guilty of a misdemeanor and upon conviction thereof shall be fined not exceeding \$100."

All infected ground should be disinfected. This may be done as follows: Rubbish, such as cobs, straw, sticks, corn shucks, bedding, etc., should be raked and burned. Then sprinkle the ground with disinfectant. One of the best disinfectants is Kresol Dip, it being inexpensive and efficient. The sprinkling can be done with a spray pump, but a common sprinkling can is better. Hydrated lime can also be scattered around over the ground. Two or three days after disinfection,

the hogs can be safely placed back in the pens.

Large lots that are infected can best be cleaned by plowing and sowing to some forage crop. It is best to keep hogs off such fields at least a year. Alfalfa pastures can be disked and hogs kept off preferably for a year. No source of infection is more probable than a running stream of water, and on streams are invariably found a number of pens. For this reason the destruction of carcasses is of the utmost importance. A piece of flesh of a hog dead of cholera will infect other hogs, as long as there is a particle left of it. Particles of a carcass may flow for miles down stream and finally land in some hog pens, thus causing what is now known as "spontaneous outbreak" of cholera.

When an outbreak of cholera occurs on a stream of water, all hogs should be moved back from the streams and their water supplied from wells. Other carriers of infection are dogs, crows, rabbits, pigeons, etc., and of these probably the dog is the most responsible. And here it is well to emphasize the importance of keeping your dog on a chain if cholera is in the neighborhood. A large number of stock yards and cars are infected. I think it would be safe to say nine out of every ten such infected yards and cars are often responsible for an outbreak of cholera in a community. It is therefore important that a man who has a herd of well hogs at home, should keep out of public stock yards. Feeders should be particularly careful in handling hogs which have just been shipped in. Keep them away from the natives for at least twenty days.

Summing up, I would say that the very best sanitary measures should be observed, whether in sick or well herds. All vaccinating is done at the present time by graduate veterinarians. This is done for several reasons; first, proper antiseptic precautions are necessary for the best results. In administering serum in an infected herd, it is of the utmost importance that the animal be given the maximum dose corresponding to his size, general physical condition and stage of the disease. The single dose treatment, if best results are to be obtained from it, must be given with judgment, which can obviously only be had by experience in the sick herd.

I would conclude: First, each and every outbreak should be handled with the one aim in mind, to keep the disease from spreading.

Second, immediate action is urged in an outbreak, because at the best it is from two to several days before the serum reaches you after your application is in.

Third, a thorough cleaning and disinfecting of premises and pens after the check of the disease.

Sanitary measures should always be observed whether in sick or well herds, and especially when new hogs are brought on the farm with the natives.

## From The Farmers Point of View

By DR. E. E. KUBIN, K. S. A. C.

## THE FARM BOY

Interest in the farm boy in on the increase if he remains on the farm. With the rapidly increasing population of the country as a whole and the decreasing population of the farms as shown by the last census the farm boy on the farm will become a factor to be reckoned with.

On the other hand, if the farm boy should listen to the lure of the city and cease to remain a farm boy he only becomes a unit in a great throng. He has no personal weight beyond that of an atom of humanity whose chiefest importance comes to him only on election day and when the census enumerator arrives. On all other days he grubs for board and clothes. On the farm he does not have to spend his whole time and thought on the problem of mere existence. He has opportunities for larger things. He is a factor in the life of

the community in which he lives. He becomes a producer of the world's necessities and a manufacturer as well; a business man, a scientist, an economist and a man among men.

Under modern methods he no longer fears the changes of the weather as he once did nor dreads the insect pests. With modern machinery he is largely independent of the hired help problems that confronted his father. His boy can drive the manure spreader, spray the orchard, operate the gasoline engine and think it fun.

The farm boy of today starts where his father quit. He has more knowledge, more skill, more ability and is worth more to himself and the world when he leaves the agricultural college than his father has gained in a life time of hard knocks. There is a great future before the farm boy who stays on the farm.





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# TIMBER CULTURE

Continued From Page Four

The Speciosa Catalpa seed hybrid-  
izes very easily with the common va-  
rieties, even to the extent when both  
kinds are merely in the same locality.  
It is almost as dangerous to plant the  
hybridized plant as it is to plant the  
common. Safety and profit lie in  
planting the pure, genuine Speciosa,  
only.

Because of these conditions, the ac-  
tual cost of obtaining the pure Speci-  
osa Catalpa, in the very few places  
that it can be obtained pure, is four  
to five times that of gathering the  
common.

For these reasons, the very large  
part of the seedlings being grown  
and offered for sale over the country  
by nurserymen and planters are  
either the common, scrub varieties or  
the hybridized Speciosa Catalpa; also  
approximately all the seed offered for  
sale today by seed-houses as the pure  
Speciosa is some form of the common  
or hybridized varieties. These can be  
foisted upon the public with impunity  
as only an expert can detect the dif-  
ference between the common, the hy-  
bridized, and the pure. And after  
starting to grow, the seedlings, up to  
the time they are two or three years  
of age, cannot be told apart, even by  
the experts of the government for-  
estry service.

Therefore, we would caution our  
readers to keep the above facts in  
mind, and buy their seedlings of a  
firm whose reputation is square; who  
have made a specialty of this line for  
years; and who can furnish unques-  
tionable proof as to the genuineness  
and purity of the seed they plant.

The Speciosa Catalpa presents to  
the forester the greatest variety of  
desirable qualities and uses of any  
known wood. For fence-posts and tel-  
egraph and telephone poles, cross-  
tance to decay when in the ground or  
ties, etc., it possesses the rarely com-  
bined qualities of remarkable resist-  
out, and of holding a nail or steeple  
or spike without checking or split-  
from rotting. Its texture is such that  
it will resist it naturally. It is also  
ting whatever. It requires no artifi-  
cial treatment as does oak, to keep it  
remarkably free from disease.

William L. Hall, U. S. Division of  
Forestry, says:

"A few years trial on the plains  
sufficed to prove its good qualities for  
that region. It was easily propagat-  
ed, grew rapidly on prairie soil, had  
good form, was drought resistant, had  
few insects or fungus enemies and  
above all was a lasting timber, adapt-  
ed to many uses. Such good qualities  
soon brought it into general recogni-  
tion. In the regions named, it took  
the lead as a commercial tree, espe-  
cially for such uses as fence posts, tel-  
egraph and telephone poles and rail-  
road ties. Its value for most of these  
purposes have been fully demonst-  
rated. As a post timber it has given ex-  
cellent satisfaction. It ranks with  
Black Locust and Osage Orange in  
durability, while it surpasses them in  
rate of growth, form, penetrability,  
and freedom from checking. The  
heartwood of the catalpa forms near-  
ly three-fourths the volume of the  
entire tree, even at the early age of  
five to ten years and it is durable in  
the soil if properly seasoned, regard-  
less to age and rapidity of growth. If  
we add to its durability, its rapid  
growth, good form, lightness, strength,  
elasticity, immunity from checking or  
becoming unduly hard, we have an ar-  
ray of good qualities that to many  
men of experience, place it first  
among the post timber."

Catalpa requires a fairly good  
quality and richness of soil for good  
growth. It flourishes on prairie soils,  
even if there is considerable sand,  
provided the water supply is suffi-  
cient. Also succeeds in poor sandy  
belts and gumbo, though harder to  
start and slower in growth until it  
penetrates gumbo strata. However if  
a layer of clay which is not too

heavy occurs beneath several feet of  
good soil it is of advantage, since it  
forms a beneficial soil foundation, re-  
taining fertility and moisture. In fact,  
the quality of soil that is favorable to  
the growing of corn is best adapted to  
the growing of catalpa. However, cat-  
alpa will succeed on land which  
might grow good corn, as far as the  
quality of the soil is concerned, but  
the rainfall is irregular.

Catalpa Speciosa requires on an  
average a rainfall of 20 to 25 inches  
per year. That much is ample for  
good growth. However, it will stand  
any amount and flourish. That is, do  
not hesitate to plant catalpa, what-  
ever your annual rainfall is, provid-  
ing that it reaches twenty inches per  
year. It will flourish, however, in  
sections where the rainfall is less  
than this, providing there are fre-  
quent overflows or there is a water  
table or permanent water within ten  
or fifteen feet of the surface where  
it can send its roots down to water.

Speciosa Catalpa is the greatest  
boon to the farmer who owns rich  
bottom land which overflows fre-  
quently, thus making other crops un-  
profitable. Overflow will not hurt it,  
even if covered completely, providing  
it is for not too long a time. In sec-  
tions of Oklahoma it has been  
known to be completely under water  
for five days continuously, and not be  
damaged. On the other hand, over-  
flow enriches the soil.

In planting, ground should be pre-  
pared as for any ordinary crop,  
plowed and pulverized to a fair de-  
gree. Then cross-mark the land for  
distances desired to plant. This can  
be done by running lines, or by run-  
ning light furrows, or any other con-  
venient plan. Let the intersections  
of lines mark places for setting. Af-  
ter ground is ready and places marked  
for setting, take seedlings to field in  
a wagon—a goodly number can be  
taken at a time—but keep them well  
covered with damp straw or chaff,  
and shaded or protected from the  
drying wind or sun. It is well to dip  
them in water or moisten them be-  
fore planting. Planting should be  
done when ground is in good tillable  
condition. Do not plant in mud or  
work ground to wet. Should be in  
same condition that is best for any  
other agricultural crop.

First cut tips of roots off with  
sharp spade or cutting box. The best  
and easiest way to plant is as fol-  
lows: At the places marked for set-  
ting, insert a spade full depth, push  
forward considerably, and insert  
seedling behind spade to a depth that  
will leave it planted about three  
inches deeper than it grew in the  
nursery; then withdraw spade, and  
about four inches away from the place  
inserted the first time, and push dirt  
towards seedling. Then tramp the  
dirt in the second spade hole.

During the first year, trees should  
be cultivated as any other crop. Other  
cultivated crops may be grown profit-  
ably between the rows, especially po-  
tatoes, corn or root crops. After the  
first year's growth from seedling  
trees should be cut back to the  
ground. This should be done in the  
early spring, about March, after the  
frost is out of the ground and the sap  
has begun to start up in the tree. This  
can be done very rapidly with a large  
hawk-bill pruning knife, one man cut-  
ting back two acres a day. After this  
is done, several sprouts may start  
from the stump. Rub off at once  
while easily done, all but the strong-  
est one. This one sprout will grow to  
a height of ten or fifteen feet from  
the first season. No pruning is re-  
quired except to keep these sprouts  
rubbed off in early spring. Usually  
two sproutings are sufficient. After  
thus starting the dense foliage will  
cause what is known as self-pruning.

After two to four years' care, the  
forest can be depended upon to take  
care of itself until time for harvest.

There is a world of philosophy in the KANSAS FARMER editorial  
item to the effect that the increase in the value of the farms of the  
country from 20 to 50 billion dollars in the last decade is of doubt-  
ful benefit except to the farmer who wants to sell his farm. So far  
as the increasing selling price of the land is concerned it does not  
benefit him unless he sells and what he then gains measures the  
burden imposed upon the working farmer who takes his place either  
as owner or tenant.—Ernest B. Gaston, Fairhope, Alabama.



## To Reorganize The State Board of Agriculture

As at present constituted, the Kansas State Board of Agriculture is made up of delegates elected by those agricultural and county fair associations which comply with the law in the making of required reports to that board. To thinking minds it will be at once apparent that this is a most unsatisfactory arrangement. Even if every county in the state should maintain a county fair, and comply with the law in regard to the reports the State Board of Agriculture would still be far from being representative of the farmers of the state. There never has been and probably never will be a time when each county will have a fair or maintain an agricultural society and even if this were possible, such fairs are only rarely composed of or managed by farmers. At present there are only about 48 fairs or societies which are entitled to representation on the state board, and they are not and can not be fairly representative of the farmers of the state for whose benefit the board was originally organized.

The law under which the Board of Agriculture now works was passed in 1872 and should be modified to fit existing conditions. Many progressive business men as well as farmers have realized the need for such a change but to Senator H. W. Avery of Clay county belongs the distinction of being the first to introduce a bill in the Senate with such an object in view.

The Avery bill makes the county farmers' institutes of the state the organizations entitled to send delegates to the annual meeting of the State Board of Agriculture. These county farmers' institutes are definite associations, organized under a state law which requires the members to be resident farmers of the county, who shall hold at least a two days' institute each year. The state law provides that such farmers' institutes shall also keep up their membership to at least fifty. If the county farmers' institutes comply with all the conditions of the law they receive \$50 each from the county in which they are located.

The bill provides that each county farmers' institute, which complies with the state laws governing such institutes shall be entitled to send one accredited delegate to the annual meeting of the State Board of Agriculture. There are county farmers' institutes in every county of the state at the present time. Consequently, the bill would give each county in the

state representation on the Board of Agriculture, which Senator Avery says is now made up of delegates from societies, not all of which are agricultural societies. Representation by proxy is prohibited. The accredited delegates would be required to elect a board of directors, corresponding with the present central organization of the State Board of Agriculture.

The bill also provides that the present officers of the State Board of Agriculture shall retain their offices until the board is organized under the provisions of the bill, when a secretary, president, board of directors, etc., will be elected in much the same way as at present.

In speaking of this bill and of the conditions which brought it into existence, Senator Avery said:

"Many of the organizations now entitled to send delegates to the State Board of Agriculture never had any direct connection with agriculture. They are represented by their secretaries, who are usually clerical men, and the organizations themselves are made up, not of farmers, but of men who are interested in having a fair held at some county seat town. This is not true in every case, but is true of a good many of the societies which are entitled under the present laws to send delegates to the State Board of Agriculture. My bill merely provides for the reorganization of the board in a way that will make it composed of representatives of the agricultural interests of the state."

This bill is one of the most important and meritorious measures that has been brought before the Kansas Legislature in many years and there should be no doubt about its becoming a law.

The Board of Agriculture is maintained by the taxpayers of the state for the benefit of the farmers and, through them, of all other classes and these same farmers should compose its membership, or at least have an opportunity to do so, and this they do not now possess.

The bill is not revolutionary in any respect. It does not change the present officers nor the methods of their election. It is not intended to tear down but to build up the State Board of Agriculture. It simply permits the farmers to become members of the board and permits every county in the state to be represented, two conditions which have never before existed. This bill should have the support of every farmer in Kansas.

## The Seed Grain Bill

The House of Representatives has passed a bill by which the State Agricultural College is prohibited from selling pedigreed seed of any kind for more than 30 per cent advance on market price.

Kansas has long been credited with a penchant for doing extraordinary things but this would seem to be about the limit. Should this bill become a law the college would have the privilege, after spending years in collecting new types of seed and breeding up others that are adapted to our conditions, of selling highly bred and certified seed corn for 52 cents per bushel when the crib value is worth 40 cents.

It is a serious question with some as to whether the college should engage in the retail seed business at all. In doing this, it becomes a competitor of every seedsmen who has invested his money and time and labor in producing high class seeds for his customers. However, the experi-

ments which are carried on at the college are of untold value to the farmers of the state and must be continued. Such experiments naturally result in an occasional surplus of some one or more kinds of seeds and if these are sold to advantage the college is benefited and its running expenses thus reduced.

The passage of such a law as this will compel the college to either undersell the seedsmen and so force down their legitimate profits or else to go out of business. In either case this law is a bad proposition and bad politics as well.

In disposing of the small quantity of seeds which the college is likely to have at any time it should surely have the privilege of serving the farmers of the state by being allowed to sell at the market price for seed of the same quality and not be forced into the position of underselling the seedsmen of the state.

I ran across Professor Henry's book on "Feeds and Feeding" and there saw the statement that many feeders only fed once a day. I had a set of scales put between two feed yards, and in one yard fed corn once a day and in the other, twice. I weighed the cattle in both yards monthly, and found practically no difference in gain. So for the last six years I have never fed more than once a day.—F. M. J.

## NEW LAND OPEN FOR SETTLEMENT

### 100,000 ACRES COLORADO LAND RAPIDLY FILLING UP, UNDER IMPETUS OF IRRIGATION

The final transaction in what is the largest land deal ever made in Colorado, was recently made, when there was filed for record in the office of the county clerk, in Pueblo, Colorado, a deed for the transfer of 9121.3 acres of land. This is the last tract taken over, in connection with the 100,000 acres, now being irrigated, and opened for settlement by the Pueblo-Rocky Ford Land Co., of Topeka, Kan.

The deed for these 9121.3 acres was signed by J. F. Welburn, president of the C. F. & I. Co., and transfers this land, which was owned by the Colorado Realty Holding Company, a subsidiary company of the Colorado Fuel & Iron Company, to the Pueblo-Rocky Ford Land Company.

The deal was arranged by the Tallmadge Brothers of the Pueblo-Rocky Ford Land Company, and J. F. Welburn, president of the C. F. & I. Co. and the Colorado Realty Holding Company. The land transferred is under the irrigation ditches of the purchasing company and lies southeast of Pueblo. The tract is bounded on the west by the slag track of the Colorado & Wyoming Railroad and extends easterly to the St. Charles river. The south limits of the tract extend to the reservoirs of the C. F. & I. Co., six miles south of Lake Minnequa. On the north the tract reaches within a half mile of the Arkansas river.

The land is highly fertile and when the water from the Pueblo-Rocky Ford Land Company's ditch is applied it will prove highly productive. Adjoining the land on the north are some of the most valuable farms in the state, and land under cultivation surrounding the big tract is valued at from \$500 to \$1,000 per acre.

The tract will be subdivided into small farms and sold with water rights by the Pueblo-Rocky Ford Land Co. The entire acreage is to be placed on the market at once.

In connection with the opening of these fertile lands, to settlement, the following from a recent issue of the Pueblo Chieftain is of interest. It shows that this land is being made, of the utmost desirability to those who may be so fortunate as to get hold of some of it:

"Within the near future another railroad will be steaming into Pueblo from one of the most prosperous farming communities in the United States. Its freight of grain, fruit and cattle will be unloaded on the Pueblo market for disposal on the markets of the country. Yesterday the first actual work done on the Pueblo and Southeastern railroad was done and within nine months, it is said, trains will be entering the city from Wilson, the capital of the Pueblo and Rocky Ford Land Co.'s hundred thousand acre tract.

"The Pueblo and Southeastern will connect Pueblo with one of the most scientific and successful man-made farming communities in the United States. Its propensity is almost startling but when completed it will stand out as one of the greatest achievements of western settlement. The Pueblo and Southeastern railroad is but one of several gigantic undertakings which B. H. Tallmadge, C. L. Tallmadge and F. C. Tallmadge of the Pueblo and Rocky Ford Land Co. have fostered in order to make of their hundred thousand acre tract one of the most attractive to the prospective investor and when it is completed it will be one of the factors in the shipments of crops, fruit and grains of the Arkansas Valley that will make the other railroads in the valley look unto it as a brother and for that reason if no other it is an undertaking which will have the greatest of good effect on the community of Pueblo, as well as of the farmers who will find affluence in the occupancy of the land thus favored.

"Yesterday twenty-one surveyors, chain men and members of a complete engineering outfit left Pueblo under the personal direction of W. D. Garwood to start work on laying of the grade for the new railroad. The route has already been selected and it remains but for the engineers to

put their O. K. on the ground by marking the fills and cuts before the big gang of laborers that are already engaged to start the work of creating the grade.

"A start will be made at the St. Charles river and from that point the engineering gang will work both ways.

"Though the Pueblo and Southeastern will be only forty miles in length to begin with it will be built in a manner that is best suited to the lay of the hundred thousand acres in the Pueblo-Rocky Ford tract. Any farm on the great tract of land will be within a short wagon haul of the railroad.

"It will bring to Pueblo the crops of one hundred thousand acres of land that are now lying idle. It will be the means of transportation for twelve to fifteen thousand families between Pueblo, the capital of the valley and the farms of the new district.

It will be the link that connects Pueblo's business men with the new district's wealth. The Pueblo and Southeastern will bring to this city the bulk of the earnings of the great tract of land, the earnings of twelve to fifteen thousand families, either to Pueblo's stores or Pueblo's banks. Already the town of Wilson has shown signs of being a real live corporation. A hotel is built there and there are several mercantile houses. There will be more and their stocks will come largely from the wholesale houses of this city via the Pueblo and Southeastern.

"When asked if he intended having any ceremony in connection with the driving of the first stake, B. H. Tallmadge, president of the Pueblo and Rocky Ford Land Co. replied, 'None at all. The Pueblo and Southeastern will be its own shining stake.'

"For almost a year the Pueblo-Rocky Ford people have been going ahead in a quiet way spending large sums of money on actual construction work in connection with their irrigation system, and the work has now reached a stage where the company wants representative men from everywhere to see it for themselves."

Of the 100,000 acres in this tract, 50,000 acres are being first developed for irrigation. Dams, reservoirs and ditches are just now being finished for turning water on the first 50,000 acres. Ample water has been provided, as well as the means for a ready and constant distribution of it. Of this, the following shows what has been done:

E. R. Chew, State Division Irrigation Engineer of Colorado, District No. 1, who went over the Pueblo-Rocky Ford Land Company's project Tuesday, January 31, in an interview in the Pueblo Star-Journal, said: "I never inspected an irrigation project where the work was of a more substantial character or where the engineering part of the construction work has been so excellently planned and executed. The company has an irrigation project ample for its needs for all time to come. They will have all the water they need. Their project will afford irrigation to every acre of land under their ditches. They have spared no expense which would tend to better their project. The enterprise means a great deal for Pueblo and the Arkansas Valley and the promoters deserve the hearty support of Pueblo and the entire Arkansas Valley."

Farmers from Kansas, Nebraska and Oklahoma are visiting this land on every excursion, and few come, who do not buy a farm, after personally seeing it. All the land is sold on easy terms of 10 per cent of the purchase price paid down, and the balance in 20 annual payments, with only 6 per cent interest on deferred payments. Or if the purchaser wishes to pay cash down, in full, a reasonable discount is allowed.

Excursions to this land are run from the east the first and third Tuesdays of each month. The next excursion, going through Kansas, will run February 22. Full particulars of rates, accommodations, descriptions of land, etc., are available to all who write the Pueblo-Rocky Ford Land Co., New England Bldg., Topeka, Kan.

## FEEDS ONCE A DAY

The first great thing in feeding is economy of production. Many farmers in making their calculations as to whether some of their farming pays, take no account of labor. As all labor on my farm is hired and as I never do any manual labor myself, it leaves me in all my farming operations to first of all get my laborers on to a straight business proposition. Years ago I used to feed my cattle corn twice a day, until one day



# Better Teachers in the Common Schools

By E. M. CULTER, State Normal, Emporia



## \$1.50 House Dress of Checked Percal \$1.00

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21 G 12 "What would the material alone cost?" It would cost you \$1.00, Madam, to say nothing of the making. The regular price of a house dress of this quality could never be less than \$1.50—this special price of \$1.00 is simply to acquaint you with "NATIONAL" values.

This one-piece dress is made of Checked Percal, and, first of all, it is made of excellent quality material that will launder well and wear splendidly. The front of the waist, where the closing is effected, has plaits at each shoulder, stitched to yoke depth, which gives the necessary fullness to the model. The jaunty turned-down collar, the breast pocket and the buttoned cuffs that fasten the full-length sleeves are made of plain color material. A belt of the material joins the waist to the skirt, which closes at the left side front with pearl buttons. Skirt length about 40 inches. Colors: Blue and White check; or Black and White check.

Sizes: 32 to 44 bust.

It is a very easy thing to order this house dress. Just put a one dollar bill in an envelope and state the size and color desired. We will send the dress to you at our risk of your being pleased.

Special friend-making price, \$1.00.



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**NATIONAL PITLESS SCALE CO.**

While it is good to have better laws so that the schools will not suffer for want of money to properly equip them; while it is important to have good school houses, for they may exert healthy influence of the educational interests of the community; yet the laws may become a dead letter and a poor school may be had in a very good school house. The superintendent is an important factor in our school system in so far as he vitalized it. If he is simply an office clerk, he is of little use to the schools, indeed, if he does not arouse enthusiastic co-operation on the part of his teachers, he comes far short of his possibilities.

Every other feature of the school may be of the very best, but, if the teacher is incompetent, there is a poor school. After all, the teacher is the important element of a good school. It is the teacher who vitalizes and gives tone and color to every department of school work. If the recitation is interesting; if the children are pleased with their geography or arithmetic; if the sports on the playground are vigorous, healthy and pure; and finally, if the community takes a lively interest in school affairs and upholds with its money and its influence the best things in an educational way, it is because the teacher or some teacher is back of all these things with his personality and is pouring his life freely into the work of education. In short, it is the good teacher that makes the good school. It matters not how poor the house may be, it matters not how different parents may be, a live teacher will make a live school.

If it were possible to fill all the schools of Kansas with teachers as good as one whom the writer has in mind it would bring about a revolution in one generation. The cost in dollars and cents would not be a consideration. Why, may be asked, are there not plenty of such teachers? In reply it may be said that there are not many such teachers for the same reason that the farmers of Kansas are not raising fifty bushels of corn to the acre. There are two reasons why Kansas does not produce an average of fifty bushels of corn to the acre; the first is that climatic conditions are against such a yield and the second reason is, that farmers have not or can not successfully combat these conditions so as to cause the ground to bring forth such a yield. There are few farmers who will claim that Kansas is raising as high an average of corn as possible; for similar reasons we have not as many good teachers as we may have, conditions have been and are against us, but we can do better.

In the first place, every teacher should have a good education, should be well grounded in the common branches. No teacher should step into the school room who does not know arithmetic, who does not know how to write a legible hand and compose a readable letter. But this is not enough. No one can teach all he knows. One must have some reserve force, some stock on the shelf, so that the teacher should know something more than the arithmetic of the text book, he should know something of algebra and geometry, the things on which most of the arithmetic is based. They will also improve his mathematical thinking, save him the humiliation of not being able to work and explain a problem. What is true of mathematics is true of other subjects also. The time is close at hand when every teacher should have a high school education or its equivalent before they receive a license to teach.

Some very learned people are unable to teach what they know to others, so along with this knowledge should go the ability to impart it to others. It has been found that while some seem to be natural teachers and can instruct without a special training, others must study the art and science of teaching before they undertake the important task of imparting their knowledge to others. And we know also that all are improved by such study. Hence young teachers should take normal training

just as the young man who expects to be a physician studies medicine after he has taken his academic course. If the doctor who administers to our bodies must study the art of medicine, why should not the one who expects to be a teacher, who expects to direct and train an immortal soul, study the art of teaching? The crying need of the hour is trained teachers. One of the hard problems to meet is how to furnish competent and well equipped teachers for the rural schools. Many of our country schools are willing to pay better for well trained and experienced teachers.

Kansas has taken a step in the right direction in this regard. There has never been a law put on the statute books that will do more for the rural schools than the one providing for the normal course in the high schools. For an expenditure of fifty thousand dollars there was given to the schools of the state between six and seven hundred teachers. This was the result of the first year's operation of the law. These teachers are quite well equipped too, much better than the average young person who begins the work of a teacher. Then too, most of these young people have gone into the country schools, and the majority will continue to go there for some time to come. The city school will be able to command the teacher of experience yet a while; and, if the deficiency in the rural school can be filled with well equipped young people, although they have had no experience, conditions will be much better than at present. Here's hoping that the coming legislature will nobly uphold this law with a generous appropriation.

In the years past the mistake has been made in that all teachers were trained as if they were to teach in a graded school. It would have been more sensible to have trained all of them for the country school, for the city teachers, as a rule, are the older, more experienced, and could the more easily adapt themselves to the changed conditions from country trained, to city practice. But our normal schools, our teachers and instructors in county institutes have been training these young people for graded work and then they have gone into the mixed school, they have been expected to apply the instruction for graded work to the conditions of ungraded schools. Some have come out all right, but it has in most instances been in spite of teaching are the same for all classes of schools; it is true that child psychology is about the same for all children, but it is also true that the conditions under which teaching is done are quite different in a mixed country school than they are in a graded city school. It is one thing to organize a room of two classes and quite another to manage and get into running order, a room containing seven, eight or nine grades. It is one thing to make a program for two grades and quite another to make a program for seven grades. These and many other things go to show that teachers of country schools need rural school management, and not city school management. The ones who need this most are the ones who have been raised up in the graded schools and are going to teach in the rural schools of the country. If there is any place our high school trained teachers will fail it is right here. A good many girls from the city schools will be going into the country schools, and they will need to be especially trained and instructed in rural conditions. The country girl with the same advantages will do better than the city girl in a rural school, and it is perfectly natural that it should be so, for she has grown up under rural conditions. The country schools need teachers in sympathy with rural conditions, she should be well posted in agriculture and the domestic science of the country home, even though these are not among the studies of the curriculum. There is no room in the country school for the Boston girl who went into extacies over her uncle's "hand painted barn."



**Care of Horses' Shoulders.**

Sore shoulders are, as a rule, due to an improper fit in collar or hames. Occasionally uneven surface or hard lumpy areas in the filling may be the cause, or improper care of the horse in early spring before the skin and underlying tissues have become hardened to the collar pressure. Diseased conditions of the foot or limb may cause sore shoulders from an abnormal gait. A horse's collar should be fitted with greater care than a pair of patent leathers on an aggregation of bunions, corns and ingrown toe nails. Why? Because the horse has no means of making his pain known to the majority of drivers while the wearer of the patent leathers can "grin and bear it," consoling himself with the thought that his understanding shows up well even if his face does wear a peculiar, puzzling expression. The collar should be well made with a fair amount of springiness on pressure, smooth even surface, and adapted to the use required; as for instance a heavy collar for heavy draft work while a lighter one can be used for driving horses. Let it be sufficiently long that the hand may be easily passed beneath the under surface of the neck and wide enough that the fingers can just be passed between the front border and the side of the neck.

This rule varies somewhat of course in the various types of horses, as some thick necked horses expand the neck when drawing a load. These will require a slightly wider collar. Let the collar fit snugly over the entire bearing surface. Having fitted the collar next comes the fitting of the hames to the collar and the proper adjustment of the height of the attachment of the tug. A good rule to follow is to have it come about one third of the height from below. This we consider the angle at which the tug may need to be varied somewhat as the hook passes from the hame and whether the horse has a free or check rein. In well made hames this hook passes out at a right angle and is easily adjusted. If placed too low the point of the shoulder shows just in front of the upper part of the shoulder blade. Occasionally a sore neck results from this cause but rarely if the collar is of the proper length.

When sores occur, seek the cause, correct it, then aid nature in effecting a recovery. Having removed the cause wash well after each day's work and dust with any good antiseptic powder or, easier still, dampen well after washing, with a solution of bichloride of mercury and tannic acid. Dissolve two bichloride tablets and a tablespoonful of tannic acid in a quart of soft water for this purpose. It will keep for a week, costs but little and is easily applied.

Brushing powder made up of borax and tannic acid are equally effective. Zinc oxide may be used. Dry sulfur and air slaked lime is a favorite mixture with some and is quite good. See that each horse's collar is clean each morning before putting it on. If a sore is present, stop after a short time and remove the scab or granulations that may have accrued to the collar at that point.

Prevention is worth the proverbial amount of cure and consists in carefully fitted collars. The use of pads is largely a matter of choice and we are free to confess that in twenty-five years of experience in handling work horses we consider the arguments pro and con as about even. We have made it a rule to use pads only with the smaller and lighter collars when used in heavy work. Galled shoulders frequently result from the use of a sweat soaked pad or one wet in a heavy rain.

Careful washing of the shoulders with some astringent solution during the first few days of early spring work toughens the skin, lessens the action of the sweat glands in that region and gives many a faithful horse relief from the daily torture of a sore shoulder.

Sore necks in horses are due usually to one of two causes; a short collar or to too great weight coupled with the side motion as noted in a wheelbarrow. A horse can carry quite a heavy weight on the neck provided there is no jerking or twisting. Treatment is the same as for sore shoulders, remove the cause, wash well and treat with an antiseptic and astringent wash or powder.



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easy to haul; spreads thinly or thickly and always evenly, from start to finish; has positive force feed; pulverizes thoroughly; doesn't bunch; has a changeable feed, operated without stopping the team; automatically balances the load; is so simple of construction and so easily operated that any boy, who can drive a team, can run it.

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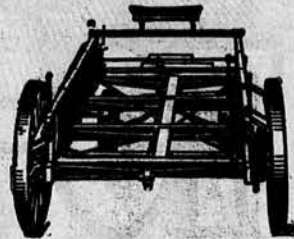
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The frame is the foundation of a manure spreader—it must stay square and level or the machinery parts will soon stop working right. Our frame is made of solid oak—every piece is carefully selected, every piece well seasoned. It is braced and trussed by steel rods, so that it is always square and always level, all the time and under all conditions. There is no other wood as good as oak for this purpose, and there is absolutely no other frame equal to the Appleton. See the picture—that will convince any practical man.

The Frame That's Always on the Square.

Here's a combination of the toughest wood, the strongest metal and common sense.



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In motor cars, one-fourth the tire cost is due to rim-cutting—one-fourth to overloading.

We have perfected a tire which can't be rim-cut—called Goodyear No-Rim-Cut tire. And, to prevent overloading, we are making that tire 10 per cent over the rated size. The use of this tire, with the average car, means to cut tire bills in two.



The 126 Braided Wires  
The No-Rim-Cut Tire

This picture shows a Goodyear No-Rim-Cut tire as it fits any standard rim made for quick-detachable tires.

When you use this tire the removable rim flanges are set to curve outward—as shown in the picture.

The tire comes against the rounded edge, and rim-cutting is made impossible.

We have already sold half a million Goodyear No-Rim-Cut tires. We have run them deflated in a hundred tests—as far as 20 miles. In all this experience there has never been a single instance of rim-cutting.

All the worry of rim-cutting—all this ruin of tires—is avoided forever with No-Rim-Cut tires.

### Ordinary Clincher Tire

Before the invention of No-Rim-Cut tires the clincher tire was almost universal.

With clincher tires, the removable rim flanges must be set to curve inward—as shown in the picture—to grasp hold of the hook in the tire. That is how the tire is held on.

Note how those thin flanges dig into the tire. That is what causes rim-cutting.



The Cause of Rim-Cutting

In event of a puncture the tire may be ruined beyond repair in a moment. Fully 25 per cent of all tire cost has been due to the ruin of rim-cutting.

### How We Avoid It

We have invented a tire with an unstretchable base. We vulcanize into the base 126 braided piano wires. Nothing can possibly force this tire over the rim flange. But, when you unlock and remove the rim flange, the tire slips off in an instant.

When the tire is inflated the braided wires contract. The tire is then held to the rim by a pressure of 134 pounds to the inch.

That is why the hooks are not needed. Not even tire bolts are needed. The tire base is unstretchable—it can't come off.

This feature we control by patent. It is the only way known to make a practical tire with an unstretchable base. It gives us the only safe hookless tire—the tire that can't be rim-cut.

## Tires 10% Oversize

Look again at the pictures. Note how the No-Rim-Cut tire begins to flare right from the base of the rim. It isn't contracted farther up as is the clincher tire.

That fact enables us to make No-Rim-Cut tires 10 per cent wider than rated size and still have them fit the rim. And we do that. We give you this 10 per cent extra tire without any extra cost. That gives you 10 per cent more carrying capacity. It adds 25 per cent to the tire mileage.

That extra size takes care of the extra weight—the top, glass front, gas tank, extra tire, etc.—which most owners add to their cars. It is this overloading which causes blow-outs, and this extra size avoids them.

When you get a Goodyear No-Rim-Cut tire you get rid of rim-cutting entirely. You get a tire 10 per cent oversize. And all without extra cost. These two features together, with the average car, save half on one's tire bills. This is the reason why the tire demand is turning so strongly to Goodyear No-Rim-Cut tires.

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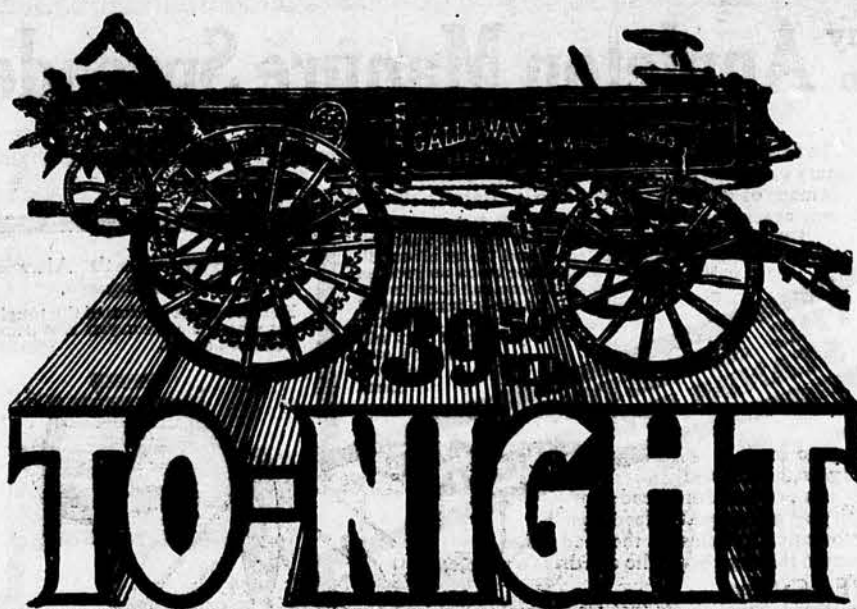
We Make All Kinds of Rubber Tires

About three things are necessary in a good cow stable. Have the hay mow floor tight, so the dust will not sift

down on the cows' backs. Have the walls tight, so there will not be any drafts for the cows to stand in, and

then have good ventilation. This is best secured through the King system or some modification of it.





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- 2—My New Net Results Bulletin
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Good Stuff

I don't care what prejudiced dealers who are sore because they can't get from 30 to 50 per cent take-off may tell you about my machine. There never was nor is there today a Manure Spreader on the market at any price that will haul as much manure with as little resistance to man and team as the Galloway, and we let you prove this yourself by a THIRTY-DAY TO TWELVE MONTHS FREE TRIAL against the whole field.

In addition to the best Spreader, I have the Best Price Proposition a factory with an annual capacity of 40,000 complete machines can make. Here's what I charge you—my 1911 prices are based on—

- FIRST—The actual cost of material bought in tremendous quantities.
- SECOND—The actual cost of our pay roll every Saturday night.
- THIRD—One very small profit, based on this tremendous quantity and sold direct to you. That simply is the secret of our low price. I don't need to make much on each one, do I? Figure it out for yourself. I make them all alike on automatic machinery with dies and jigs turning out thousands of perfect pieces all alike with the same operation on huge, expensive machinery, and that's the whole story. When you consider how I make these machines, then the quantity, then the system on which I sell them, there is no wonder that nobody can compete with me, and they never can compete with me unless they make them in the same way and sell them in the same manner. I can sell them to you for less money than some factories can make them at first shop cost.

The quality is there, too, and don't you forget it. Our trial to you will prove that. Just write me that postal card now—tonight—for full information and particulars. Yours'll be released with what I have to tell you on this spreader subject.

My 1911 offer surpasses all previous offers. I don't care what spreader you are figuring on buying, you can't afford not to get my proposition first.

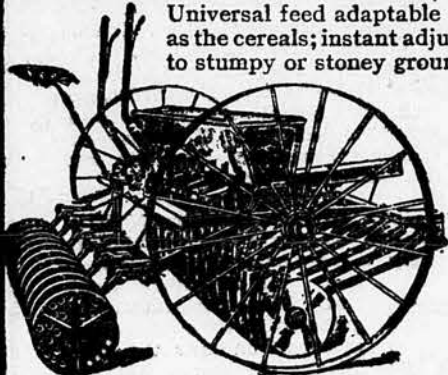
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# LIVE STOCK



Feeders generally started in this season on an uphill pull, but the weather conditions have been so favorable and prices of both live stock and feed stuffs have so adjusted themselves, that they are now beginning to see their way out. There is still no great amount of easy money to be made in the feeding game under present conditions, but feeders are receiving returns for their work and investment. Money has been made on cattle this season, more because of the favorable weather, which permitted large and quick gains and an early marketing of the stock, than from any other reason. There still exists a big demand for breeding cattle, though this demand is overshadowed by that for breeding hogs and for dairy cattle. The demand for the latter does not seem to be likely to be satisfied soon.

### The Central Shorthorn Breeders Association.

The fourteenth annual meeting of the Central Shorthorn Breeders Association, which was held in Kansas City recently, was most interesting and very enjoyable, although the attendance was not so large as it should have been. A number of interesting papers were read, and matters of routine business discussed and acted upon, and those who attended went away feeling that it was good to have been there. Perhaps the most important action taken by the association was that in which they accepted the invitation of the Kansas City Stock Yards Company and the Hoof and Horn Club of Kansas City, to make the permanent headquarters of the association in that city. Under this action all future meetings of the Central Shorthorn Breeders Association will be held at Kansas City, probably in the new Live Stock Exchange Building.

The officers elected for the ensuing year were as follows: President, Gov. A. C. Shallenberger, Alma, Neb.; vice president, J. F. Stodder, Burden, Kan.; secretary-treasurer, B. O. Cowan, Chicago.

This association has a real mission in the world and should receive the hearty support of every Shorthorn breeder in the corn belt. Its annual dues are merely nominal, and the returns received by its members in their annual meetings are highly valuable to each individual.

### The Cost of Silage.

It is difficult to write the value of silage in terms of money, for the reason that many of its properties which have an actual obvious value cannot be so measured. For instance, while an analysis will show probably no more food units than many another food, silage has succulency, giving it much of the properties of grass. This means that the stock will eat more of it and assimilate it more readily. Still one cannot express that value in figures. It takes far less storage space than hay or other feeds, pound for pound of nutrient quality, a saving in storage space and the cost of buildings and their maintenance. Large herds can be fed in a short time with little labor, clearly a saving. Another and far greater consideration to the dairy farmer is the increased production of milk from the feeding of silage. It has been proven beyond controversy that cows may be made to produce milk in a constant quantity the year around by the feeding of silage. Yet many of the creamery men will tell you that they are receiving more than half of their butter-fat in three months of the year. By the silo the farmer is enabled to put butter-fat on the market when it is worth the most. The silo is one of the scientific developments which is making the farm a source of dividends the whole year around.

### REPLACES THE PASTURE.

In one of the most productive dairy districts of Wisconsin many of the dairymen own no pasture. They

feed winter and summer on silage. The success of the Wisconsin dairymen is a sufficient argument.

The necessity of the silo is highly apparent. The reduction of pasture acres, the high cost of corn and feeder cattle has made it a serious question if there is a profit in making beef out of corn. In fact, many stock feeders have suffered actual losses.

The value of feed has been doubled in the last ten years. The cost of corn is more than twice as high. The farmer is not getting twice as much for his stock. Still I think that he is getting enough. The problem has reduced itself to scientific feeding and the elimination of waste. The silo is a solution of that problem.

Professor Haecker of the University of Nebraska, gives the following figures on the cost of production of silage, compiled from reports made by silo makers in Iowa, Nebraska, Kansas, and Wisconsin:

|                                                               |         |
|---------------------------------------------------------------|---------|
| Rent of land, per acre.....                                   | \$ 4.00 |
| Plowing and harrowing, per acre.....                          | 2.00    |
| Seed corn, per acre.....                                      | .25     |
| Planting, per acre.....                                       | .25     |
| Harrowing and cultivating, per acre.....                      | 2.25    |
| Total, per acre.....                                          | \$ 9.00 |
| Average yield per acre, tons.....                             | 11      |
| Cost per ton to grow.....                                     | \$ .82  |
| Eleven men at \$2 per day.....                                | 22.00   |
| Seven teams at \$2.25 per day.....                            | 15.75   |
| One traction engine, per day.....                             | 7.50    |
| Engineer.....                                                 | 2.00    |
| Coal.....                                                     | 3.00    |
| Board for men.....                                            | 6.00    |
| Total.....                                                    | \$57.50 |
| Silage cut per day, 75 tons; cost to put in silo per ton..... | \$ .76  |
| Interest on money invested in silo.....                       | 25.00   |
| Interest on money invested in machinery.....                  | 12.00   |
| Depreciation and repairs on silo and machinery.....           | 30.00   |
| Taxes and insurance.....                                      | 6.00    |
| Total.....                                                    | \$76.76 |
| For 150 ton silo.....                                         | \$76.76 |
| For machinery and storage, per ton.....                       | \$ .49  |
| Cost of growing, per ton.....                                 | .76     |
| Cost of putting in silo.....                                  | .76     |
| Total cost of corn silage, per ton.....                       | \$1.01  |

These figures are certainly liberal and in some localities I think the cost can be reduced. When corn silage can be put up at a cost of less than \$2 per ton, giving the farmer and feeder something worth from \$5 to \$6 per ton it should not be long before every farm where there are dairy or beef cattle has the silo. Experiment stations tell us that 40 per cent of the value of the corn crop is in the stocks and leaves. This saving is what will pay for the silo in one year.—E. H. Clark, Lincoln, Neb.

### A Strong Test of Merit.

The very fact that an implement has been continuously on the market for half a century should inspire a purchaser with confidence in it and in its makers, for no implement could remain on the market for that length of time and still grow in popularity unless it would do all that its makers claimed.

The word "Hoosier," when seen on a grain drill, stands for "quality," because Hoosier Drills will do all—yes, more—than is claimed by their makers. These grain drills are in use today in every country where small grains are grown. Hoosier Drills are made in all styles and sizes, in order to successfully meet the seeding conditions in every part of the world. Any style furrow opener can be had—single disk, double disk, hoe or shoe Drills with and without press wheel attachments; Press Drills, Broadcast Seeders—in fact, any style that is wanted—can be found in the Hoosier line. These Drills are manufactured by The American Seeding-Machine Co., Incorporated, Richmond, Ind.—a company that has had more than a half century of experience in the making of seeding machines—a company that gives a guarantee to every purchaser that means something. Send for a Hoosier catalogue, then go to your local implement dealer and insist on seeing the Hoosier—the drill that never disappoints—the drill that does all and more than is claimed for it.

When a grasshopper loses his tail per does he get hopping mad?



**Durocs Did It.**

many of the prizes awarded at the Western National Stock Show held at Denver, Colo., last month had been carried away by Kansas men. Mr. Arthur Saum, of Norton, was one of these prize winners and here is what he says about his prize winning hogs: "I raised 86 pigs from 11 sows and from these pigs selected 11 head for brood sows and meat. The remaining 75 head we sent to the Western National Stock Show at Denver, Colo., last month. These hogs averaged 323 pounds at Norton on January 14 when shipped. They were farrowed April 10 to 20 and were 9 months old. We showed in classes 44 and 45. In class 45 we took first prize and championship and sold for \$10.65 on an average weight of 330 pounds. In class 44 we took second prize and reserve championship and sold for \$9.20 on an average weight of 288 pounds. We are proud of the Durocs as we showed against 29 carloads of hogs of all breeds."

**Some Suggestions on Oats Culture.**

Sow oats on fairly fertile land but not too fertile, because the crop may lodge when grown on very fertile land.

Sow early, the earlier the better, even risk sowing in February or March before spring really begins if weather and soil conditions become favorable.

Sow early maturing varieties of oats, preferably those varieties recommended by the State Experiment Station. Among the better producing varieties are: Red Texas, Kherson, Sixty Day, and Burt, the two latter being especially adapted for the drier portion of the state.

Grade your seed oats by the use of a good fanning mill or grain grader and sow only plump, heavy grains. This will make the crop much surer and the yield larger, and by continuing the practice every year a variety well adapted to the climate and soil should not "run out," but rather improve in hardiness, and productive-ness. Prepare a well-settled, well pulver-

ized seed bed. Early fall plowing, surface tilled during the winter and early spring preferred, or clean corn stalk land well disked and harrowed but not plowed. Oats may also follow cow-peas or soy beans without plowing.

Spring plowing for oats is usually not desirable. The soil may be too wet to plow well or after plowing it may become too loose and in bad physical condition. Occasionally winter plowing and very early spring plowing with the soil in ideal condition may give good results.

Prefer planting with grain drill at the rate of 2 to 2½ bushels of good seed oats per acre, covering the seed to a uniform depth of 2 to 3 inches.

If possible harrow once lightly before the oats come up.

If seed oats are infested with smut it is advisable to treat the seed to destroy the smut, using formaldehyde treatment, after securing bulletin from the Experiment Station giving information regarding its use, or it may be advisable to change seed oats, securing smut free oats from other sources. This is especially advisable if your oats are 'run out' or are light weight. The Experiment Station can furnish names of growers of college bred seed. Also the Fort Hays Ranch Experiment Station, Hays, Kan., has a considerable supply of seed of several varieties named above for sale.

Commercial fertilizers can be used to advantage as a rule in the growing of oats, by direct application to the soil. Better fertilizer preceding crops than the use of barn yard manure or by process of rotation including soil fertility maintaining crops, such as cow-peas, clover and alfalfa and grasses. I can mail you circulars giving information on these subjects.

The several factors mentioned above are more or less concerned with the successful growing of oats, but with good seed and other conditions equal, early seeding is the principal factor which determine the success of the oats crop in this state.—A. M. Eyck, Professor of Farm Management, and Supt. Western Kansas Ranch Experiment Station, Hays, Kan.



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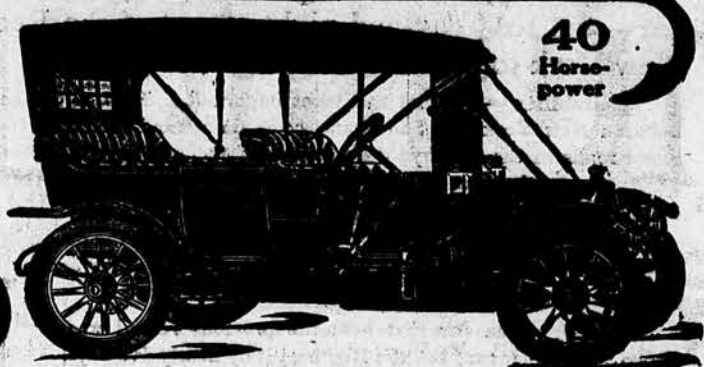
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these wagons are at our factory prices, freight prepaid. We have a 30-acre plant—our own saw mill, foundry, paint mill and all. A million dollars worth of lumber always seasoning. Hickory, air-dried for years for axles, eveners, whiffletrees and neckyokes; finest black birch or white oak hubs; select hickory or choicest oak spokes; best white oak bolsters, sandboards, reaches, brake bars, felloes and bounds; special extra large, straight grained oak tongues, every piece of lumber the best that money, spot cash, will buy, then inspected, seasoned for years, and reselected and examined for flaws at every stage of development. All iron and steel work watched with equal care—every detail made right regardless of cost to us, down to the painting and finishing, which is done by hand, in five different operations.

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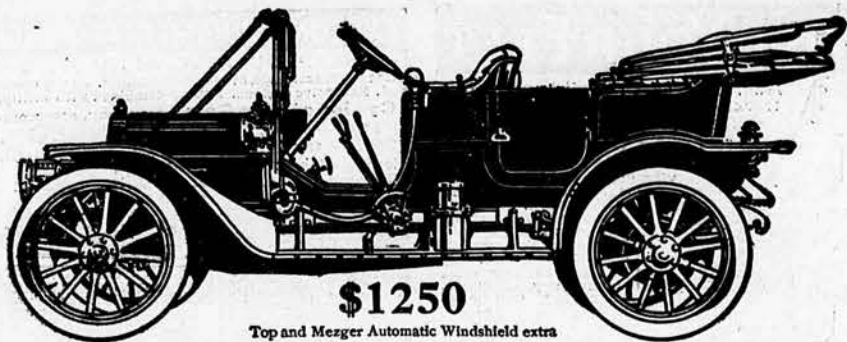
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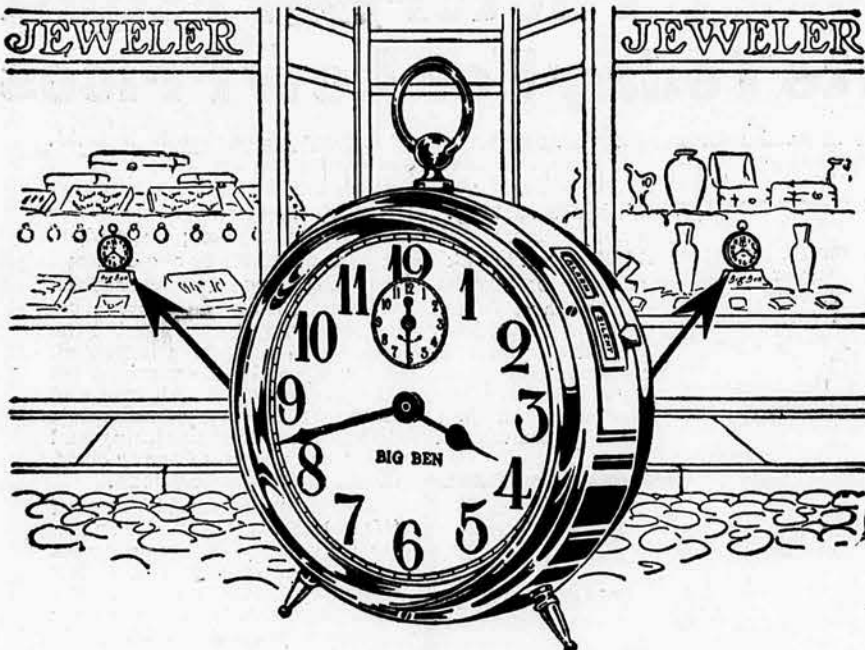
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I shouldn't really be called an alarm clock for I never "alarmed" anyone out of bed in my life.

I look like a *big watch*. I'm practically *handmade* like a watch and I keep *watch-time*. I've got a regular *watch escapement* and the *escapement* is the *heart of every watch*. I tick lightly and fast like watches do—not

heavily and slowly like common alarm clocks.

I must run for six days under inspection and *keep accurate time* all that time before I leave the factory.

I've an inner casing of steel, so I'm dust-proof and *ox-strong*.

I've a handsome triple-plated non-rustable case—"thin model" style, like the newest watches.

Hear me ring the "National Call to Breakfast"—at intervals for fifteen minutes or steadily as you choose. Note how *cheerfully* my breakfast bellings out. Then hand the jeweler \$2.50 and take me home.

I'm sold only at jewelers.

If you want to be "first in the field" have me—*Big Ben*—wake you in the morning.

## BIG BEN

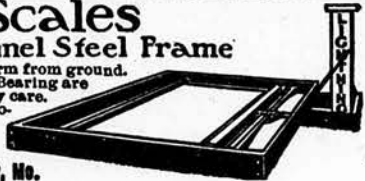
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# THE FARM



### Purchased Ensilage.

"The ensilage I bought from Nelson Davis was from upland corn, cut too late in the season, lay in the field several days and was not wet down nor sufficiently packed in the silo. But it is fine feed. My milk cows eat it clean except the lower joints which dried in the field and lost their food quality. My cows thrive on it and maintain a good flow of milk. I believe in silage for any kind of live stock. Some dainty feeders need to have bran, shorts, chop or something dampened on the ensilage a time or two, then they are always ready and calling for it."—M. G. Wells, Eldorado, Kan.

### The How of Ensilage.

"Let the corn mature. Let all the elements of nutrition be fixed in both the stalk and the ear and then can it in its own rich juices. We may not be able to solve all the problems of the markets, but we can provide cheaper, better feed at less manual labor cost in the use of machinery. Economy of crop growing and saving on a less number of acres must be the dominant thought in future farming operation.

"When we look at the great fields of shocked corn we realize that in them our forefathers under prevailing conditions gained wealth. But now we know because the chemist has taught us that they, and we who continue to feed fodder, have been wasting 40 per cent of our corn crops. The corn stalks that strew our feed lots represent wasted labor and food products."—J. T. Paul, Wichita, Kan.

### Cost of Line Fence.

A. and B. own adjoining farms. A's farm has improvements such as are necessary for him to live there and keep stock, etc. His farm is fenced all around. B's farm has no improvements of any kind on it and is used simply as a grain farm. In this case could A. compel B. to put in one-half or any part of the partition fence between these two farms?—A. A., Reno County, Kan.

If the fence were being built on the line between the two farms A could compel B. to pay for one-half the cost of building it. If the fence is an old one and on the line A can have viewers appointed to appraise its present value and compel B. to pay one-half of that. In any case it is the duty under the statutes of Kansas for B. to bear one-half the cost of the division fence and also one-half the cost of keeping it in repair. The latter can be managed in two ways. Either the fence can be built and maintained as a whole and each party share in the expense or the owners may divide the fence into equal parts and each be responsible for the construction and maintenance of his half. The law in this case is plain and B. must bear his share of the cost.

### As to Timber Claims.

A friend of my has just bought a timber claim and wants to know if he can grub the timber all out. Wouldn't that be against the law?—J. A., Clay Center, Kan.

If the law has been complied with and a patent for this land issued by the government it becomes private property to be handled according to the pleasure of the owner. If this land was bought under deed the ownership becomes absolute and the purchaser has a right to grub up every tree on the place if it suits his pleasure to do so. I might not agree as to the wisdom of such a plan but the right exists. On the other hand, if the purchaser has only bought a relinquishment and the timber claim laws have not yet been complied with and no patent issued by the government, then he would lose the land if he should grub up the trees. The question is not plain in that it does not state whether the land is deeded to the purchaser or where it is located. If it is deeded land the trees may be grubbed out.

### Kafir for Ensilage.

"I had 22½ acres of Kafir corn which ripened unevenly. The first I put into the silo was all green and the seed fairly ripened; however, some was only fairly in bloom; the last of it was frosted and the leaves were dead but the stalks were soft and all seems to have made excellent ensilage. It took me three days to fill my 120 ton silo with a 3-knife cutter and an 8-horse power gasoline engine. When everything runs smoothly we cut and stored seven or eight tons per hour with four teams hauling. My labor bill alone was about \$37.50. The total expense per ton was 59½ cents, counting my own labor. I got up my silage October 15 and began feeding it November 1. All my stock eats it readily. I am feeding 14 two year old heifers and some cows on Kafir silage alone, should think 40 pounds to each per day. My cutter cost \$175, engine \$375. Mine is a pine stave silo, capacity 120 tons. I put no top on it. When filling was finished I went to the top of the ensilage with seven barrels of water and trod it down tight. Corn probably makes more and better silage but Kafir, a sure crop and a good one on our uplands, is mighty good."—W. H. Ferguson, Augusta, Kan.

There is more need for moisture to be put in an incubator in winter time than in the summer. This is particularly true if the incubator must work in a cold room. Moisture is evaporated from air by raising the temperature of the air. Air warmed up from 50 degrees to 103 degrees loses moisture faster than air warmed from 75 or 80 degrees to hatching temperatures.

Answering a demand for crushed limestone for application to sour soils and for use in other farming operations, Representative W. J. Burris of Wilson county states that some of the cement manufacturing plants in his section of the state are now crushing limestone rock for agricultural purposes. This rock is crushed unusually fine so that the larger particles are about the size of a pea, while the great bulk is in the form of dust. It is said to be much more satisfactory for application to land than air slaked lime, because it benefits the soil mechanically and its fertilizing value, it has any, is much more lasting while its power of sweetening soils will continue over for several seasons.

With the great increase in interest in the silo have come a number of inquiries as to materials which may be used in the manufacture of ensilage. Experience has taught that almost any farm crop can be used for the making of ensilage, though Indian corn is undoubtedly the best, with Kafir corn or milo maize as a close second. Alfalfa has been used successfully, either alone or alternated with corn, and it makes good ensilage. Cow-peas and soy beans have also been successfully used. The problem which confronts the Kansas farmer, however, is that of using Indian corn in the sections of the state where this crop is sure, and Kafir corn in other sections. As pointed out many times, the two great values to be derived from the feeding of ensilage lie in the furnishing of the live stock a succulent feed which takes the place of June grass in the winter season or during the dry days of August. The other one is in saving the whole crop of corn instead of wasting 40 per cent of it as is now done under ordinary methods of corn farming. At the most, there is only about 60 per cent of the feed value of corn to be found in the ear. The other 40 per cent is generally wasted under present farming methods, but always saved through the use of the silo. In this way the silo actually saves nearly 50 per cent of the crop.



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# DAIRY



One of the best possible disinfectants known to modern chemistry is sunshine. With plenty of this in the stable there need be little trouble with sour or foul odors, and disease breeding conditions.

When you get a good bull, hold on to him as long as he is useful. If he is not good do not let sentiment stand in the way of his being disposed of. A poor bull is about the worst piece of property that a dairyman can own, and he runs a good many risks in buying a new and untried one. If the old bull has made good, keep him as long as he is useful.

Why don't some enterprising community of farmers start something along the line of community breeding. This practice simply consists in a number of farmers uniting in the purchase of a herd header of whatever breed may be selected and arranging for his use by each member of the company. This arrangement has many advantages. No one farmer has a large amount of money invested nor is he compelled to feed and care for an animal all the year that is of use for only a limited period. A small amount invested by each member of the company would make it possible to secure a first class animal for the use of all. This is now a common practice in dairy communities of other states and they have become market centers for high class animals of their respective breeds. It is a common practice with stallions right here in Kansas so why not with bulls?

Most people think that milk cows do better in summer than they do in winter. Perhaps this is true with most cows under average conditions, but it need not be so. In the summer time cows have the advantage of green grass, but they also have the decided disadvantages of the heat and the insect pests. In the winter they are free from these pests and with the use of ensilage the summer grass will never be missed, their milk flow will keep up in quantity and quality, they will be more easily handled and their products bring better returns. If the cow should go dry at all, it ought to be in the summer season when she can devote her entire energies to fighting the flies and hunting the shade.

Great business interests have made their successes through the utilization of small things. The packing house industry is great, not because of the vast amount of meat that is sold, but because nothing is allowed to go to waste. The oil industry is successful, not on account of the amount of kerosene sold, but because of the thousand things that have been made from the by-products of crude oil. The same principle applies in the dairy business. While milk and breeding stock may be the principal sources of income, the feeding of pigs and the preservation of the manure will add enormously to the profit. Keeping records of the cows is often the first real step toward success in the dairy business.

Near Fort Atkinson, Wisconsin, where community breeding is practiced, the farmers on one side of the city all breed Guernseys and on the other side, Holsteins. Buyers go to that city in large numbers to carry away the surplus stock at good prices. They go there from 5 or 6 other states because they know that they will be able to find what they want in either breed and in carload lots. The little county of which Fort Atkinson is the capital ships out some \$600,000 worth of high class dairy cattle and \$2,000,000 worth of dairy products each year. Land is worth \$150 per acre and only good stock will pay. These cows sell from \$75 to \$100 each and cost no more to keep than would a scrub that would not bring half that. Besides, they make money for their owners while the scrub only boards.

The farmers of southeastern Kansas have devoted so many years to the development of gas, oil, cement and other industries, that they have neglected their full opportunities in an agricultural way. There is perhaps no country within the corn belt that offers better opportunities for the dairy farmer than in this same neck of woods. Climate, crop and soil conditions all favor him. He is surrounded by market towns that clamor for his product, and the only thing that seems to stand in his way is his fear of competition. It is not likely that competition will ever reduce the price of dairy products materially, but even if it should the man who produces a good quality of dairy products and high class dairy stock never has any competition to contend with.

Said a visitor in Topeka the other day: "I saw a farmer come into the store in my town and sell a lot of butter for which he received 18 cents a pound. He visited a while, made a few purchases and, just before leaving, bought 3 cartons of creamery butter to take home for which he paid 35 cents a pound. How could he afford to do it? I know that he may have preferred the creamery butter for his own table but where did he gain in the transaction?" He didn't. He had no business making butter on the farm. He confessed himself a failure by this transaction. He could well afford to sell his cream and buy the small amount of butter needed for family use as this would have lightened the labors of his wife. I believe in the conservation of wives.

### The Muddy Pond.

What can I put in muddy pond water to make the mud settle? How do they purify the river water for Kansas City use? I want to use the water for stock. No rain here since September 26, and only one light, dry snow.—W. H. Wirrick, R. 5, Yates Center, Kan.

It is doubtful if anything that could be used to precipitate the sediment in this pond would be of any real value or serve to render it fit for drinking purposes. Water that has stood so long without having any fresh accessions or having been aerated is likely to be filled with dangerous germs, so that the mere deposit of the sediment would not purify it, although it might look clear.

I can not speak for the method used in Kansas City for the city water supply, so well as I can for those used in Topeka. I understand, however, that Kansas City has several pumping stations, each of which is supplied with a settling basin where the sediment is allowed to deposit in itself and the clear water flow over into a second basin and thence to a third from which it is conducted to the supply pipes. These settling basins do not serve to purify the water entirely and hence, the effort is made to secure pure water from the wells. In the Topeka water system the wells are sunk well below the river sand so that the water comes out filtered and pure before it goes through the pump into the pipes. A chemical test has shown that Topeka city water is practically pure and much better than furnished to other cities.

The health authorities of Ontario and other cities purify their drinking water by the use of chloride of lime. This is one of the most powerful disinfectants and germicides that is known, but it must be handled with great caution. They mix it so that there will be about four parts of chloride of lime to one million parts of water, and with this strength it claim to be able to destroy in a few minutes all typhoid and cholera bacilla and dysentery producing germs, while the water remains without odor or taste of the chemicals. You use chloride of lime do not use it until you get expert advice from the Experiment Station or from your family doctor.



## OUR FRIEND THE QUAIL

I am more than pleased to see the stand the good old KANSAS FARMER is taking against the slaughter of our game birds. I have been considered by some as a crank about shooting quail. At first I let any one who wanted to hunt on my land and only asked that they be careful about shooting towards live stock of any kind and to not shoot the quails. I found, however, that as soon as my back was turned and I was far enough away that these same parties could not resist the temptation to take a few shots with their pump guns when a covey was flushed. The result was that my quails began to disappear very fast. Now I have put a stop to hunting at all and would like to see a law so severe that it would put a stop to quail killing for ten years. Let us, every mother's son of us, do all we can to help such a law along.

Quail are the best friends the farmer has in the way of wild birds, as they live almost entirely on insects and weed seeds. They are vigorous, great rustlers and great eaters and in this they help the farmer fight his greatest enemies. This is true to an extent that one who has not investigated would hardly believe.

I think our game laws all need strengthening in many ways and our game warden, if there is one in Nemaha county, should be paid something worth while for attending to his

duties and he should be one who has the interest of our wild birds at heart. My motto is: more quail and fewer bugs and weeds in the farmer's fields. —Otis Warrenburg, Seneca, Kan.

Mr. Warrenburg is right and what he says will strike a responsive chord in the hearts of all farmers who have the community good at heart as well as their own.

It is doubtful if the enactment of more laws would be of any particular benefit. What we need is the enforcement of laws not the making of new ones. I doubt if there is a single section in the present game law that is not violated almost daily. Under the present law there is absolutely no foot of ground in Kansas where a hunter can legally shoot game unless he owns the land or has a written permission from the owner. He cannot shoot on the public highway; he cannot sell or ship game; he must have a license and carry it with him when hunting; he must not kill or have in possession any game in the closed season and he must not hunt on Sunday.

Surely the law is drastic enough and yet very little attention is paid to it in some localities.

We do not need more laws so much as we need the enforcement of those we have and it is up to the individual citizen to see that we get this enforcement.

## THE OUTLOOK FOR 1911

The year just closed will be memorable for the enormous value of its agricultural products. Never before in the world's history has the United States produced farm products to the value of \$8,926,000,000 in one year, which is the value of the agricultural products of this country for 1910, as reported by the Secretary of Agriculture. This aggregate is nearly double the value of the crops of 1899—an increase in eleven years of nearly \$4,500,000,000—and this prosperity of the farmers is practically nation wide as almost every crop and every district, except some portions of the northwest, have participated in bounteous harvests. Indeed, this prosperity of the farmers is nearly world wide, and, as a result, in part at least, trade expansion in 1910 was larger than in any other year.

But the record of business for 1910 is not closed, and we are concerned more particularly with the new year. We refer in passing to the crop results in 1910 only because of the fact that this prosperity of the farming community furnishes a most substantial reason for the expectation that the new year may be a very prosperous one for the people of the United States.

Much has been said of late concerning the necessity for better cultivation of the soil and of increasing the yield per acre, if we would keep pace in our production with the increase in our population, and thus preserve our position as a food exporting nation. The agitation in this direction is resulting in the use of more and better implements and machines for the cultivation of the soil, and less wastefulness in harvesting the crops. Many of the state agricultural colleges are sending their professors out

among the farmers giving lectures and demonstrations, directing attention to the importance of selecting good seed, the best methods of tillage and the proper steps to take to maintain and increase the fertility of the soil, and this work is supplemented with educational booklets and special articles prepared and sent out by the leading manufacturers.

The effect of this is seen in a more general use of the most modern tillage implements—traction engines for deeper plowing to get beneath the earth that has been compacted by years of plowing a uniform depth, and thus increase the depth of the loose soil and its capacity for holding moisture; corn binders and huskers and shredders for saving the corn crop; gasoline engines for pumping and other uses on the farm, etc. The farmer is realizing in a larger way the value of these machines, and the bumper crops give him the means with which to procure them. The profitable crops also emphasize the necessity for the use of the best farming implements and machines in order that the largest returns possible may be realized from each acre.

We have also heard considerable of late about the "back to the farm" movement from the big cities. Many who have found the struggle too strenuous in the over-crowded centers of population, and desire the freedom and independence of the farmer, are returning to the simple life. All these things make for a larger and better demand for the commodities of trade, and give a substantial foundation for the belief that the demand for farm products in 1911 should be considerably more active than in any previous year.—M. R. D. Owings, Chicago, Ill.

## REMARKABLE RESULTS

### From Small Poultry Advertising In KANSAS FARMER

Mrs. Martha Haynes, Grantville, Kansas, Proprietor Haynes' Poultry Farms, writes KANSAS FARMER under date of January 21, 1911, and says:

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**SINGLE COMB BUFF ORPINGTONS**—40 fine cockerels, \$1 to \$5 each; eggs in season. Mrs. S. T. White, Rose, Kan.

**CRYSTAL WHITE ORPINGTON EGGS** \$3 per 15; two grand pens. Ida K. Bradley, Holton, Kan.

**KELLERSTRASS ORPINGTON COCKERELS** for sale at \$3.50 each. Eggs in season. Address C. E. Dallas, Mound City, Kan.

**S. C. BUFF ORPINGTON COCKS AND COCKERELS**; fine fellows; \$2 to \$4 each; April hatched from Cook & Son's \$10 and \$20 eggs. Eggs in season. Mrs. J. B. Swartz, Box 73, Byron, Neb.

**BUFF ORPINGTONS—25 GRAND COCKERELS** and mated breeding pens from trap-nested prize winning heavy layers. All described in my poultry book sent for 10c. W. H. Maxwell, R. 95, Topeka, Kan.

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**BARRED ROCKS, PURE BRED, CHOICE** birds. Chris Bearman, Ottawa, Kan.

**CHOICE BARRED ROCK COCKERELS** \$1.50 each. S. E. Wilson, Grantville, Kan.

**WHITE ROCK EGGS \$2 FOR 15; COCKERELS** \$1 to \$5. W. F. Blackwell, Quinter, Kan.

**BUFF ROCK HENS, \$1. TO \$2; EGGS**, 15, \$1; 100, \$4. W. A. Hilsand, Culver, Kan.

**CHOICE BARRED ROCK COCKERELS** \$1.50 and \$2. Premiums at county fair. Mrs. E. L. Rice, Eureka, Kan.

**WHITE ROCKS, FARM BRED. COCKERELS** \$1.50 up. Eggs \$1 per 15; \$6 per 100. R. E. Mesnard, Humboldt, Kan.

**FOR SALE—PLYMOUTH ROCKS, BUFF** and White Orpingtons, Buff Cochins bantams, Biford & Sons, Eldorado, Kan.

**J. A. AYERS, LA PLATA, MO., ORIGINATOR** of the Ostrich Plume strain of Barred Plymouth Rocks 24 years a breeder of these famous American birds.

**LIGHT BRAHMA PULLETS AND COCKERELS** \$2 to \$5 each. Dwarf Spitz puppies \$5 and \$8; pair not related, \$10. Mrs. A. P. Woolverton, R. 2, Topeka, Kan.

**BARRED ROCK COCKERELS FOR SALE** cheap. George Franklin, Axtell, Neb.

**PURE BLOODED LIGHT BRAHMA** cockerels for sale. Milton Stephens, Sidney, Iowa.

**BARRED ROCKS AND BUFF LEGHORN**; 100 birds for sale; score 88 to 92; 30 premiums. L. D. Peak, Logan, Kan.

**WAGNER'S BARRED ROCKS, FARM** raised; old and young; single, pairs, trios, pens, or in large numbers. Write for particulars. Mrs. E. C. Wagner, Holton, Kan.

**BARRED ROCK COCKERELS, HENS** and pullets; all from prize winners; vigorous, farm raised stock; cockerels, \$1.50, hens, \$1; eggs, \$1 per 15; \$5 per 100. Mrs. H. Buchanan, Abilene, Kan.

**BUFF PLYMOUTH ROCK COCKERELS**. Good breeding cockerels \$3 each, 2 for \$5, while they last. They are good value. C. R. Baker, Box F, Abilene, Kan.

**BARRED ROCKS—BRED FOR BEAUTY** and profit; 38 pens; Topeka, Manhattan, Clay Center; males, \$2 to \$5; eggs, 15, \$3; 30, \$5; 15, \$1.25; 60, \$4; 100, \$6; chicks, 20c, 40c. Mrs. D. M. Gillespie, Clay Center, Kan.

**BARRED ROCK COCKERELS—WILL** sell 150 B. P. R. cockerels; bred from finest exhibition matings. I produced these after my 2 years in charge of E. B. Thompson's Ringlets; they are fine; priced low for quick sale; also some fine White Holland turkeys. A. E. Blaker, R. 22, Parsons, Kan.

#### WYANDOTTES.

**WHITE WYANDOTTE STOCK REDUCING** sale. Model Poultry Yards, Hanover, Kan.

**REDS (SINGLE), PARTRIDGE COCHINS**, Columbian Wyandottes. Catalog. W. J. Casey, Knoxville, Iowa.

**COLUMBIAN WYANDOTTES; EGGS** from prize winners; reasonable. Write me. G. A. Temple, Lexington, Neb.

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**TENNEHOLM FARM BLACK LANGSHANS** for sale. The best lot of cockerels I ever raised. Prices reasonable. Write at once. Mrs. E. S. Myers, Chanute, Kan.

**KLUMMIRE'S IDEAL BLACK LANGSHANS**; winners at Topeka, Horton and Leavenworth shows; eggs from winning stock. Write for prices. George Klumfire, Holton, Kan.

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**PURE BRED BROWN LEGHORN ROSE** Comb cockerels; satisfaction guaranteed; \$1 each. E. R. Grant, Kingman, Kan.

**R. C. BROWN AND R. C. WHITE LEGHORN** cockerels and M. B. turkeys; all fine stock; satisfaction guaranteed. Address W. M. Eagle, Melvern, Osage county, Kan.

**BLACK LANGSHAN COCKERELS, OAT-**alog free. Booking egg orders. Haynes Poultry Farms, Grantville, Kan.

**FOR SALE—S. C. W. LEGHORN COCKERELS** at \$1.50 to \$3 each; Indian Runner ducks, \$3; drakes, \$1.50 to \$5; all from prize-winning birds. Eleonora Fruit and Poultry Farm, Centralia, Kan.

**MUCH SHOWN—NEVER DEFEATED.** S. C. White Leghorns, White H. turkeys, Indian Runner ducks. Males and eggs for sale. **MARY CULVER, R. 1, King City, Mo.**

**STINE'S BUFF LEGHORNS WON 1ST** chl., 1st pen at Topeka, Jan. 2 to 7, 1911; unexcelled as layers; stock eggs. Write for mating list. Mrs. H. A. Stine, R. 2, Holton, Kan.

**MY STANDARD BRED S. C. BUFF LEGHORNS** won at Newton 1st cock, 1st and 2d cockerel, 1st, 2d and 3d hen, 1st, 2d, 3d and 4th pullet, 1st pen. Stock for sale—cockerels \$1 and up. Eggs \$2.50 for 15; \$5 for 100. S. Perkins, 801 E. First street, Newton, Kan.

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**RHODE ISLAND RED COCKERELS;** beautiful; both combs; \$1 to \$2. Mrs. W. E. Murphy, R. 1, Luray, Kan.

**FOR SALE—SPLENDID FARM RAISED** R. C. R. 1 Red cockerels; \$1 to \$3. Eggs in season. Mrs. J. Wedd, Oakhill, Kan.

**ROSE COMB RHODE ISLAND REDS.** Utility eggs; 15, \$1; 100, \$5; eggs from high scoring pens, \$1.50, \$2, \$3 per 15. Mrs. B. F. Weigle, Winfield, Kan.

**20 GOOD ROSE AND SINGLE COMB** Red chks. for sale; Tompkins strain; large, vigorous birds for farm flock; order eggs early from prize winning pen. Dr. W. C. Bradshaw, Ogden, Iowa.

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**PRIZE WINNING MOTTLED ANCONAS.** Eggs; \$1.50 and \$2 per 15 or \$6 per 100. W. H. Hardman, Frankfort, Kan.

**TRY ANCONAS FOR WINTER EGGS.** I have the best that 11 years of experience breeding them has enabled me to produce. Circular. Mrs. A. R. Gosler, Matfield Green, Kan.

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**MAMMOTH BRONZE TURKEYS FOR** sale. H. A. Sandborn, Detroit, Kan.

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#### SCOTT'S TURKEYS

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**EGGS AND STOCK FOR SALE OF 8 VA-**rieties of Leghorns; 3 varieties of Minorcas; also Blue Andalusians, Mottled Anconas, English Red Caps, R. C. Black Bantams, White Cochins Bantams. Mr. and Mrs. Otis H. Crow, Hutchinson, Kan.



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The Kind of  
Incubator  
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Farmer's Bulletin No. 236 on Incubation and Incubators, issued by the U. S. Dept. of Agriculture describes a perfect incubator. In so doing it describes the SURE HATCH as faithfully as though the writer had a SURE HATCH INCUBATOR standing before him as he wrote. Read what he says:

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"No machine is complete without nursery and chick tray."  
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cannot fail to hatch all fertile eggs. Insure against disappointment by getting a SURE HATCH, the incubator that has earned its reputation of hatching more healthy chicks than any other incubator made. TRY A SURE HATCH 60 DAYS FREE. We guarantee satisfaction and pay the freight. Send today for our Free Sure Hatch Book containing valuable information.

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# POULTRY



The price of fresh eggs keeps dropping steadily, which is a sure sign that the laying hen is getting in her work.

At this writing the weather is as mild as a summer day, and thoughts of "garden sass" and spring chicken will arise.

But it is yet too early to make garden and the hatching had better be delayed, for we are bound to have some severe weather, before the spring fairly settles.

The cackling of the hens reminds one that the hatching season is not far distant, and happy is the one that attends to this business early in the season.

Whatever one may say or think of the advantages of warm weather in late hatching, the fact remains, that it is the early hatched bird that is the most vigorous and more surely attains maturity. And it is natural that it should be so. The proper mating season of fowls is the early spring. The parent stock are more active and vigorous than at any other time and impart to the early offspring a great proportion of their own vigor and activity. Their vigor constantly dwindles as the season advances. The earlier the chick is hatched the better for all concerned.

Several persons who are starting in the poultry business this season have asked us which is better, to raise broilers or produce eggs. We answer that to raise broilers it takes considerable capital to get a proper start. You must provide the right kind of buildings, have many incubators and brooders and have the proper market for broilers. Whereas in keeping hens for laying purposes, all you have to do is to provide comfortable quarters for them to lay in and the right feed and you have the product coming in at once. And you are always sure of a good market for eggs, no matter where you live. So you see the egg-producing proposition is much the simpler and surer.

The man who sells eggs for hatching purposes is under obligation to the purchaser to pack such eggs in a manner that will reach him in good, hatchable condition. Packing such eggs as he would common market eggs is insufficient. There are ways innumerable of packing eggs for hatching; every breeder seems to have his own particular ideas in the matter. As long as these ideas do not conflict with the main proposition of having the eggs reach the purchaser in a hatchable condition, there is no harm done. But if they do, then a new way of packing eggs should be inaugurated. We have packed eggs for hatching for over twenty years, and have had extra good success with a very simple and cheap method. We have never had any use for patent egg boxes, for although they may be a little handier to fill and ship, still they do not carry the eggs in as safe a way as the one we advise. For one sitting of fifteen eggs, we take a common peck market basket and line the bottom of it with excelsior. We then take a handful of excelsior and wrap it around the egg, making a tight wad out of it. We do this with all fifteen of the eggs, then pack the wads tightly in the basket. We lay excelsior on top of the basket, and pack some of it on the side and ends, so that the eggs may not shake around. Then we sew muslin tightly over the top of all, and label and address them. They invariably reach their destination in good condition. In cold weather we sometimes wrap a piece of tissue paper around the egg before wrapping with excelsior. This is done to guard against chilliness en route, but after the season has fairly opened we discard the paper. Although scientists tell us that ill-shaped and mal-formed eggs will hatch as well as perfectly formed ones, still we always aim to send any

well-shaped eggs and aim to get them as uniform in color as possible, though the latter is almost impossible to do at times.

Experiments in feeding and in computing the value of eggs, show that if no estimate is made for labor, one dozen eggs can be produced at about six cents per dozen for food, or about half a cent per egg. This is where everything is provided for them. Where hens get a large portion of their living by picking up the waste food that is on every farm, the cost per dozen eggs is considerably less. If all of the food allowed to hens was converted into eggs, the profit on a dozen eggs would be large, even when prices are low, but much depends on whether the hens convert the food into eggs, flesh or in support of their bodies. It is a fact demonstrated, however, that when a dozen eggs are marketed, they carry from the farm but little of the nutritious elements of the soil, in proportion to their value in market, and on that account they are more profitable than anything that can be produced on the farm.

The right proportion of food for laying hens can be scientifically ascertained, but the relative question of the cost of different foods must also enter into the question. According to some authorities, fowls should receive about 60 per cent of flesh and 25 per cent of vegetables. This proportion is not absolute, but relative. It serves more as a guide to the poultryman than as an infallible rule. Now the question of grain must be decided according to the locality and cost of the various grains. Where beans or peas can be obtained cheaper than grains, they can take the place of the latter very acceptably, if ground and fed in an attractive form. Mixed with ground beans or peas, a little corn, barley and wheat bran produce desirable results. Corn we know has the greatest amount of fat producing material in it, and oats more muscle forming material. Beans, however, exceed any of the grains in muscle forming material, containing 38 per cent, compared to 22 per cent in oats.

### Poultry Study at Home.

Why not? The best poultry laboratory is one's own poultry yard. Everybody who raises poultry studies the subject, of course. Poultry journals were never better than now and there are many good books. But with all these one lacks what the classroom gives—a chance to ask questions. People do ask questions of their poultry papers and others, but they are rather haphazard. Out of the Kansas Agricultural College a great big correspondence school is being developed. The college is the largest Agricultural College in the world with about 2200 students in winter, but the authorities want to reach ten thousand others who cannot attend the college classes. Among the eighteen agricultural and home subjects an elementary course is being offered in Poultry Husbandry with a very nominal fee—less the actual cost—of \$2 for residents of Kansas and \$5 for non-residents. After next July the fee will be \$5 for residents of Kansas. This is a part of the Extension Department.

### Poultry Keeping as a Pastime.

The American people are not noted for their love of industry, but are also noted for their love of pleasure and of beauty. At the present time there are many ways offered those who would seek recreation and rest from regular work or confinement to business. Perhaps there never has been a time in the history of the nation when there were so many different modes of pleasure offered to those who are seeking such things, and yet poultry keeping holds its own. It is in the front rank of all these aspirants for public life. The greatest of all outdoor pastimes is that of raising poultry. It costs

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Are the best that skill and brains can produce. Made for 2, 3, 4, 5 and 6 horses. HEIDER 3-horse Wagon Evener for wagon, manure spreader, grain drill or any other implement with pole. HEIDER 4-horse Plow Evener works 4

horses abreast on gang, sulky or disc plow, 1 horse in furrow, 3 on land.

No side draft; all horses pull equal. We make Clevises to attach our Eveners to all plows. ASK

YOUR DEALER for HEIDER EVENERS; if he can't supply you, write at once; we will tell you

where and how to get them. Let us prove to you the many points of merit, why you should accept no other

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the nearest and dearest to the homes of the countless millions of families that are scattered over the earth. Like children and sunshine, poultry is a necessity to the human race in every state and in every clime. It brings pleasure to numerous families and nurture to many.

We are not referring to the raising of fowls in large numbers as a business, at this time, for when the work is prosecuted as a money making business, it has its cares, trials and vexations, like all other industries and enterprises. We are referring to those who keep poultry in small numbers, mainly for pleasure, and to gain what profit will naturally follow such a course. There are many pastimes which are very attractive, and very expensive, too, returning nothing, but continually drawing on the pocket-book. There are pleasures which are not healthful, to either body or soul of man, which should receive some redress, and raising poultry will tend to do it. There are also pleasures in this world that many men find that constantly draw them away from their home, which is indeed objectionable. While perhaps if only a few thoroughbred fowls, that were just befitting to his fancy, were kept, he might be induced to stay at home, and thereby make golden the light that shines upon the hearthstone where he with his loved ones dwell. Poultry keeping is harmless and full of pleasure. It is fascinating and requires study and the love of nature. It is honorable, pleasing and elevating. There is contained in the nature of man a love for birds and animals; it was put there for a purpose and is easily developed. All can find this pleasure by breeding some thoroughbred fowls. It is often noticed that men enter the work or pleasure of raising poultry with but little zeal at the start, but how it does grow! The old saying, "Once a fancier, always a fancier," is as true as steel. We never knew a man who was a true fancier of fowls to ever lose his love for the feathered tribe or his admiration for fine fowls. There is something too attractive about them to be ignored or easily forgotten. Many a man confined closely to the store or office work is cheered when he comes home at evening with the sight of his pets in the poultry yard. It is very interesting indeed to mate and study the result of mating of fine birds. Then there is that full egg basket, and fried chicken, which pays for all the expense of keeping them, with all the pleasure thrown in free, with a better appetite and more robust health.

#### With Milk and Honey.

"Occasionally a good man becomes dissatisfied with Kansas," says the Seneca Tribune. "The milk is too yellow or the honey too sweet, and he doesn't like to have them flow over his land anyway. So he parts with his land and sells his livestock and other things too numerous to mention and moves to Oklahoma. There he makes good Kansas money and buys a farm which today is and tomorrow is not, because the wind has blown it away. Or tries Colorado and slushes in mud trying to irrigate a strip of bottom so narrow a cow could jump across it. Then he hears of Texas and goes down to hunt the bag at the end of the rainbow. In the daytime he scratches the sandburs out of his feet and at night centipedes crawl over his face. When his money is all gone he begins to feel like he did the first night he stayed away from home. He yearns for good old Kansas and the yearn sticks in his throat and chokes him till the tears come into his eyes. He would give months of hard work to see the cows standing at the bars of his old Kansas farm and hear the horn for supper. Memory is a marvelous painter and paints the things we love the best. It pictures to the traveler the corn silks in the fields he used to own, the bright yellow for harvest, the clover stretching away in a carpet of red and green, richer than the rugs of Persia. It showed to him the elms as they whispered to his children at play under them, points to the roses at the corner of the rail fence and in detail paints a thousand things at touch the heart and prove its almighty power. Happy is the man who wakes to find that he has wandered from Kansas only in a dream."

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**10,000 KERNELS OF FERTILE SEEDS for 16c**

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| 1800 Lettuce                          | 1000 Celery   |
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Signed Sam Thompson Pres.

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# HORTICULTURE



### A Blue Grass Lawn.

How much blue grass and white clover would you sow for lawn purposes and what is the best time to sow? Most of my lawn is freshly graded with heavy, black river soil on top. It has a good deal of shade from trees and a small part already has a fair stand of blue grass. Would you harrow to cover the seed?—G. M. Miller, Chase County, Kan.

It is a fact not generally known that the germinating power of even good blue grass seed is quite low. If 50 per cent of the seed sown will germinate it would be considered very good seed. For lawn purposes it is desirable to sow a larger quantity of seed than for pasture, as quicker results are desired and a heavier stand needed. For this reason it is desirable to sow from 30 to 50 pounds per acre, though in my own practice I sometimes use more and sow it at different seasons until the desired stand is obtained. It is better to sow in the fall though many sow in the spring because it is more convenient to do so. If sown in the spring it should be done very early.

The ground should be made very fine as the seeds are very small and coarse or cloddy soil does not come in sufficiently close contact with the seeds to insure germination. A good top dressing of well rotted manure could be spread at once and disked in before the spring seeding. The soil should then be fined down with a harrow or drag, the seed sown and brushed in. A light harrow will do though a board float or drag is often better as it does not cover the seed so deep. When white clover is used as a part of the lawn mixture it should be sown at the rate of 1 part to 3 or 4 of blue grass seed.

Kentucky blue grass will grow on many kinds of soil and that mentioned by Mr. Miller ought to make a splendid seed bed if it has become well settled. It is difficult to make blue grass do well on land that is too heavily shaded as it must have sunshine at least a part of the day. If any part of the lawn is completely shaded throughout the day it will be better to trim up the trees a little so as to let a little sunshine in. Otherwise the land is likely to become sour and the grass fail. If the trees cannot be trimmed an occasional top dressing of rotted manure will stimulate growth in the shady places.

A good lawn is a thing of beauty and adds many dollars to the value of the farm besides making it a better place to live.

### How to Grow Black Walnuts.

BY CHAS. A. SCOTT.

Under favorable conditions the black walnut is a tree that is easily grown. The seedlings reach a height of from 12 to 24 inches the first season, and this height growth is exceeded from year to year during the sapling and pole stages of development. The nuts should be planted where the trees are to be permanently located for the reason that the seedlings develop a very strong tap root the first season and transplanting is impractical.

The nuts mature in October, and they should be gathered soon after they fall from the trees. They should not be hulled as the hull in no way interferes with germination and it protects the kernel from injury by drying. The only treatment necessary before planting is to see that the nuts do not dry out, as drying seriously injures their germinating powers.

Nuts for fall planting keep perfectly in small piles in cool, shaded places. The piles should not be made more than 12 or 15 inches in height on account of danger of the nuts heating if the pile is large.

For spring planting the nuts should be stratified over winter. They may be stratified in moist sand or leaves in any protected place. In stratifying, a two-inch layer of sand

or leaves should alternate with a layer of nuts of the same depth. The pile should be kept moist and allowed to freeze and remain frozen throughout the winter.

The nuts may be planted either in the fall or in the spring with equally good results. The fall planting should be done any time after the nuts are gathered up to the time the ground freezes. The spring planting should be done as soon as the ground is in a workable condition. The danger in delaying planting until later in the season is that the nuts begin to sprout soon after they thaw out, and once through the shell the sprout is easily broken off. It is also necessary to exercise due precaution to prevent the nuts from becoming dry after they have been stratified as the germ is then very delicate and easily injured.

The ground in which walnuts are to be planted should be thoroughly cultivated for two or three years before the nuts are planted as the trees will not make a satisfactory growth in virgin soil. The black walnut is a tree that requires the deepest, richest soil that can be found along creek and river valleys for its best development, yet at the same time it makes a very satisfactory growth on the prairie soil of the eastern part of the state. In the western part of the state the planters should select the low ground along ravines for planting sites when possible.

The nuts should be planted three feet apart in furrows ten feet apart and not more than four inches in depth. After the nuts are planted the furrows may be filled in with a cultivator. It is not necessary or even desirable to level the ground more than is required to securely cover the nuts. If the furrows are not leveled they will catch the excess surface water in times of heavy rainfall.

If the nuts cannot be planted in furrows the next best plan is to plant them in seed spots. Seed spots are places where several nuts are planted in an area sixteen or eighteen feet in diameter to ultimately form a small group of trees. The ground for such planting should be spaded and pulverized so as to increase the moisture holding capacity of the soil, and from six to ten seeds should be planted in each seed spot.

On account of the black walnut being a lover of moist, rich soils it is very sensitive to dry, parched conditions. It is therefore very necessary to give the seedling trees the best of cultivation until they develop a good root system and take possession of the ground. Thorough surface tillage that will maintain a dust mulch is the most desirable cultivation. When it is impossible to give the trees such cultivation, as in the case of seed spot planting, it is a good plan to mulch the ground with straw to keep down the grass and weeds. In all events keep the ground around the seedling trees free of weeds and grass sod.

After the walnut trees are five or six years old it is often advisable to underplant them with such trees as the box elder, green ash, or red cedar, so as to completely shade the ground. Shading the ground and keeping out the weeds and grass are factors vastly more important in tree culture than most people are willing to believe. The walnut has very light foliage and the grasses and weeds soon take the ground unless some other trees with heavier foliage are planted with them.

In artificial hatching and brooding, every deficiency in conditions surrounding the machines, as compared with conditions under which a hen will hatch with good results—every such deficiency must be properly discounted, i. e., provision must be made to overcome or supply the deficiencies as far as possible. It is another case of using good sense, and one's native wits.

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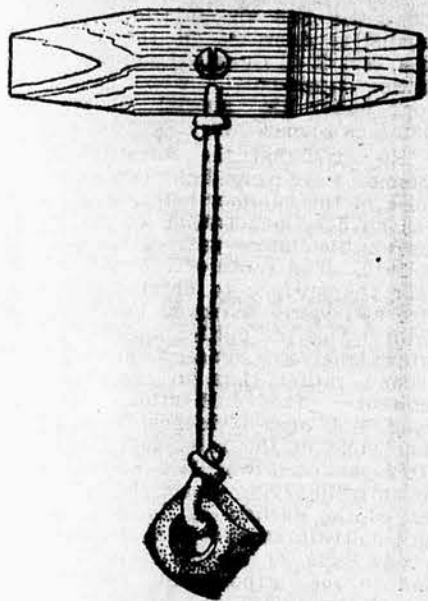
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### It Will Stay Hitched.

Possibly a majority of all the doors to farm buildings in this state are made to fasten with wooden buttons. Possibly all of these are more or less troublesome. Because of wear or the slamming of the door the buttons become split or otherwise damaged so that they do not do their work. They don't "stand hitched."

Now look at the cut and see how one man fixes these buttons so they



work right. Bore a small hole through the button and insert a No. 9 fence wire. Bend this over so as to hold firmly and to the other end attach an old nut or other heavy piece of metal and the work is done. If this wire is firmly fixed it will always hold the button in proper position and prevent its failure to hold the door. when the wind blows or animals rub against it.

### Personal Experience with the Silo.

"I knew nothing of silos or silage until I got to reading about them. I was so taken with the subject that I sought information everywhere. I called on the head of our State Agricultural College and received much light and he sent a man to me who was full of information on these matters. I said to him, 'Don't tell me about silos, all I ask to know is what kind I shall build, what kind I want.' I learned much more in the half day he was with me. I was sure an enthusiast. Kansas Agricultural College sent me a man and under his direction I built a silo.

"I rented a silage cutter of my neighbor and a threshing engine and filled the silo at a cost of 53 cents a ton. My corn on 30 acres was a poor stand and was small; the corn yield was estimated at 25 bushels per acre. When I began to feed it it reminded me of the Knox family's first experience when the came over from Ireland—we did the work all right but we regarded the loud-smelling mass as spoiled and dumped it out. But my cattle ate it, everything eats it and calls for more.

"I am feeding 20 coming two year old and 40 coming three year old steers and they are doing fine, their hair is glossy and they are unmistakably thrifty.

"I have no knowledge yet of the milk properties, my cows feed with the steers. I am feeding about 12 pounds a day. I like it better every time I feed it. Three cattle clean it up, eat it all and call for more. I have not fed it to my horses yet. My wife says she has heard nothing but silo and ensilage all last summer and is expecting to feed the new stock food to me!"—James Knox, Eldorado, Kan.

### Dry Farming in Cuba.

Your article on dry farming as crop insurance in your issue of Dec. 4, 1910, is one of very great value to very farmer in the United States. The author of the article fully explains the scientific principles of dry farming and its great value to the agricultural industries of the country. Some of your readers will doubtless remember me as I owned a 640 acre ranch in Sedgwick county, 16 miles west of Wichita, also 1,500 acres near Medicine Lodge, Kan. I sold those ranches six years ago and invested my money in citrus fruit and sugar on the island of Cuba. Before leaving Kansas I became somewhat

familiar with Campbell's system of dry farming and I became fully convinced as to its value for retaining the moisture in the soil to be used as needed.

Two days ago I visited a citrus fruit grove which had been cared for under that management. On my way I passed load after load of grape fruit which had been picked off the trees and thrown away because the trees were bearing too heavily. When I got to the grove where this fruit was raised I found about as abundant fruit as you will find in the average grove although the groves are 4 to 6 years old. The cultivation of these groves had been done almost entirely with the Detroit Tongueless Disk Harrow which is an excellent tool for pulverizing the soil. These groves, which are 4 and 6 years old, have been bearing since they were two years old.

The cultivation is perfectly clean, no weeds, vines or vegetation of any kind to sap the soil. These two groves are the finest in this region and will eventually become the most profitable.

There are other groves near there that have been neglected and allowed to grow up to weeds and grass and the trees have little or no fruit on them.

It is only one month since I received deeds to my property and am now in position to carry out this system of cultivation. It is our belief that the discovery of the dry farming method will be worth hundreds of millions of dollars to this country.

We shall watch for your publications with interest.—Eli P. Miller, M. D., Ceballos, Cuba.

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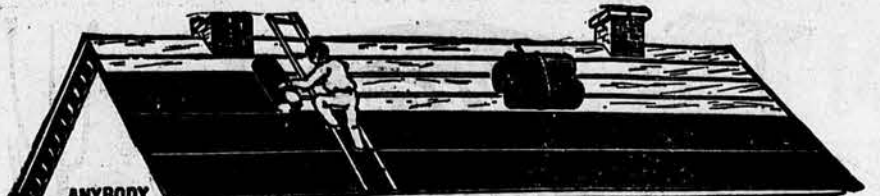
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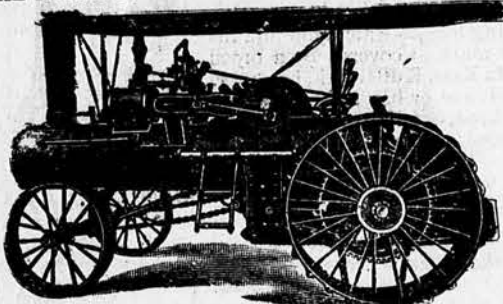
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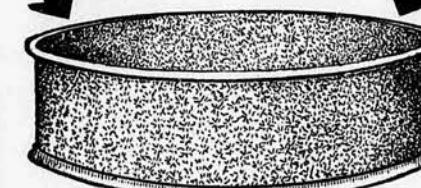
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## The Future of Corn In Western Kansas

By PROF. A. M. TENEYCK

"I take it that it is intended that I shall treat this subject, 'The Future of Corn in Western Kansas,' largely from the standpoint of the Fort Hays Branch Experiment Station as shown by the results of the experiments carried out at that Station.

"By these experiments we have learned three important facts about the successful growing of corn which are local, but which may also apply to a large part of western Kansas.

"The first and most important fact is that only those varieties which are adapted for growing in western soil and climate can be depended upon to produce good average crops. Our tests of varieties at Fort Hays prove that seed grown from eastern Kansas corn cannot compete as a rule with our western-grown seed of the best adapted varieties. Over 70 different varieties or strains of corn were planted in our trial of varieties last season and the 'native sorts' were the only ones which produced under the severe conditions which prevailed. Among some of the hardier and better producing varieties as shown by the test last year and the year previous are Pride of Saline, White Dent, Albright's White Dent, Minnesota No. 13 Yellow Dent, and Sherrod's White Dent. The first variety named is only well-adapted for growing on bottom land in Ellis County and farther west, but is a good upland corn in central Kansas and succeeds remarkably well at the State Experiment Station, at Manhattan, where it has proved to be one of the best producing varieties on the average out of the large number tested for three seasons, 1907 to 1909. The Hays Experiment Station is growing the Pride of Saline, and the Albright's White Dent and some other varieties in large area and will have some seed for sale of these varieties.

"The second important factor which has much to do with securing good yields in the dry seasons is deep listing. Such trials as have been made at the Hays Experiment Station prove that when the corn is planted in listed furrows 7 to 8 inches deep and covered with 2 or 3 inches of mellow soil at the bottom of the furrows, it resists drouth better and produces a larger yield than is produced by corn planted in shallow listed burrows, to 5 inches deep. The corn planted in the deep listed furrows starts slower in the spring and does not appear to be so badly injured by drouth which may occur later in the summer. This may be due in part to the slow start in the spring but is also doubtless due to the deeper root system resulting from the planting of the corn in the deep listed furrows and also to the conservation of the soil moisture, the deep furrows offering better means for the rains to be absorbed into the subsoil and the filling of the furrows by cultivation prevents the escape of such moisture as has been stored.

"A third important factor which has much to do with producing good ears and a large yield of grain is thin planting. It is a common practice in western Kansas to plant corn too thickly. In the more favorable seasons and under the more favorable conditions, the thicker planting, such as is practiced in the central and the eastern part of the State may give good results, but with the average season the thin planting will prove most successful throughout the western third of the State.

"Corn should be planted thinner on upland than on bottom-land. While the results of our experiments vary somewhat, we have concluded to plant corn on the upland one kernel to the hill, 30 to 36 inches apart in listed furrows, 3 and 1-2 feet apart when the main purpose is the production of grain or ears. On bottom-land our plan is to plant single-kernel hills about two feet apart in rows 3 and 1-2 feet apart. Thicker planting may be practiced for the producing of fodder.

"In order to make a crop, corn requires good cultivation in western Kansas the same as it does in the 'corn belt.' The best, or exact method of cultivation, however, whether deep or shallow, early or late, has not been determined. In fact, our experiments indicate that exactly opposite effects may be secured in different seasons

by the practice of different methods of cultivation.

"In 1909 the corn which was cultivated late in the season with a single horse cultivator gave a considerable increase in yield over that which was 'laid by.' In 1910, the late cultivation apparently had an injurious effect, causing a decrease in the yield of corn. Mr. C. C. Cunningham, our Hays Station agronomist, who has this work under his special charge explains this result in this way:

"He says that the rains late last summer were very light compared to those of the summer before and there was no deep penetration of the moisture in the latter part of the season of 1910. The roots of the corn came near the surface to obtain the moisture and were destroyed by the cultivator. Also the cultivating of the soil after light rains tends to dry out the ground rather than to conserve the moisture. This cultivation was not deep, not over 3 inches. It appears that none of the rain last summer after the corn was laid by was sufficiently heavy to cause the compacting of the surface of the soil, hence late cultivation, except to destroy the weeds, was of no particular benefit and in the experiment referred to actually resulted in injury to the crop. While the results of the late cultivation last season were adverse to cultivation, yet as stated above the yield in the season before was increased nearly a hundred per cent by the late cultivation and doubtless the farmer will usually secure a benefit from such extra cultivation as he can give his field of corn. Western farmers are not likely to cultivate their corn too much nor too late in the season.

"I have made no speculation on 'The Future of Corn in Western Kansas.'

"I believe it is yet too early to make any prophecy on this subject. I have no doubt, however, but that the growing of corn in western Kansas will increase in area and in importance, and in the value of the crop. We need to grow corn in western Kansas if for no other reason than to use it as a rotation crop with wheat. Cane, Kafir and milo, while they may be better adapted for growing in western Kansas than Indian corn, cannot take the place of Indian corn as a rotation crop. I wish, however, to encourage the growing of Kafir corn and milo maize as grain crops throughout our western counties since I believe that these crops are much safer and more profitable crops than corn.

"To resume: In order to grow corn more successfully in western Kansas, plant seed of the best 'native varieties,' plant in deep listed furrows and plant thin, and give sufficient cultivation to prevent the weeds from injuring the crop."

### Sheep Prospects.

The time may come when this country will be one of the greatest sheep producing countries on earth. Sheep do well here. We need them in our farm economy. They are money makers, not for the speculative feeder, perhaps, but for the farmer who raises them. They are not needed in large flocks as in the days of the old bonanza methods but in smaller flocks on every farm. One thousand sheep will bring big returns if carefully handled but 100 will bring greater proportionate returns and even a dozen will pay.

And now is the time to begin with sheep. Stock ewes will probably be cheap in the spring while the market prospects for mutton for the next few years were never brighter. For political reasons the wool market is not so promising, especially for fine wools, but those who breed mutton, long wool or medium wool sheep will have little to fear. Even if the wool clip is not considered there is the promise of good money to be made from a small flock of sheep on each farm.

A little old lard or grease that has been melted and had pulverized sulphur thoroughly stirred into it is a most effective protection of trees against damage by rabbits. It may be applied with an old paint brush and one application is sufficient.



# Johnson's Share Only 7%



I've got a most profitable chicken raising message for 1911 to send you—and my book, Johnson's own writings again. Hundreds of photographs—every page a poultry sermon on how simple and sure many thousands of satisfied customers of mine have proved Old Trusty. I'll write my price to you personally—less than \$10—freight prepaid (E. of Rockies) and show you how I'll make less than 7%—less than 70c on every Old Trusty on over 100,000 output this year.

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I used to have to make as high as 16% when I sold one-half as many. But I'd rather put down the price and sell more than twice as many on 7% making profit. And Old Trusty is better than ever this year—over 80% hatches guaranteed and my guarantee to last you ten years. Handsome metal encased over asbestos covering. Beginners find them simple, easy to run and sure. Expert poultry raisers praise Old Trustys for highest standard success.



30 or 60 or 90 Days' Trial—10 Year Guarantee. Under \$10 Now. JOHNSON Pays the Freight (East of the Rockies). Whatever else you do—don't miss this offer. Don't miss my 1911 Old Trusty Book with hundreds of photographs. Be sure to write me a postal before you buy anybody's machine this time. Address M. M. JOHNSON Clay Center Nebraska

## \$12.50 Buys both

An Incubator and Brooder bargain unparalleled—the biggest capacity and highest efficiency ever sold for the price. You get all the best features found on the high priced machines and in addition you get an incubator made from special heat and cold resisting material, with hundreds of dead air cells which prevent absolutely, temperature changes and insure perfect hatches every time. You are safe in buying my Progressive Incubator, for my "Buy Back Guarantee" offers to buy it back from you if not satisfactory and pay you 8 per cent interest besides.

### PROGRESSIVE INCUBATORS & BROODERS

FREE Buy right from this ad, or if you want more information send at once for the "Progressive Method," it's free. G. C. Wheeler, Mgr. PROGRESSIVE INCUBATOR CO., Box 150 Racine, Wis. 155 EGG 155 CHICK

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Your address on a postal brings latest edition of "Hatching Facts" it tells how to start right at least expense; how Belle City won World's Championship last season. Write today, but if in a hurry order direct from J. V. Rohan, Pres. Belle City Incubator Co.

## \$7.55 Buys Best 140-Egg Incubator

Double cases all over; best copper tank; nursery, self-regulating. Best 140-chick hot-water brooder, \$4.85. Both ordered together, \$12.50. Freight prepaid (E. of Rockies). No machines at any price are better. Satisfaction guaranteed. Write for book today. Send price now and save time. Belle City Incubator Company, Box 18 Racine, Wisconsin.

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The incubator is made of wood, covered with asbestos and galvanized iron; has triple walls, copper tank; nursery; egg tester, thermometer, ready to use. 30 Days' Trial—money back if not O. K. Write for Free Catalog today. Incubator Co., Dept. 73 Racine, Wis.

## G. C. BUFF ORPINGTONS

Single comb, high class, prize-winning birds. A few good cockerels for quick sale priced right. Eggs in season. Won 1st pen Topeka, 1911; show against 12 Kansas City in 1910. I certainly have the stock to please you and will quote you attractive prices if you write me at once. EVERETT HAYES, R. F. D. 4, Hiawatha, Kansas.

## Best Paying Varieties

Pure-Bred Ducks, Geese, Turkeys, EGGS, Dogs and Incubators. All at Low Prices. Information worth \$2.00 dollars to you. A. WEBER, 934, "Tankato, Minn.

# Why Not Pedigreed Poultry?

Live stock breeders recognize the value of a pedigree. It stands for something. It not only signifies purity of blood, but years of endeavor to perfect the ideal. Haphazard breeding may occasionally produce an individual that as an individual, surpasses his class, but his value as a breeder to perpetuate his quality is an unknown quantity. The family, the blood, the power to transmit is not there. The incidents where this is not the case are very rare. On the other hand, the animal that has qualities probably inferior to the individual, has a long line of producing ancestors whose productions are a known quality, will exceed in breeding value the individual without known ancestors. He is the representative of years of endeavor to attain the ideal, while not perfect through the strength of family blood lines, he has the power to improve as well as reproduce himself. His breeding qualities are the result of selection and elimination, line breeding made possible by pedigreeing. The value of the pedigree is conceded by the well informed person; for, without it, real improvement is not possible. Through it the well known producer is recognized and retained to intensify his qualities in the progeny.

Breeders of thoroughbred poultry in general fail to recognize the value of the pedigree. Strange as it may seem, nevertheless the fact remains that poultry breeders who pedigree their flocks will not exceed 2 per cent of the total breeders throughout the United States. Why this is so I can not say, as the ideal will never be obtained without this being done. In all domestic animal life, the breeder's desire is to obtain perfection of utility qualities. You can only obtain the desired result in poultry by trap-nesting, pedigreeing, and recording the performances of the individual. It has been proven beyond contradiction that by pedigreeing, and recording production that a superior egg-producing strain of fowls may be produced. The trap-nest weeds out the inferior layer, calls your attention to the

ones as well as the high producer. Your pedigree is your record of family performances. It makes the 200 egg hen a possibility. It gives fowls a value that otherwise they would not obtain. You know whether they are capable of intensifying their superior qualities in their progeny. It is true that in asking for poultry that is pedigreeed, you must depend upon the breeder's honesty as to his statement of ancestry and of performances of any one individual, but you will find that a poultry breeder who is enthusiastic enough to pedigree and record the egg-production of his fowls is doing this only through the real desire to create and obtain his conception of the ideal utility fowl. He is doing this not for others but for his own benefit, so that he may, by these records, mate his birds so that improvements will be the result. It can not be disputed that these birds so obtained are by far the superior of those that are bred by haphazard, hope-I-hit-it methods.

The pedigreeed bird has the benefit of a long line of high producing ancestors whose high qualities are still more intensified in him. It is not unreasonable for the buyer of males intended for breeding purposes to demand the bird's family history, but it would be unreasonable for him to expect to purchase those that have known breeding qualities and powers to transmit them, for the same price as a bird with unknown ancestors. The farmer is the man who produced in Kansas alone over \$10,000,000 worth of eggs and poultry in 1910, which is not by far the maximum. Pedigreed males are his needs. To illustrate, let us say that you had 100 laying hens producing 9,000 eggs per year valued at 20 cents per dozen = \$150. If by using males from a bred-to-lay strain of fowls you were enabled to increase your production in the second year's breeding 20 eggs per hen, it would amount to an increase of \$33.43 per year. Do you think it would pay? This can be done. Think it over.—Chas. E. Smith, Baynesville, Kan.

## The Farmer's Reading

Did you ever read that interesting story of an American farm by Streeter, entitled "The Fat of the Land?" At the age of fifty-three the author, compelled to give up his profession of practicing medicine, turned to farming. He gives an exceedingly entertaining and instructive account of how his factory farm paid well from the start.

Even if you have only three pigs and a brindle cow, you will desire to know what they will score, and to what breed their ancestors belonged. This and more, too, you will learn from "Judging Live Stock," by Craig, and "Types and Breeds of Farm Animals," by C. S. Plumb. Then you will desire to know how to feed and care for these animals so you cannot afford to be without the new edition of Henry's "Feeds and Feeding," and Smith's "Profitable Stock Feeding." Next you will desire your live stock to breed well and Shaw's "Animal Breeding" will assist you in making proper matings.

It is natural for you to like to feel safe in case Old Brindle has an attack of milk fever, or the pigs slip in to the orchard and eat too many green apples. If this happens the services of Mayo's "Diseases of Farm Animals" will be indispensable.

One of your greatest problems will be the producing of sufficient food-stuffs for your herds. This requires a knowledge of the preparation and cultivation of the soil. Burkett's "Soils," backed by "Soils," by King, will solve these problems for you in an efficient manner. If in doubt as to what to sow in the north forty consult Shaw's "Forage Crops," or "Cereals in America," by Hunt, on the matter. Alfalfa for hay and pasture is indispensable for live stock, and either Coburn's or Wing's book on "Alfalfa" will teach you all you care to know on this subject.

When grass comes and Old Brindle

gets industrious and gives more milk than you know what to do with, read "The Farm Dairy," by H. B. Guler. "Milk and Its Products," by Wing, and "The Dairy and Its Products," by Family Cow," and your dairy troubles will be over.

It will soon be time to sharpen the old pruning hook and "The Pruning Hook," by Bailey, will tell you just how to manipulate the said hook. "Principles of Fruit Growing," and "Principles of Vegetable Gardening" by Bailey, should be read by every farmer whether he makes a specialty of these lines or not.

"Farm Buildings," a book giving the plans, construction and location of the numerous farm buildings is of especial interest to all progressive farmers. Last but not least is "Highways of Progress," by James J. Hill, a book that should undoubtedly be read by every farmer as it shows him his true position in the world and the nobleness of his calling.

These are only a few of the books that should be contained in every farmer's library, not for ornamental purposes alone, but to be made his daily companions to aid in solving the problems that confront him in his daily life. H. L. SMITH.

These and any others can be supplied by Kansas Farmer Co.

Suppose you were to feed your cow an average daily ration of 40 pounds of ensilage. This would amount to a little over 7 tons per year. An acre of good corn will produce 15 tons of ensilage and no other crop will produce so much feed for domestic animals. Corn is already king, but the addition of the silo to the farm equipment places a new jewel in his diadem. Corn that will maintain two cows to the acre stands far ahead of any other crop in feed production possibilities.

# 60,000 "Queens" in the Contest

all along the line last year, and the Queen never fell behind. Friends, you will be interested in knowing about the uniform big hatches produced by the



It is the dependable hatcher under all conditions, in everybody's hands.

Let's get in touch with each other. Get my book to-day! I start people in poultry on the make-good basis. I'll set a Queen down at your station, freight prepaid, and give you the chance to test it any reasonable length of time. Test it 60, 90 or more days, till you are satisfied. 10 year straight guarantee now.

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## SMITH'S LAYING STRAIN OF Barred Plymouth Rocks

Line bred, trap-nested, purebred for egg production. Every chick is pedigreeed, every hen has a record kept of the number of eggs she lays; nothing but first class layers used in breeding pens. They will improve any flock of pure Plymouth Rocks. The farmer wants eggs, so don't fail to send for my mating list and see what I have.

CHAS. E. SMITH BOX F, BAYNEVILLE, KANSAS.

## FIRST NATURAL INCUBATOR.

The living hen controls all nature's way, assisted by Slem's patented low cost plans. Over half million used with very best results. High compliments of users. Walter Brown, Cadle, Ill., says: "We hatched 550 chicks 12 hens, 13 eggs each brought off 140 fine, healthy, strong chicks. No freight to pay. 200-egg size \$3. Agents wanted. Both sexes make excellent wages. Write today for free catalog and terms. USEFUL UTILITY CO., Gen'l Agts., P. O. Box 48, River, Cal.

## Ideal White Wyandottes

The great egg layers; large size and vigorous; the IDEAL farmers' fowl. They will improve your flock, increase your egg production. Eggs at the reasonable price of \$1 per setting, \$5 per 100. C. O. PARSONS, Ideal Stock Farm, Clearwater, Kansas.

## PFILE'S 65 VARIETIES

LAND and water fowls. Farm-raised stock, with eggs in season. Send 2c for my valuable illustrated descriptive Poultry Book for 1911. Write Henry Pfile, Box 621, Freeport, Ill.



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OR

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THE ONLY STANDARD work on the subject. Over 400,000 copies have been sold. Written by an expert who for 20 years was a practical worker in cement.

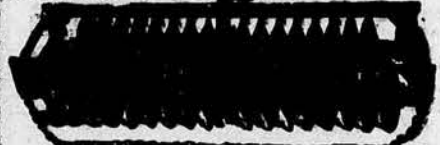
THE BOOK is worth its weight in gold to any progressive farmer. It gives plain, practical, explicit directions how to make anything from cement on the farm from a modern home to garden walks.

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THE BOOK CONTAINS 100 closely printed pages, stoutly bound in yellow cloth. All possible formulas for mixing cement are in it. Its directions are so plain that any one can understand them.

THE PRICE is 50 cents a copy postage prepaid. Or given as a premium with one year's subscription to KANSAS FARMER, either new or renewal at the regular price, \$1.00 per year. Order a copy today and you will say it is the best investment you ever made.

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PULVERIZER Leads Them All.



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ONE OR TWO HORSE AND GASOLINE BELT POWER.



Self-Feeder, Belt-Threader and Blotter. All Steel, full circle. Guaranteed 1 ton an hour with ONE OPERATOR. 1 1/2 tons an hour with two men. FREE trial. Write TUTTLE HAY PRESS CO., 621 S. Adams St., Kansas City, Kan.

### VESPER POULTRY SUPPLY CO.

Dealers in and breeders of 20 of the leading varieties of pure bred poultry. Eggs and baby chicks at all times. All kinds of poultry feed and medicine. Agents for the Cyphers and Philo system incubators. Send 2c stamp for catalog.

114 EAST TEN ST., TOPEKA, KANSAS.

### BOOMER'S BRED TO LAY BARRED ROCKS

Winners at the American Royal, Kansas City, and also won the prize on pullet eggs at the Mo. State Show at Kansas City against Hen eggs. My matings this season, both cockerels and pullets, are the best that I ever owned and are sure to produce winners. My hens have trap nest egg records of 300 and over. Send for mating list that tells all about them.

F. P. BOOMER, Box 31, Holton, Kansas.

### Peerless White Rocks

Winners at Topeka, Kansas City and Leavenworth. Still have a few choice chicks, pullets on hand. Write for prices and mating list.

### FRANK KNOFF

Box K, Holton, Kansas.

SEED CORN—Boone County White, pure bred, hard shelled, graded, tested, highest yielding strain, farmers' prices on quantities; on sale free. Black Langshan cockerels. Hatching egg orders; catalog free. J. F. HAYNES, Farmer Seed Corn Grower, Grantville, Kan.

### FRENCH QUALITY EGGS

New York, Boston, Detroit, Chicago, Providence and Alaska Yukon-Pacific Exp. winners. Grand lot of pullets and cockerels for sale from winners. Send for my egg circular.

R. S. FRENCH, Flushing, Mich.

### WHITE PLYMOUTH ROCKS

(EXCLUSIVELY.)

For 13 years I have bred White Rocks, the best of all purpose fowls, and have some fine specimens of the breed. I sell eggs at a reasonable price: \$2.00 for 15, or \$5.00 per 45, and I prepay expressage to any point in the United States.

STATION B.

THOMAS OWEN.

TOPEKA, KAN.

### POULTRY RANCH FOR SALE

4 1/2 up, surplus, improved, 1000 sq. ft. in 1000 state. Two acres adjoining Washburn college campus. 8-room house, cellar, cistern, well water, barn. Best poultry house in county. Fruit and ornamental trees. Price \$4,000; half or time if desired. No trades.

POULTRYMAN, Kansas Farmer Office.

Leghorns—S. C. White, Brown and Buff. Also R. C. Reds. Eggs and day-old chicks in season. Send a few good cockerels. From leading eastern strains. Write Prosperity Poultry Farm, E. 2, Kansas, Kan.

### CHAMPION WINNERS

At Kansas City and Topeka shows. Single Comb White Leghorns and White Rocks. Write for prices. Mrs. J. C. Wells, Holton, Kan.

### Webster's White Wyandottes

Winners wherever shown; unequalled egg layers. Write for low prices on eggs.

A. E. WEBSTER, Holton, Kansas.

### For Sale -- Eggs

Rose Comb R. I. Reds. Pen 1, \$1.50 per 15; pen 2, \$1.25; pen 3, \$1.00; \$5.00 per 100. Rose Comb White Leghorns, \$1.00 per 15; \$5.00 per 100. Send for show record.

MODEL POULTRY FARM, Crane, Mo.

### COUNTRY PRODUCE WANTED

Ship us your Poultry and Eggs. Highest market prices paid in cash. No delay in returns. Make us a trial shipment. Write for free shipping tags.

W. C. WISE FARM, PRODUCE AND COMMISSION CO., 1127 Kansas Ave., Topeka, Kan.

30 VARIETIES GESE, DUCKS, CHICKENS; catalogue free. Mink & Co., Mapleton, Minn.

EGGS FROM PURE BRED POULTRY. Mating list free. Harry Inman & Sons, Keokuk, Iowa.

### EVERGREEN POULTRY FARM

Choice Bred P. Rocks; cockerels, \$1.50 to \$3 each; hens, \$1.50 to \$2.50 each, eggs from yards, \$3 per 15; farm range, \$5 per 100.

E. LEIGHTON, Effingham, Kansas.

### SUPERIOR QUALITY

LEIGHTON'S BRED ROCKS

Is proven by latest winnings. At Newton, Garden City and Wichita they won 9 firsts, 9 seconds and 7 thirds. Eggs from pens \$3 to \$5 per setting; from range, \$4 per 100. Send for circular.

E. C. LEIGHTON, Newton, Kan.

WALTON, Harvey County, Kansas.

## The Folly of Changing Breeds

Selecting at the start the breed of poultry we intend to keep, is of the greatest importance. There has been a great deal of money and time wasted in changing breeds. In the first place the choice of a breed in the beginning is frequently made or done by the advice of some very much interested breeder who wishes to get rid of some culs, and hence makes up his particular variety and unleads on the ignorant amateur. It is lamentable that we should have such people in the poultry business, but, alas, they are with us.

It is not an easy matter to make a judicious selection at the start and it should not be done too hastily. The amateur should decide in his own mind what he wishes the breed to do for him. Many have no decided opinion, merely wishing to keep a few hens to provide the family with eggs and eat up the table scraps. It would be well to consult with several reliable breeders as to the proper breed to procure and to be guided by the consensus of opinion. If a few hens are desired to supply the family with eggs and to be admired as well, it is best to select a useful and ornamental breed, thus combining the two qualities. The Brown, White or Buff Leghorn will fill the bill nicely, or if a still more ornamental breed is desired, the Silver Spangled Hamburg, the crested Polish or White Face Black Spanish would answer the purpose. If these are considered too small we have the Brahmas and Bantams, two breeds well adapted to town lots, which combine beauty and laying qualities and are a good table fowl. If we wish to raise a few broilers we have the Plymouth Rocks, the Wyandottes and the R. I. Reds. They are reliable layers, excellent table fowls and not too flighty. There are many other breeds, all claiming some particular quality. Study carefully the quality and characteristics of a breed and determine before purchasing what you expect of them. After having selected a breed it is poor policy to change to a new variety before giving the first a fair trial. Changing from one breed to another, or adding breed after breed to the one originally selected, tends to general dissatisfaction and will eventually turn out a losing investment. A man thus becomes Jack of all trades and master of none, or in other words, he can never fully understand enough about any one particular breed to obtain from it the best results.

Fowls in the abstract require a certain general care which may be accorded to all breeds alike. A hen house will do for any breed, provided the roosts are neither too high nor too low. But the particular care due each breed, or rather class, inasmuch as breeds run in classes, is a matter of study and experience.

This does not pertain to common barnyard fowls, because they are all of the same class and will do their best with general care. It is because of this that it is hard to convince farmers that any fowls require special care. If a person is perfectly satisfied to obtain ninety or a hundred eggs a year as an average per hen from a flock, then there is little use in trying to persuade him to keep better poultry. But this is not considered, at the present day, a promising flock. An average of at least one hundred and fifty eggs is the smallest number one should expect from a flock kept for egg production or for profit. If one can by special care and judicious feeding increase this yield, he will be adding materially to his profit without an increase of expense. The problem is simply to obtain the best results with the least expense and a thoroughbred capable of laying 200 eggs per year costs no more to keep than a common scrub which will not lay enough eggs to pay her feed bill.

In the matter of thoroughbreds, there are natural layers such as Leghorns, Minorcas, Plymouth Rocks, Wyandottes, R. I. Reds. Their capacity is great; it only remains for the breeder to keep them up to their best work and make them give the best results. Take for example the Leghorns. They are known all over the United States as layers. It is their best and characteristic quality. If a person, therefore, wants eggs,

they can produce them. Yet we know of breeders who have discarded these as egg-layers without giving them a fair trial or who have been unable to obtain from them what they consider enough eggs. This is surely not the fault of the breed, but more truly the ignorance of the breeder. When a breed can lay and does not, it is the fault of the breeder nine times out of ten. Dissatisfaction of this sort leads to a change of breed. The breeder thinking merely to better the competition, but forgetting that one is entering on a new field where ignorance is still a greater stumbling block. After trying several breeds, the last extreme is crossing two thoroughbreds to get a better egg-laying or a better carcassed chicken. No one has ever yet derived any benefit from crossing for egg-production. Nothing is to be gained by it.

For example, if a breed, like the Leghorns, are natural egg-layers, in fact, we will say for the sake of argument, the best layers, how can we improve their laying qualities by crossing with any other breed that are no better layers, or in fact, are good. We may improve the carcass, but never the laying quality. Yet we hear, many times, of flocks of cross bred fowls said to be the greatest layers in existence.

The age of the hen makes considerable difference in egg-production. The pullet year is of course the best and many breeders for eggs never keep a hen over her pullet year. Some prefer to go a little further and keep a hen at least through her hen year and perhaps if she is exceptional, until she is three years old. In her hen year she may not lay many eggs, but the eggs will be larger and if used as a breeder the chicks will be larger and stronger than those raised by a pullet. The deficiency in quantity, and this is a deed, is very slight, is made up in quality. She is certainly very profitable during her hen year if she has been a good laying pullet. But the results obtained depend entirely on the breeder. By study and special care the full capacity of any breed may be obtained. If this can be accomplished with one breed, it might be well to add another, but it is the height of folly to change from one breed to another simply because of failure to gain satisfactory results. I know many breeders who make good living and lay by a tidy sum every year, by keeping one and perhaps two breeds. We know many others who have changed from breed to breed, keeping at one time as many as sixteen varieties, who generally declare there no money in raising or breeding poultry. If a breed is nature good and reliable and a money maker, the amount of money made out of it depends upon the man. It is not to be discouraged, therefore, after one year's experience with the breed selected. Give it a fair chance to study its nature for better results next year and by all means do not change for some other breed until the first has become distasteful to you and you have lost interest in it entirely.

### Poultry Don'ts.

CHAS. E. SMITH, BAYNEVILLE, KAN.

Don't—

Forget to clean the hen house often. Think the hens will do it for you. Let your laying hens run out in the snow or snowy weather. It stops egg production.

Forget that early hatched pullets make winter layers.

Think the incubator will run out oil.

Fail to turn your eggs regularly.

Think your competitor is asleep.

He is not.

Forget that the demand exceeds supply.

Fail to raise better poultry more of it every year.

Think the judge does not know business. He does.

Keep the stek fowls with healthy ones.

Doctor a chicken with a contagious disease. Give it the ax.

Forget to give the well ones a ventive.

Force your chickens to roost in draft.

Overlook the fact that well males will improve the flock.



# HOME CIRCLE



This world we're a-livin' in  
Is mighty hard to beat;  
You get a thorn with every rose,  
But ain't the roses sweet!

Let us fold away our fears  
And put by our foolish tears,  
And through all the coming years  
Just be glad.

Left-over coffee and tea mixed with  
love blacking is said to give a bright  
and lasting polish to a stove or range.

A piece of linen or chamolite skin is  
much better to use in needle books, as  
linen is sometimes prepared with  
chemicals which will rust the needles.

Some jealous persons regard the  
financiers' wealth as tainted  
money; but once they get their hand  
on a dollar of it they find it good.—  
Woman's World.

Mrs. Harriet M. King is owner and  
manager of one of the largest farms in  
the world. The farm is known as the  
Santa Gertrude ranch and is located  
near Corpus Christi, Texas. Its pas-  
sage is said to furnish grazing for  
10,000 cattle, 50,000 sheep, and about  
1000 horses. Mrs. King keeps two  
thousand employees busy on the  
ranch.

Here is the idea of a resourceful  
mother: I bought a heart shaped  
cookie cutter and cut a lot of cookies  
with it. I gave my little son a box of  
these to take to school with him, with  
a note to the teacher, requesting per-  
mission for him to distribute them as  
valentines to the class. The chil-  
dren were delighted and the entire  
class was remembered at a trifling  
cost.

**Saving Little "Lungers."**  
It is proper to ask: What have the  
open air schools accomplished after  
two years of practical operation in  
this country?

In Boston for three months in the  
winter of 1909-1910, there were thirty-  
one absences among children in an  
open air class, who during the preced-  
ing three months, when they had at-  
tended day school, showed a record  
of 533 absences. During that time  
thirteen pupils gained 81 pounds, the  
best gain being 1½ pounds and the  
lowest, 10 pounds. This would seem  
point to a big increase in vitality.  
One class in Boston 23 out of 41  
pupils went back to the regular  
school cured, and all but two re-  
mained cured.

At the Providence open air school,  
when the children entered, the aver-  
age percentage of hemoglobin they  
showed on test was 74. In five  
months it had increased to 84. There  
followed a vacation, and when the  
children returned to the school in  
September, it had gone back to 75.  
In the following February the test  
showed an average of 79 and in June  
had again reached 84. (Hemoglo-  
bin, it may be explained, is the chem-  
ical substance that gives the color to  
the blood and is the oxygen carrier of  
the body.) The blood of the normal  
healthy person should show 100 per  
cent of hemoglobin.

At the Vanderbilt roof school, 79  
children were admitted during 1909,  
and, of these, 49 were dismissed to go  
back to the regular school or to go to  
work. Eleven did not improve, but  
most of these were in advanced  
stages when admitted. Thirteen were  
discharged as improved, having re-  
ached a point where they could se-  
cure admission to some hospital or  
sanatorium, which would have ex-  
tended them had they been in the de-  
graded condition they were in when  
admitted to the roof school. Out of  
79, 14 were still in the school at  
the time the report was made.

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essary to true manhood and womanhood. You would expect children of parents who read and cultivate the intellect to be in advance of those who do not. They should be further advanced in their school studies according to their age; they should know and practice better manners; they should be more obedient and exhibit a greater degree of respect for others, be more kind, more patient and have learned, to a greater or less degree, the lesson of self control. There is a certainty that more reading has had an effect, the good results of which will be more apparent in the future. We do not deny the fact. We are glad of it. But the question naturally arises, is the increased reading habit of the people having the reactionary effect on the children it should? Is a reading parent always a good parent and does he, or she, develop greater talents in child training, and are they more moral and do they better understand their duties? Is great wisdom, a strong intellect, and trained ability all the factors needed in child training? A close observer of domestic life has noted that they are not. Superior intelligence of parents is not kindness. And kindness is one chief factor in gaining the confidence of a child and retaining its respect. Mere ability in a business or social way is not tact nor expediency, both of which are indispensable in child culture. Courage and strong will power as commonly exercised does not always guide the youthful mind to self control. Thus it will be seen some of the attributes considered as necessary in our industrial struggle for existence are not the best means to be used when applied, unmodified, to the training of children. As an illustration of the failure of parents to properly train children we introduce Mr. and Mrs. M. Mr. and Mrs. M. were both fond of reading, were intelligent, cleanly and industrious. They were in fairly good circumstances. Each child as it became of playful age and some understanding was taught to make faces at its mother; to shake its fist at people and sometimes even to spit at them. This was the first introduction to adult teaching and of course left an indelible impression. As time passed by it was taught other lessons also. When the child wanted something it could not have its mother bribed it to be satisfied with something else. This taught it to cry for what it wanted. Then the mother would threaten it with the booby man and similar lies to restore quiet. This mother often would say, "Now, Johnny, you mustn't do that. If you do mamma'll whip," in a tone Johnny knew by experience had no definite meaning, so straightway Johnny would disobey after which his mother would plead, "Now, Johnny, what did you do that for? Johnny's mamma's bad boy." Often when his father would correct him his mother would intercede in the child's behalf and upbraid her husband. Sometimes it was the other way. This division of control, or rather lack of it, after awhile caused both parents to lose authority and control over the child hence the child lost respect and confidence in the parents and they often wondered why Johnny had grown so unruly!

The older boys were treated harshly for some minor offense while at other times an intentional disobedience was passed by without notice, the treatment in either case depending on the mood the father or mother happened to be in. Many times they were bribed to do a simple duty and then refused the bribe! Then they wondered where they boys learned to be falsifiers. Several times, to my knowledge, the father gave one of the boys a runty pig or stunted calf to raise. How little Johnny, or Willie, loved and fed and petted that calf or pig! How it grew! By and by father sold the pig, or calf, which by this time was the best of the bunch, and kept the money. Johnny was at first surprised, then grieved, then indignant, grew revengeful and despondent. All the child's rights in this case had been trampled on; his little manhood dishonored, hope destroyed and faith lost. Mr. M. always commanded and never requested. There was seldom kindness in the look or voice. There was lacking a sense of comradeship and cooperation. Hence, much to Mr. and Mrs. M.'s surprise, the boys did not

seem to be industriously inclined. They seemed to take little interest in the farm work. No wonder!

The father and mother often differed in regard to the training of the children. This difference amounted to quarreling on numerous occasions and before the children, to! The father would command the child to perform a certain duty; the mother would tell the child not to. If it obeyed the father the mother would chastise, and vice versa. Under such conditions how can a child develop any but evil and bad qualities? Is the child to be blamed? Who made the laws and environments surrounding its life? Who instructs it during infancy and early childhood?

This subject is the greatest and most important man is ever called on to properly solve and, in conclusion, I wish to call to parents' attention a few vital things which you must adopt, else you will be rearing disobedient, cruel, selfish children with a great tendency to vice and crime. You must control your own impulses, will and desires. You must live an even, smooth, peaceful life. You must not quarrel. You must agree on the rules which shall govern the children. If you do not agree naturally you must compromise and never under any circumstances allow the children to know there is not perfect harmony of authority.

Always keep your word. Don't expect because they are children that you can falsify to them and that they will develop great veracity.

Always be kind to your husband or wife. Parents must be loving else children will not be. Don't gossip. Don't criticize only so far as to show the best way, or good purposes or some moral.

Be firm but not arbitrary. Don't repeat requests; teach immediate obedience. Don't bribe a child to do a simple duty. Teach children the cause of things, the reason why. You are simply a guide and instructor to them and can use only your knowledge and experience. Then educate and train yourself for the proper discharge of this important duty you owe to posterity for all time to come.—A. A. Weld, Medford, Okla.

A good cure for hiccoughs is made by mixing a little vinegar with granulated sugar. A teaspoonful of this mixture will generally stop the hiccoughs immediately. In a severe case a second spoonful can be administered.

Something well worth remembering is that if you scorch a garment while ironing it the yellow spot will disappear if you rub a lump of dry starch on it and then sponge it off. If the first application does not entirely remove the stain repeat the process.

Few children would know what fear is if not taught it by older people. From the first teach them to go to bed alone and without a light in the room. Also guard against any telling stories to frighten them and fear of the dark will be something unknown.

When baking beans the next time try using sausages instead of salt pork. They should be almost covered by the beans when put in the oven. When cooked the sausages are not only delicious but the fat in the blends with the beans better than pork does.

With the opening of spring comes a rush of business which sometimes causes the farmer to overlook things that should have received attention. The wise man is always he who is prepared, and just now a very profitable investment could be made in postage stamps by the use of which catalogs of seeds, implements, machinery, live stock and everything else that is likely to be needed on the farm can be obtained. These can be studied carefully before the rush season. KANSAS FARMER is ready to lend any assistance in the way of furnishing information on any subject. We do not wish to have our readers write to us for such information after they have received the catalogs from the seed houses, nurseries and manufacturers. After these are read, if there should be any difficulties present themselves, then write the editor of KANSAS FARMER and will help you out the best he can.



# EMPIRE BUILDERS

By FRANCIS LYNDE

"I DESIRE TO GO NOW! IS THAT SUFFICIENTLY EXPLICIT?"



## CHAPTER XVII.

### A NIGHT OF ALARMS.

FORD put Miss Alicia up the steps of the Nadia and followed her into the vestibule, meaning to fight it out with Mr. Colbrith on the spot, and hoping he might have a private audience with the president for the doing of it.

The hope was not denied. Penfield, who was acting as private secretary to Mr. Colbrith, en route, appeared in the passage way to say that Ford was wanted in the president's state-room.

"Well, Mr. Ford, what are we waiting for?" was the querulous demand which served as Mr. Colbrith's greeting when Ford presented himself at the door of the private compartment.

Ford's reply lacked the deferential note. He had reached a point at which his job was not worth as much as it had been.

"I have just brought Miss Adair back from the top of the pass, where we met Mr. Frisbie, my chief of construction. I wished to ask him if he thought the track was safe for your car, and he says, most emphatically, that it is not. I cannot take the responsibility of sending the Nadia to the end-of-track."

The president's thin face was working irritably. "I haven't asked you to assume any responsibility, Mr. Ford. If the track is safe for your material trains, it is safe enough for my car. But I didn't send for you to argue the point. I desire to have the Nadia taken to the front. Be good enough to give the necessary orders."

Ford tried again. In addition to the precarious track there were few or no unoccupied sidings, especially near the front. Moreover, there was no telegraph service which might suffice for the safe despatching of the special train. There might be entire sections over which the Nadia would have to be flung by a man on foot, and—

The president cut him off with almost childish impatience. "I don't know what your object is in putting so many stumbling blocks in the way, Mr. Ford," he rasped. "A suspicious person might say that you have been doing something which you do not wish to have found out."

Ford was a fair-skinned man, and the blood burned hotly in his face. But, as once before under the president's nagging, he found his self-control rising with the provocation.

"My work is open to inspection or investigation, now or at any time, and I think we need not discuss that point," he said, when he could force himself to say it calmly. "We were speaking of the advisability of taking the Nadia and a pleasure party over a piece of raw construction line, and into an environment which, to put it mildly, could hardly be congenial to the ladies of the party. You know, or ought to know, the MacMorroghs; their camps are not exactly models of propriety, Mr. Colbrith."

This was merely waving a red flag at an already exasperated bull. The president got upon his feet, and his shrill falsetto cut the air like a knife.

"Mr. Ford, when I wish to be told

what is or is not proper for me to do, I'll ask you for an opinion, sir. But this is quite beside the mark. Will you order this car out, or shall I?"

Ford looked at his watch impatiently. Now that the president was thoroughly angry, he could afford to be cool.

"It is now five o'clock; and our end-of-track is fully one hundred and ten miles beyond the summit of the pass. Do I understand that you wish to take the added risk of a night run, Mr. Colbrith? If so, I'll give the order and we'll pull out."

"I desire to go now!" was the irascible reply. "Is that sufficiently explicit?"

"It is," said Ford; and he left the presence to go forward to the cab of the waiting engine.

"You are to take the car over the mountain, Hector," he said briefly, to the beetle-browed giant in blue denim, when he had climbed to the foot-plate. "I'll pilot for you."

"How far?" inquired the engineer. "Something like a hundred and ten miles."

"Holy smoke! over a construction track—in the night?"

"It's the president's order—none of mine. Let's get a move."

The big man got down from his box and made room for Ford. "I'll be pilin' 'em in the ditch somewhere, as sure as my name's Bill Hector," he said. "But we'll go, all the same, if he says so. I've pulled Mr. Colbrith before. Down with you, Jimmy Shovel, and set the switch for us."

The fireman swung off and stood by the switch, and Hector backed his one-car train from the siding. When he had picked up the fireman and was ready to assault the mountain, Ford thrust a query in between.

"Hold on a minute; how is the water?" he asked.

Jimmy Shovel climbed over the coal to see, and reported less than half a tankful.

"That settles it," said the chief to Hector. "You'll have to back down to Saint's Rest and fill up. You'll get no more this side of Pannikin Upper Canyon. We haven't had time to build tanks yet."

Hector put his valve-motion in the reverse gear and began to drop the train down the grade on the air. A dozen wheel-turns brought a shrill shriek from the air-signal whistle. Mr. Colbrith wished to know why his train was going in the wrong direction. Hector applied the brakes and stopped in obedience to the signal.

"Do we send back," he asked.

"No," said Ford sourly. "Let him send forward."

Penfield was the bearer of the president's question. Would it be necessary to discharge somebody in order to have his commands obeyed?

Ford answered the petulant demand as one bears with a spoiled child. They were returning to Saint's Rest for water. Let the president be assured that his orders would be obeyed in due course.

"He's a piker, the old man is," said the big engineer, once more giving the 1012 the needful inch of release to send it grinding down the hill. "I'd rather pull freight thirty-six hours on end than run his car for a hundred miles."

There was trouble getting at the wa-

ter tank in the Saint's Rest yard. Leckhard, acting as division engineer, telegraph superintendent, material forwarder and yardmaster, found it difficult at times to bring order out of chaos in the forwarding yard. It was a full hour before the jumble of material trains could be shunted and switched and juggled to permit the 1012 to drop down to the water tank; and four times during the hour Penfield climbed dutifully over the coal to tell Ford and the engineer what the president thought of them.

"Durn me! but you can take punishment like a man, Mr. Ford!" said Hector, on the heels of the fourth sending, sinking rank distinctions in his admiration for a cool fighter. "These here polite cussins-out are what I can't stand. Reckon we'll get away from here before the old man throws a sure-enough fit?"

"That's entirely with the yard crew," said Ford, calmly making himself comfortable on the fireman's box. "We'll go when we can get water; and we'll get water when the track is cleared. That's all there is to it." Whereupon he found his cigar case, passed it to Hector, lighted up, and waited patiently for another second-hand wigging from the Nadia.

As it chanced the tank track was cleared a few minutes later; the 1012 was backed down and supplied, and Ford instructed Leckhard to do what he could with the single, poorly manned construction wire toward giving in the president's special a clear track.

"That won't be much," said the hard-worked base-of-supplies man. "We've got our operator at Ten Mile, and Brissac and Frisbie have each a set of instruments which they cut in on the line wherever they happen to be. I don't know where Brissac is, but Frisbie is down about Riley's tonight, I think. After you pass him you'll have no help from the wires."

"I'll have what I can get," asserted Ford. "Now tell me what we're likely to meet."

Leckhard laughed. "Anything on top of earth, from Brissac or Jack Benson or Frisbie chasing somewhere on a light engine, to Gallagher or Folsom coming out with a string of empties. Oh, you're not likely to find much dead track anywhere after you get over the mountain."

Ford swung up beside Hector, who had been listening. "You see what we're in for, Hector. Start your headlight dynamo and let's go," he said; and five minutes farther on, just as Penfield was about to make his fifth scramble over the coal in the tender, the 1012 took the upward road with a deafening whistle shriek as its farewell to Saint's Rest.

It was pocket-dark by the time the switch-stand at the basin siding swung into the broad beam of the electric headlight. Ford got down from the fireman's box and crossed over to the engineer's side to pilot Hector.

"How's your track from this on?" inquired the big engineer gruffly.

"It is about as rough as it can be, and not ditch the steel trains. You'll have to hold her down or we'll have results."

"What in the name o' thunder is the old man's notion of goin' to the front with a picnic party and makin' a night run of it, at that, d'y'e reckon?"

"The Lord only knows. Easy around this curve you're coming to; it isn't set up yet." The 1012 was a fast eight-wheeler from the main line, and though the grade was a rising four per cent, the big flyer was making light work of her one-car train.

Ford sat gloomily watching the track ahead as the great engine stormed around the curves and up the grades. The struggle against odds was beginning to tell on him. The building of this new line, the opening of the new country, was the real end for which all the planning and scheming in the financial field had been only the necessary preliminaries. For himself he had craved nothing but the privilege of building the extension; of rejoicing in his own handiwork and in the new triumph of progress and civilization which it would bring to pass. But little by little the fine fire of workmanlike enthusiasm was burning itself out against the iron barriers of petty spite and malice thrown up at every turn by North and the Denver junta of obstructionists.

He was at no loss to account for North's motive. It was no longer the contemptuous disregard of a general manager for one of his subordinates who had shown signs of outgrowing his job. It was a fight between rivals—equals—and Ford knew that it must go on until one or the other should be driven to the wall. Thus far, his antagonist had scored every point. The MacMorroghs had been helped into the saddle and held there. Mr. Colbrith had been won over; the authority given Ford by his appointment as assistant to the president had been annulled by making North the first vice president with still higher authority. With a firm ally in the president, and a legion of others in the MacMorroghs' camps, North could discredit the best engineering corps that ever took the field; and he was doing it—successfully, as Ford had reason to know.

More than once Ford had been on the point of leaving his plow in the furrow while he should go to New York for one more battle with the director—a battle which should definitely abolish North and Mr. Colbrith—or himself. Again and again he had weighed the chances of winning such a battle. With Brewster for a leader it might be done. The time for the annual stockholders' meeting was approaching, and an election which should put the burly copper magnate

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into the presidency would be an un-mixed blessing, not only for a struggling young chief of construction, but for the Pacific Southwestern stockholders, who were sure to pay in the end for the present policy of rule or ruin.

Part of the time it seemed to Ford that it was clearly his duty to make this fight against the grafters in the Denver management. North deserved no consideration, and while Mr. Colbrith was honest enough, his blind prejudice and narrow mentality made him North's unwitting accessory. Three months earlier Ford would not have hesitated; but in the interval a woman had come between to obscure all the points of view. A light to the death against the Colbrith administration meant the antagonizing of the Adairs—of Alicia, at least. True, she had spoken lightly of her uncle's peculiarities; but Ford made sure she would stand by him in the conflict, if only for kinship's sake.

All this he was turning over in his mind for the hundredth time while the big 1012 hammered up the Plug Mountain grade under the guiding hand of the giant in blue denim. Ford, glooming out upon the lighted stretch ahead, was once more finding the crucial question answerless. Should he draw out of the losing battle with North and his fellow grafters, and thereby save his chance of winning Alicia Adair? Or should he sacrifice his love upon the altar of ambition, abolish Mr. Colbrith and the crew of bucaniers his mistaken policy was sheltering, and win the industrial success and a quieted conscience?

His decision was reached by the time Hector was easing the throttle lever at the summit of Plug Pass. What must be done should be done quickly.

"Right here is where you begin to run on your nerves," he said to the big engineer, as the heavy engine and car lunged over the summit of the pass and began to gather gravity momentum on the downward rush.

Hector nodded, and twitched the handle of the air-brake cock at short intervals. Ford glanced back at the following car framed in the red glow from the opened fire box. It was surging and bounding alarmingly over the uneven track, not without threatenings of derailment. Ford was willing to give the president the full benefit of his unreasonable pertinacity; but there were others to be considered—and one above all the others.

"Easy man; easy!" he cautioned. "If you leave the steel on this goat-track there won't be anybody left to tell the story. It's a thousand feet sheer in some places along here. Suppose you let me take her to the bottom of the hill."

The engineer stood aside with a good tempered grin. He had seen the chief of construction walking the one young lady of the party to the top of Plug Pass and back, and it was not difficult to account for his anxiety.

Throughout the ten long miles of the mountain descent Ford crouched on the driver's seat and put his mind into the business of getting down the slides and around the sagging curves without having a wreck. The 1012's brake equipment was modern, and the Nadia's gear was in perfect order. Now and then on a tangent the big engine would straighten herself for a race or a runaway, but always the steady hand on the air-cock brought her down just before the critical moment beyond which neither brakes nor the steadiest nerve could avail. Thrice in the long downward rush Ford checked the speed to a foot-pace. This was in the rock outcroppings where the jagged faces of the cliffs thrust themselves out into the white cone of the headlight, scanting the narrow shelf of the right-of-way to a mere groove in the rock. He was afraid of the cuttings. One of the many tricks of the MacMorroghs was to keep barely within the contract limits on clearance widths, and once the Nadia, sagging mountainward on the roughly leveled track at the wrong moment, touched one of the out-hanging rocks in passing. Hector heard the touch, and so did Ford; but it was the engine, man who made a grim jest upon it, saying: "If she does that more'n once or twice, there'll be a job for the car painters, don't you reckon, Mr. Ford? And for the carpenters."

Just below the doubling bend in the great loop they came in sight of the first of the MacMorrogh camps. Since the night was frosty a huge bonfire was burning beside the track; and when Hector blew his whistle, some one flagged the train with a brand snatched from the fire. Ford stopped because he dared not do otherwise.

"Well, what's wanted?" he snapped, when the train came to a stand, and the brand-slinger, backed by a dozen others, made as if he would climb to the cab of the 1012.

"Some of us fellows want to go down to Ten Mile—the liquor's out," said the man trying to get a fair sight of the strange engineer.

"Get off!" said Ford; and Hector made the order effective by shoving the intruder from the step. That was easy; but before the train had measured twice its length, a pistol barked thrice and the glass in the cab window on Ford's side fell in splinters.

"Holy smoke!" said Hector. "Is them the kind of plug-uglies you've got over here, Mr. Ford?"

Ford nodded. His eyes were on the track again, and he was hoping fervently that the three shots had all been aimed at the engine. A mile farther on, Penfield came sliding over the coal to say that the president wanted to know what the shooting was about.

Ford turned the 1012 over to Hector. The track hazards of the mountain grade were safely passed.

"Did any of the shots hit the car?" he asked of Penfield.

"No."

"Well, if you have to say anything before the ladies it might be advisable to make a joke of it. Signal torpedoes

sound very much like pistol shots, you know."

Penfield nodded. "But to Mr. Colbrith?"

"To Mr. Colbrith you may say that a gang of drunken MacMorrogh surfacers flagged us down, and when we wouldn't let them have the train, made a little gun play."

"Heavens!" said the clerk, whose curiosity stopped short at the farthest confines of any battle-field. "Is that sort of thing likely to happen again, Mr. Ford?"

"I want to see the engine that so nearly plunged us into a collision last night," she said aloud; and Penfield's visible ear betrayed the listening mind.

Ford took his cue promptly. "We can go out the other way," he said; and the secretary pro tempore had no excuse for following.

They found the cab of the 1012 deserted, with the steam in the huge boiler singing softly at the behest of the banked fire. Miss Adair lost her curiosity as soon as Ford had lifted her to the foot-plate.

"Now you are to tell me all about it—quickly," she commanded. "Uncle Sidney will be calling for you as soon as he misses you. Why are you so foolish as to talk about resigning? Don't you see what they will say then?—that you were afraid?"

Ford was leaning against the centered reversing lever, and his face was gloomy again.

"Possibly I am afraid," he suggested. "You should be more afraid of dishonor than of the other things. Do you suppose Mr. North will be content with your resignation now?"

Ford looked up quickly. Here was a new revelation—an unsuspected facet of the precious gem. He could hardly believe that this steady-voiced, far-seeing young woman was the insouciant, school-girlish—though none the less lovable—young person with whom he had tramped to the wind-swept summit of Plug Pass in the golden heart of the yesterday.

"You mean—?" he began.

"I mean that you will be discredited; disgraced if possible. Are you sure you haven't been doing anything over here that you wouldn't want Uncle Sidney to find out?"

"Not consciously, you may be sure," he asserted unhesitatingly.

"Think; think hard," she urged. "Is there nothing at all?"

He could not help smiling lovingly at her scarce-concealed anxiety—though it was merely the anxiety of a noble soul unwilling to stand by and see injustice done.

"My methods never get very far underground," he averred. "Not far enough for my own safety, Frisbie says. If I had been keeping a diary, I think I should be quite willing to let Mr. Colbrith read it—or print it, if he cared to."

"And yet there is something," she asserted, and the straight brows went together in a little frown of perplexity. "You don't ask me how I know: I'm going to tell you, Mr. Ford—though it's rather shameful. Three days ago, while we were in Denver, Mr. North came down to the car to see Uncle Sidney."

"Yes?" he encouraged.

"They were closeted in Uncle Sidney's state room for a long time," she went on. "I—I was walking with Miss Van Bruce, up and down the station platform beside the Nadia. Uncle Sidney had told me not to go very far away because we were likely to start at any moment. The car windows were open."

Her embarrassment was growing painfully apparent, and Ford came to the rescue.

"You were not even constructively to blame," he hastened to say. "They must surely have seen you passing and repassing, and if they wished for privacy they might have closed the windows."

"I didn't hear much; only a word or two, now and then. They were talking about you and brother; and—" She stopped short and laid her bare hand on the throttle-lever of the big engine: "What did you say this was for?" she asked ingenuously.

Ford's up-glance of surprise was answered by a glimpse of Penfield sauntering past on the other side of the track. She could not have seen, but she had doubtless heard his footsteps on the gravel.

"It's the throttle," said Ford, answering her question. And then: "Please go on; he is out of hearing."

"They were speaking of you and brother; and—and of me. I can't repeat a single sentence entire, but I know Mr. North was accusing you in some way, and apparently implicating me. Perhaps I listened in self-defense. Do you think I did, Mr. Ford?"

"You certainly had a good right to," said Ford, who would have sworn in her behalf that the morally black was spotless white. "But how could you be implicated?"

"That was what puzzled me then—and it is puzzling me still. They said—or rather Mr. North said—that you—that you had bought me!"

Ford did not say that he would like to buy, beg, borrow or steal any kind of right to call her his own, but if his lips did not form the words they were lying at the bottom of the steady gray eyes for her to take or leave as she chose.

"I am sure you couldn't have heard that part of it quite straight," he said, almost regretfully.

"But I did, because it was repeated. Mr. North insisted that you had bought me; and I didn't like the way in which he said it, either. He called me 'the little Alicia.'"

"What!" said Ford; and then a flood of light burst in upon at least one of the dark places. "It's only a mine," he said sheepishly. "And I did buy it, or half of it."

She was regarding him accusingly now.

"Did you—did you name it?" she



and there was the merest breath of frost in the air.

"I was glad to be able to tell the truth without flinching."

"No; it is one of the earliest of the Copah prospects, and I suppose the discoverer named it. I am willing to do his choice, though. He couldn't have found a prettier name."

She went back to the matter in hand with womanly swiftness. "But the mine; you had a right to buy it, didn't you?"

"I should suppose so. I paid for it with my own money, anyway."

"Then why should Mr. North use it as an argument against you in speaking to Uncle Sidney?" He did that—I am sure he did that."

"Now the water has grown too deep for me," said Ford. "Why, North, himself, is interested in Copah, openly. He owns half a dozen claims."

"Near yours?" she queried.

Ford stopped to consider. "To tell the truth, I don't know where mine is," he confessed. "I bought it as the school boys trade picket knives—sight unseen. You wouldn't believe it of a grown man, would you?"

"What made you buy it at all?"

Again he told the simple truth—and tried not to flinch.

"You won't mind if I say that the name attracted me? I thought a mine, or anything, that bore your name, ought to be good—and desirable. And it is a good mine; or it will be, by and by. Some morning I shall wake up and find myself rich. At least that is what my partner, Grigsby, assures me; and I believe him when I happen to remember it."

She neither approved nor disapproved. When she spoke, it was of the present necessity. "We must go back to the others now," she said. "Or at least I must. Do you know what is to be done today?"

Ford spread his hands.

"Your uncle will set the pace. I wouldn't venture a guess, after last night."

He was handing her down from the engine step and she went back in a word to the former contention.

"You haven't promised me yet that you will not resign under fire—you are under fire, you know."

"Am I?"

"Brother thinks you are."

Once more he took the pessimistic view.

"Your brother isn't losing any sleep over the Pacific Southwestern situation. You said he was in England, didn't you?"

"I said he was in London when he wrote."

"London is a long way off; and what I do must be done to-day or tomorrow. Mr. North will force the fighting, now that your uncle is on the ground, and your brother safely on the opposite side of the earth. And I can't afford to fight this time, Miss Alicia."

"Why can't you?"

They were walking slowly back toward the Nadia when he said: "Because a victory would cost me more than I am willing to pay. There is no longer room in this service for Mr. North and me. If we come to blows one of us will have to go."

"I can understand that," she said quietly.

"And to obliterate Mr. North, I shall be obliged to efface—your uncle."

She caught her breath.

"Mr. Ford, you have intimated that Mr. North isn't an honest man. Do you ask me to believe that Uncle Sidney is his accomplice?"

"He is not, knowingly. But he will stand or fall with the man he has made. I should have to ride him down before I could get at North."

Her lips curled and the straight-browed little frown came again. "There is no such thing as mercy in business, is there, Mr. Ford? My uncle is an old man and his presidency means more to him—"

"And then?" said Ford.

"Then I got out my horse and rode up the creek and through some of the camps on the Copah detour. The star-eyed goddess of reform had evidently landed on that coast, too. Donahue's Hungarians were singing war songs around their camp-fire, as usual, and Contadini's Tuscan were out in full force, geying the night-shift track layers. But there was no bad blood, and no whisky to breed it. You're done up again, Stuart."

"I don't see that," said Ford, who, besides being short on sleep, was rejoicing in the thought that Alicia and the other women of the private-car party would not have to be blind and deaf.

"Don't you? You've been protesting to beat the band about the lawlessness and dissipation of the MacMorrogh camps. Accordingly, Mr. Colbrith comes over here to see for himself; and what will he see? Decency on a monument smiling reproachfully at her unprincipled transgressor. MacMorrogh will rub it into you good and hard. Can't you feel the Sunday school atmosphere right here in the headquarters this morning? Look down yonder at the Nadia—wouldn't that soothe you, now?"

Ford looked and the scowl which was coming to be a habit transformed itself into a cynical smile. A hundred or more of the MacMorrogh laborers, hats off and standing at respectful attention, were clustered about the rear platform of the private car, and Mr. Colbrith was addressing them; giving them the presidential benediction, as Frisbie put it irreverently.

"Don't you see how you are going to be hoisted with your own ammunition?" the little man went on spite-plaunts of drunkenness and crime, eyes what truly good people the MacMorroghs are? And what conclusion will he arrive at? There's only one, your reputation is concerned; you are so desperately bent on having your own way that you haven't scrupled to

tell me about these angelic contract-

"Let up, Dick," said Ford gruffly. "I've got about all I can carry till I catch up on sleep a little. But you're right; this is the place where the fireworks come in. I think I'll go and light the fuses while I'm keyed up to it."

The crowd of laborers had dispersed by the time Ford reached the Nadia, and the president, benign from the reactionary effect of his own early-morning eloquence, was waiting for him.

"Ah; we did reach the front safely, after all, didn't we, Mr. Ford?" was Mr. Colbrith's mildly sarcastic greeting. And then: "Come aboard, sir; we are waiting breakfast for you."

Ford would have declined promptly, if the invitation had been anything less than a command. He had met none of the members of the private-car party save Miss Alicia, and he did not want to meet them, having the true captain-of-industry's horror of mixing business with the social diversions. But with one example of the president's obstinacy fresh in mind, he yielded and climbed obediently to the raised platform. Whatever happened, he should see Alicia again, a privilege never to be too lightly esteemed, whatever it cost.

The social ordeal was not so formidable. The private-car party was made up of the president and his sister-in-law, the president's family physician, Doctor Van Bruce, the doctor's wife, his sister, a maiden lady of no uncertain age, and Alicia. These, with Penfield and Ford, made the eight at table in the open compartment in the Nadia; and Ford, in the seating, was lucky enough to find his place between Miss Van Bruce, who was hard of hearing, and Miss Alicia, who was not. Luckily again, Mr. Colbrith omitted all talk of business, drawing his end of the table into discussion of the effects of the dry altitudes in advanced stages of tuberculosis.

"What a dreadful night you must have had, Mr. Ford," said Alicia, when the tuberculosis subject was well launched at the other end of the table. "Were you on the engine all the time?"

"Most of the time," he confessed. "But that was nothing. It wasn't my first night in the cab, as it won't be the last, by many, I hope."

"Why? Do you like it?"

"Not particularly. But I hope to live a while longer; and while I live I shall doubtless have to ride with the engine-men now and then."

"Was it very bad—last night?" she asked.

"I am afraid you know it was. Could you sleep at all?"

"Oh, yes; I slept very well—after that terrible shaking up we had just before bedtime. What was happening then?"

"Nothing much. We were about to try the old experiment of passing two trains on a single track."

"Mercy!" she exclaimed.

It was safely retrospective now, and Ford could smile at her belated shock.

"Were the others alarmed?" he asked.

"Mrs. Van Bruce and Aunt Hetty were. But Uncle Sidney fairly coruscated. He said that an engineer who would make such a stop as that ought to be discharged."

"Hector was willing to quit," laughed Ford. "He grumbled for a full hour afterward about the wrenching he had given the 1012. You see he might have taken about six feet more for the stop, if he'd only known it."

Miss Alicia said "Mercy" again. "Were we as near as that to a collision?" she asked, in a hushed whisper.

"We were, indeed. The freight was supposed to be on a siding—broken down. The crew tinkered things up some way, and the train proceeded. Luckily, the freight engineer saw our electric headlight farther than we could see his oil lamp, and the track happened to be measurably straight."

Miss Adair was silent for a little time, waiting for the lapsed tuberculosis discussion to revive. When it was once more in full swing, she asked quickly:

"What is the programme for today? Must we all stay in the car as you intimated yesterday?"

Ford glanced across the table to make sure that Jenfield was not eavesdropping.

"It will not be necessary. Your coming—or the president's—has reformed things wonderfully. Frisbie says—but never mind what he says; the miracle has been wrought."

He said it with such an evident air of deflection that she wondered. And with Miss Alicia Adair the step from wonderment to investigation was always short.

"You say it as if you were sorry," she said. "Are you?"

"Oh, no; I'm glad—for your sake. But I wonder if you could understand if I say that it will make it a thousand times harder for me?"

"I can understand when I'm told," she retorted.

The table-for-eight was no place for confidences; and Ford knew Penfield's weakness for soaking up information. Yet he took the risk.

"You remember what I hinted at yesterday," he said in low tones; "about the rough house we have been having in the camps. It hasn't stopped short of murder. I objected to the MacMorroghs before the contract was given to them; and since, I have fought the lawlessness as I could. Now your uncle comes over here and doesn't find any lawlessness. What is the inference?"

"That you have been—" she took him up quickly, and there was a swift indignation in the blue eyes.

"—lying to gain a personal end," he finished for her.

Penfield had been apparently listening avidly to the president's praise of the dry altitudes as a sure cure for consumption, but now he had his face in his plate. Ford devoted himself for the moment to the deaf Miss Van Bruce and when he turned back to Alicia he was telegraphing with his eyes for dis-



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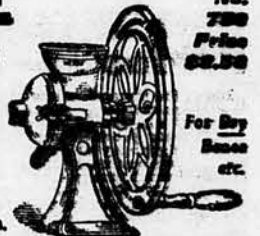
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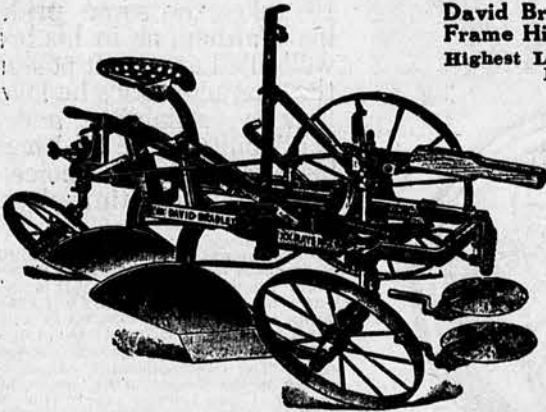


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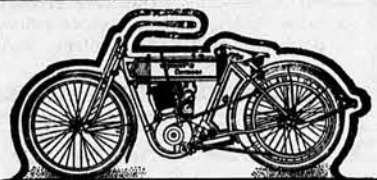
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cretion. She understood, and the low-toned tete-a-tete was not resumed. Later, when they had a moment together in the dispersion from the breakfast table, he tried to apologize for what he was pleased to call his "playing of the baby act." But she reassured him in a low-spoken word.

"Brother told me—I know more than you give me credit for, Mr. Ford. Mr. North doesn't like you—he would be glad if you would resign. You must not resign!"

The others, personally conducted by Mr. Colbrith, were crowding to the rear platform for an after-breakfast view of the headquarters camp. Ford and Alicia followed, but without haste.

"You have chanced upon the word, Miss Adair," Ford was saying. "I decided last night that I should resign."

"No," she objected.

"Yes; I must. Sometime I may tell you why."

"I say you must not. That was the last word in brother's letter; and he wished me to repeat it to you," she insisted.

"Where is your brother?" he asked. "He was in London when he wrote."

"He has thrown up his hand," Ford was pessimistic again.

Miss Adair looked about her despairingly for some means of prolonging the whispered confidence. Penfield, deferentially in the rear of the platform group, was never safely out of ear-shot.

"Your guess is as good as anybody's," said Ford curtly. "Better get back to the car as quickly as you can, before Mr. Colbrith whistles us down to find out what has become of you."

Below the camp of the surfacers there were a few miles of better track, and Hector made fair time until the train circled the mountain shoulder at the lower end of the great loop. Beyond this the roughnesses began again, and there were more of the skimped rock cuttings. At Ten Mile, which was a relay station in the upper canyon for the halting of supplies and material for which there was no room at the ever-advancing "front," they stopped to try for track-clearings.

As Leckhard had foretold, the operator could give them little help. Two hours earlier, a train of empties in two sections had left the end-of-track, coming eastward. Whether it was hung up at one of the intervening sidetracks, or was still coming, the operator could not say; and there were no means of finding out. Also, Mr. Frisbie, who had reached Riley's camp late in the afternoon, had left there after supper and was somewhere on the line with his light engine—probably on his way to the front, the operator thought.

Hector removed his great weight from the telegraph counter and the woodwork creaked in relief. What he said was indicative of his frame of mind.

"Humph!" he growled. "If we don't get tangled up with Mr. Frisbie's light engine, it's us for a head-ender with the string of empties. Isn't that about it, Mr. Ford?"

"That's it, precisely."

"Which means that Jimmy Shovel trots ahead of us for a hundred mile or so, carryin' a lantern like a blame' Dio-geenes huntin' for an honest man."

"That is the size of it," said Ford; but just then the sounder on the table began to click and the operator held up his hand for silence.

"Hold on a minute," he interrupted, "here's a piece of luck—it's Mr. Frisbie, cutting in with his field set from Camp Frierson. He is asking Saint's Rest about you."

"Break in and tell him we're here," said Ford; and when it was done, "Ask him about that string of empties."

The reply was apparently another piece of luck. Frisbie, going westward, had passed the first section of the freight train at Siding Number Twelve. It was hung up with a broken draw-head on the engine, and was safe to stay there, Frisbie thought, until somebody came along with a repair kit, which, it might be assumed, would not be before morning.

At this point Ford went around the counter and took the wire for a little personal talk with the first assistant. It ignored the stalled freight train, and Ford's rapid clickings spelled out an order. Frisbie was to drop everything else, and constitute himself the president's avant-courier to the end-of-track camp, which, at the moment, happened to be the MacMorroggs' headquarters at the mouth of Horse Creek. All liquor selling was to be stopped, the saloons closed, and the strictest order maintained during the president's stay—this if it should take the entire field force to the engineering department to bring it to pass.

"Don't," clicked Frisbie, from the other end of the long wire. And then at the risk of giving it away to every operator on the line: "You're doing yourself up. Let the president see for himself what he has let us in for."

Ford's reply was short and to the point. "The order stands. There are others besides the president to be considered. Good night."

"Well, we go to this here Siding Number Twelve, do we?" said Hector, when they were clambering once more to the foot-plate of the 1012.

"Safely, I think," said the chief, adding: "You can't run fast enough over this track to get into trouble, anyway."

That was the way it appealed to Hector for the succeeding twenty miles. When the track was not too rough to forbid speed, the cuts were too numerous, and the big flyer had to be bitted and held down until some of Hector's impatience began to get into the machinery. This shall account as it may for what happened. A mile or two below Riley's, where the lights were all out and the turmoil of the day of strikes had apparently subsided, the canyon opened out into a winding valley, and when Ford called across to Hector: "There are no rock cuts on this section, and we are partly surfaced. You can let her out a little for



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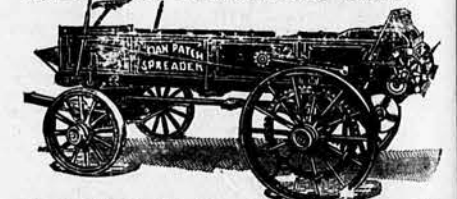
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a few miles," the engineer took the permission for all it was worth and sent the eight-wheeler flying down the newly-ballasted stretch.

Two long curves were rounded in safety, and the special was approaching a third, when to Ford, track-watching even more anxiously than Hector, a dull red spot appeared in the exact center of the white field of the electric. For a moment it puzzled him, but the explanation came with a vigorous shock an instant later. It was the oil-lamp headlight of the freight!

Hector was huge enough to be slow, if bigness were a bar to celerity. But no drill-master of the foot-plates could have brought the flying train to a stand with the loss of fewer seconds. Happily, too, the 1012's electric headlight served as a danger signal seen from afar by the engineer of the freight. So it chanced that the two great engines merely put their noses together; and by the time Penfield came scrambling over the coal with the inevitable query from the president, the jolting stop was a thing of the past, and the train was in motion again, following the freight, which was backing, at Ford's order, to the nearest siding.

"No more hurry for us tonight, Hector," was the boss's dictum, when the obstructing string of empties was safely passed. "We take it slow and sure from this on, with our fireman to flag us around the curves and through the cuts. This was only the first section of the train that left Horse Creek at eight o'clock—the section that was broken down at Siding Twelve. We're due to pick up the second section any where between here and the end-of-track."

"Slow it is," said Hector. "I'm no hog, if I do take a little swill now and then; I know when I've got enough."

This was at ten-forty, while the night was still young. And for seven other hours the one-car special inched its way cautiously toward the goal, with Ford scanning every mile of the hazardous way as it swung into the beam of the headlight arc, with Hector's left hand stiffening on the brake-cock, and with a weary fireman dropping from his gangway at every curve approach to flag for safety.

It was not until three o'clock in the morning that they met and passed the second section of empties, and the dawn of a new day was fully coming when the shacks and storehouses of the MacMorroggs' headquarters at the mouth of Horse Creek came in sight. Ford got down from his seat on the fireman's side and stretched himself as one relaxing after a mighty strain.

"That's the end of it for a little while, Billy," he said addressing the big engineer as a man and a brother. "Crawl in on the first siding you come to, and go hunt you a bed. I don't think the president will be perniciously active today—after such a night as we've had."

But in this, as in other instances when Mr. Colbrith's activities had figured as a factor, he reckoned without his host.

(Continued next week.)



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**SEED OATS FIND READY BUYERS** when advertised on this page. They sell for cash in hand, for your price, when you tell here what you have. The cost is low. See top of this page.

**FEED CORN**—HAYNES' IMPROVED Boone County White, pure bred, tipped, hand shelled, fanned, graded, hand picked, highest yielding strain. Two bushels or more \$1.40 per bushel. Catalogue free. J. F. Haynes, Farmer Seed Corn Grower, Grantville, Kan.

**PURE BOONE CO. WHITE SEED CORN.** Raised on the best Kaw Valley land; tipped, shelled and graded. My corn is extra fine in quality and I will guarantee it. If not satisfied will return your money. Price, shelled, \$1.65 per bu.; ear, \$2. Reference: Shawnee State Bank. J. W. Cochran, Silver Lake, Kan.

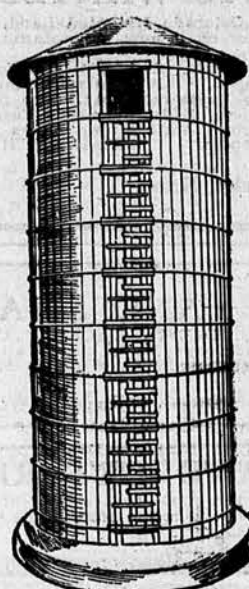
## HORSES AND MULES.

**REGISTERED SHETLAND PONIES FOR** sale. The pure Shetland pony is the child's pony. Correspondence solicited. N. E. Stucker, Ottawa, Kan.

**STANDARD BRED AND AMERICAN** bred Coach stallions for sale; all registered and speed blood of the best breeding. Prices right. E. R. Dorsey & Sons, Girard, Kan.

**FOR SALE**—3-PERCHERON STALLIONS registered. George Bevan, Scranton, Kan.

# Kansas Hinge-Door SILO



**SAVES ITS COST EACH YEAR.**  
It will enable you to keep three cows where you now keep one. It will reduce the cost of producing beef, milk, mutton and eggs. It will build up your soil and increase the value of your land. It will make one acre of corn worth two. It will save you much time and labor.

## IS BUILT TO LAST.

Clear Oregon Fir, fully seasoned, is used throughout. Government tests have proven that it stands moisture and has a low de- gree of shrinkage and expansion.

## POWERFUL FRAME AND LADDER.

A high quality silo must be built to stand the storms and winds that will come upon it. That is why we use a strong steel frame—the strongest steel frame we can build. The Ladder is made of malleable iron and is perfect in strength and convenience—will bear the weight of five men—steps 15 inches apart from top to bottom, with 7-inch clear-ance.

## CONTINUOUS HINGE DOORS.

The HINGE-DOOR is patented. It stands alone as the one great improvement in silo construction. It at once places the KANSAS SILO in the front as the leader. The HINGE-DOORS are always in place, easily swinging into and out of position on their hinges and are not scattered about the farm as barrel covers, box covers or "stepping stones" across muddy places. They will not bind or freeze and you will never suffer the inconvenience of carrying them up and down the ladder on a cold, blustering morning, when the thermometer reads zero, and the wind blows 40 miles an hour.

## FULL LENGTH STAVES.

There are no "spliced" staves in the KANSAS HINGE-DOOR SILO. Full length staves only, regardless of height. "Spliced" joints or two-piece staves are apt to give much trouble by bulging and breaking. The Full-Length Stave Silo is far su- perior.

## HIGH QUALITY BUT NOT HIGH PRICE.

We could not build the KANSAS HINGE-DOOR SILO better. The highest qual- ity material is used throughout. It is equipped with every modern convenience, yet our price is but a trifle higher than the price asked for Yellow Pine Silos, which soon twist, warp and decay.

Write at once for prices, together with fully illustrated circulars, and proof that the Kansas is the cheapest Silo you can buy.

# Continental Creamery Co.

Box 211, Topeka, Kansas

**FOR SALE OR EXCHANGE**—GOOD IM- ported German Coach stallion; guaranteed getter; priced right; want other stock. Ad- dress J. G. Smith, Owner, Hamilton, Kan.

## CATTLE.

**POLLED JERSEYS**—CHAS. S. HAT- field, Springfield, Ohio.

**A JERSEY BULL CALF, ELIGIBLE TO** register. Price \$25. Harry Schmidt, R. 2, Tescott, Kan.

**FOR SALE**—D. S. POLLED DURHAM bulls of different ages and good individ- uals. C. M. Albright, Overbrook, Kan.

**FOR SALE**—BLACK JACK 8 YEARS old; 16 hands high; will sell cheap if sold in 30 days. C. H. McCormick, Zeandale, Kan.

**WILL EXCHANGE FOR HEAVY DRAFT** stallion, 130 acres of land 5 miles from Groom, Gray county, Texas; smooth and level; 100 acres broke and fenced. Price \$25 per acre. Dr. Roach, V. S., Anthony, Kan.

**HOLSTEIN HEIFERS, SPECIAL PRICE** on 20 head 2-year-old bred heifers for next ten days. These heifers are practically full blood, well marked, bred to registered bulls, and will commence to freshen inside 60 days. One now fresh, giving nearly six gal- lens daily. Ira B. Romig, Sta. B., Topeka, Kan.

## TYPEWRITERS.

**REMINGTON TYPEWRITER CHEAP.** Perfect condition. Could ship on approval. Frank K. Payne, Route 5, Rosedale, Kan.

## MISCELLANEOUS.

**EXCHANGES, QUICK SALES, LARGE** list. Address Room 1, Continental Bldg., Omaha, Neb.

**ROSE COMB RHODE ISLAND RED** cockerels \$1 each. Order early. Mrs. J. S. Sourk, R. 2, Goff, Kan.

**"CONCRETE ON THE FARM"**—AN IL- lustrated book telling farmers how to do their own cement work successfully. Send 25c to W. H. Baker, Wadsworth, Ohio.

## The Difference.

It seems to be impossible for some people to see the difference between booming real estate and farming. We are constantly told that such and such a section is "enjoying unprece- dented prosperity," that "farming is on the boom," or that "land is rap- idly changing hands at high prices." The fact is that these are not always symptoms of agricultural prosperity; they may be the precursors of agricul- tural decline. Figures show conclu- sively that in those western states where "agriculture has been enjoying an era of unprecedented prosperity"—more particularly in Missouri and Iowa, where prosperity has been es-

pecially obtrusive—the farming pop- ulation has distinctly diminished in number. Apparently the farmers in those states have grown rich and re- tired to the cities. No one comes for- ward to fill the ranks. New settlers in search of opportunities wisely avoid these areas of "unprecedented agricultural prosperity," preferring to go to some section where there is less "prosperity" and more farming. The most surprising part of the whole farce is that Alberta and Texas are now energetically engaged in working up new land booms. It is like juve- nile diseases, whooping cough and measles. Every new country has to go through its "era of unprecedented prosperity."—F. M. G.

Blanks have been sent out from the extension department of the Kansas State Agricultural College asking the farmers to report their proposed fruit planting for next spring. Most farm- ers desire to have a small orchard but few are familiar with the many varieties of trees. Too many of them buy their trees from traveling agents who invariably try to sell them stock on which they happen to be "long" at the time. If these agents were ex- perts in horticulture, if they knew anything about the proper soil and other conditions for the trees they sell, or if they were responsible in- stead of being transients, the farmers would not be victimized so often with worthless stock. The college is eager to advise the farmers in their tree planting if the necessary data is sent to the extension department on the blanks supplied. The college will fur- nish plans and suggestions for or- chards free. If a visit is desired, an expert will be sent upon application and the payment of the actual trav- eling expenses. If applications for these services are made promptly one expert can travel over a circuit and be constantly busy. A \$7 trip may often be worth many hundred dollars to an orchardist.

An incubator run in a room heated by a base burner or a furnace or a radiator, needs moisture from time to time because, as a rule, the air in the room is a good deal drier than is the air outside of the house.



# BARGAINS IN LANDS

## LIVE REAL ESTATE AGENTS WANTED

I want the help of some "live wires" to sell some Colorado Irrigated Land. This land is within 150 miles of the Kansas line. It has water on it now, an unfailing supply for every need. The land is exceptionally good.

This is one of the best land propositions now open for sale. It is a straightforward project—one of the most highly meritorious ever developed. All available land will be sold. It is desired to sell all that is for sale by March, 1919. The price is right—so are the terms of sale. Liberal cash commissions paid; literature furnished free. Also conveyance to and from the land from railroad station two miles away. Besides, this is being widely advertised in western papers. I MEAN BUSINESS. WRITE ME TODAY FOR FULL DETAILS.

R. L. GARVER, Box M2, Topeka, Kans.

## TWO EASTERN KANSAS LAND SNAPS

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

BALDWIN & CATE, Manhattan, Kansas.

## COME TO FORD COUNTY AND GET RICH

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

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

## EASTERN KANSAS GRAIN AND STOCK FARM.

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

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

## 1120 ACRE COMBINATION RANCH.

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

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

## YOU'LL LIKE LINN COUNTY, KAN.

We have abundant coal, wood, natural gas and good water. The land raises magnificent crops of alfalfa, timothy, clover, bluegrass, oats, corn and wheat, R. F. D. and phone at your door. Price \$20 to \$30 per acre. List free. A. E. ROOT, Pleasanton, Kan.

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

Box 114, Minneapolis, Kansas.

## BUY OF OWNER—SAVE COMMISSION.

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

LOCK BOX 807, Fredonia, Kansas.

IF YOU MEAN BUSINESS and have real estate and merchandise of any kind for sale and exchange, and are willing to pay a commission should I make you a deal, write me at once of what you have and desire. I have several very attractive propositions to offer you for a home or investment; am doing a general exchange business. Carl G. Anderson, Athol, Smith Co., Kansas.

## SELLING A MONEY-MAKER.

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

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

## READ THIS BARGAIN

160, Anderson county, Kansas, joining small town, 120 cult., 30 timothy and clover, 7 room house, barn, etc. Price \$3,000. 160, 2 1/2 miles of Welda, Kan.; 60 cult., balance meadow; all tillable; no buildings, \$5600.

SPOHN BROS., Garnett, Kansas.

MARSHALL CO., KANSAS, LAND—480 acres, 2 miles from town, 160 acres under plow, 70 acres in alfalfa, balance good limestone subsoil pasture; 9 room house, 10 horse barn, stone cattle barn 30x140, some timber, and elegant spring. No better stock farm in the county; good orchard. \$55 per acre. Terms to suit purchaser. E. F. Dewey, Blue Rapids, Kan.

## LIVE AGENT WANTED

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

FRIZELL & ELY, Larned, Kansas.

ANDERSON COUNTY—100 acres, 60 acres in cultivation, balance pasture and meadow, fine soil, no rock. A new 3-room 2-story house, cement cellar and walks. Good barn and other improvements; half mile to R. R. town. \$65 per acre. A snap. Write for full description.

GEORGE W. ILEK & SON, Garnett, Kan.

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

COME to Butler Co., Kan., for a home, 40 to 720 a., prices right. Benton Land Co., Benton, Kan.

SOME splendid bargains in Famous San Luis Valley. Chas. Land Co., Lathrop, Kan.

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

FOR SALE—General merchandise, small town; excellent opportunity for live man. Address State Bank of Cummings, Cummings, Kan.

160 ACRES level second bottom, 4 miles from county seat, 100 acres under plow, 15 acres alfalfa, running water fed by spring, 5 room house, barn for 8 horses, large hay shed and other good improvements; good bearing orchard. Price \$55 per acre; easy terms. Joseph B. Ryan, Abilene, 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 price, address the

SECRETARY OF THE COMMERCIAL CLUB, Topeka, Kansas.

## FOR SALE

1,700 acres of my 4,100 acre ranch in Kearney county, Kansas, on the Arkansas River and Santa Fe R. R.; 700 acres alfalfa land, 60 acres in alfalfa; all fenced with three and four wires; 5 room frame house stone basement; barn 25x50 feet, part stone basement; stock sheds with iron roof, all well built and 300 yards south of Sutton Flag Station; wells at house, barn and in pasture. Reason for selling: Too big for my foreman to look after. John Shinkle will show place. Price \$20 per acre net to me.

H. H. SMALLEY, Springfield, Mo.

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

## BOURBON COUNTY

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

GEORGE N. BAINUM, Fort Scott, Kansas.

## \$15 NEAR GULF COAST REGION

On the Kansas City Southern R. R. at Pickering, Vernon Parish, La. Lands that produce big crops. A natural stock, dairy, and poultry country. Forages grown even in winter. Soil especially adapted to early truck, fruits, and great variety of crops. Good markets. Farm buildings not costly; lumber plentiful. High altitude, 50 inches annual rainfall, perfect drainage, pure water, invigorating and healthy climate. Write for free booklet.

J. D. LABRIE, General Land Agent, 568 Keith & Perry Bldg., Kansas City, Mo.

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

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

LEAVENWORTH county farms. Send for list. J. C. Lanning & Co., Tonganoxie, Kan.

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

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

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

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

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

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

## EASTERN KANSAS.

160 joining a live town, fair buildings; all can be farmed. Only \$75 per acre if sold Feb. 10. Richmond Land Co., Richmond, Ks.

## NESS COUNTY, KANSAS.

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

J. G. COLLINS, Ness City, Kansas.

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

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

## JOHN W. BAUGHMAN

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

## PLAINS TOWN LOTS

## A FINE FARM HOME.

Consisting of 160 acres, 60 acres in alfalfa, 65 acres in natural pasture, balance in a high state of cultivation, all fenced and cross fenced, good orchard, all kinds of fruit; has never failing running water and fine shade; large 10 room residence heat by steam, 2 large bath rooms, porcelain bath tubs, wash bowls and toilets, hot water and cold water and fair water piped to all parts of the house with sanitary sewer; water pumped by gasoline engine to all parts of the residence and buildings to wherever it is needed, and lighted with acetylene light plant; large hay barn and cattle barn, horse barn and hay mow, granaries and corn crib, large implement shed and a row of fine box stalls, large open cattle shed and hog house combined; buildings all nearly new and in good repair; located near a good railroad town in Sedgewick county and twenty miles from Wichita. Price \$17,500. Terms.

EDWIN TAYLOR REALTY CO., 107 S. Main St., Wichita, Kansas.

## CORN!

Will make 65 bu. to the acre on every acre of this 160 acres of rich, black, limestone soil. No rocks. Big, fine house and barn, beautiful location, 1 1/2 miles of town. Never failing stock water. No better farm in Kansas. \$60 per acre.

B. H. DUNBAR, Tyro, Kansas.

## A HOME AND MONEY MAKER.

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

BROWN, GRANT & WALTER, Kingman, Kansas.

## CHOICE FARM BARGAINS

I want some straight buyers for a few choice 80, 120, 160 and 320 acre farms in Central and Eastern Kansas. I have some good combination stock farms and ranches that are good bargains. Write me describing fully what you want. Have some large places to trade for smaller.

J. M. McCOWN,

516 Commercial St., Emporia, Kansas.

## FRANKLIN COUNTY KANSAS

64 a. farm, 1 1/2 miles from Ottawa, good 5 room house, good barn, outbuildings and orchard; all tillable; good soil; sacrifice for quick sale. Price \$75 per acre.

H. H. COWAN REALTY CO., OTTAWA, KANSAS.

## TEXAS LAND

## A FORTUNE IN 40 ACRES

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

## THE HEATH COMPANY

GENERAL AGENTS,

109 WEST SEVENTH ST., TOPEKA, KAN.

When writing advertisers please mention Kansas Farmer.

## OKLAHOMA LAND

## GET A HOME.

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

BATTEN REALTY CO., Medford, Oklahoma.

## MISSOURI LAND

IMPROVED corn, clover and bluegrass farms 48 miles south Kansas City, \$50 to \$75 per acre. Jot M. Wilson & Son, Harrisonville, Mo.

## Virginia Farms and Homes

FREE CATALOGUE OF SPLENDID BARGAINS.

R. B. CHAFFIN & CO., Inc., Richmond, Va.

## FREE TO FARMERS

By special arrangement Rakekin's big 1918 seed catalogue, with a sample of "Diamond Joe's Big White" seed corn that made 135 bushels per acre, will be mailed free to every reader of this paper who are interested in the crops they grow. This booklet tells how to make the farm and garden pay. It's worth dollars to all who plant or sow. Write for it and mention this paper. The address is KATEKIN'S SEED HOUSE, Shenandoah, Iowa.

## The Farmer's Son's Great Opportunity

Why wait for the old farm to become your inheritance? Begin now to prepare for your future prosperity and independence. A great opportunity awaits you in Manitoba, Saskatchewan or Alberta, where you can own a Free Homestead or buy land at reasonable prices.

Now's the Time—not a year from now, when land will be higher. The profits accrue from the abundant crops of Wheat, Oats and Barley, and the value of the land. Many farmers have paid for their land out of the proceeds of one crop. Free Homesteads of 160 acres and pre-emption of 160 acres at \$3.00 an acre. Splendid climate, good schools, excellent railway facilities, low freight rates, wood, water and lumber easily obtained.

For pamphlet "Last Best West," particulars as to locations and low settlers' rates, apply to J. S. Crawford, 125 West 9th Street, Kansas City, Mo.

## COLORADO LAND

KIOWA COUNTY, COLORADO, corn, wheat and alfalfa lands \$8 to \$15. Homestead relinquishments \$25 up. Pooled and copy of the Homestead Laws sent free. A few 160-acre homestead tracts under prospective irrigation yet. THE WESTERN REALTY CO., Engle, Colo.

We have been receiving a nice lot of inquiries mentioning Kansas Farmer. We are having a good trade in our bred gilts and still have some fine ones for sale. Enclosed copy for a change of advertisement, as we have no bears of serviceable age on hand. —P. L. Ware & Son, Fairview Poland, China, Paola, Kan.



# THE BEST FARMS IN KANSAS

HERE ARE OUR LEADERS! TERMS ON ALL THESE.

## FOR SALE 10 GOOD FARMS IN LABETTE COUNTY KANSAS

152 acres, all very dark loam or black soil, lies level with slope enough to drain, five room house and large barn, family orchard, 3/4 mile to railway station and stock yards, 3 1/2 miles to this city, in fine neighborhood, adjoining farm just sold for \$68 an acre. This land is better, improvements not so good, but our biggest snap. \$45 per acre.

160 acres, lays fine, every foot good tillable ground, 80 acres under plow, 10 prairie meadow, 70 acres fine pasture, in which is never failing spring, good five room house, barn 30x30, corn crib 8x52, chicken house, hog house, cattle shed, nice orchard, 1 mile to school. Price only \$50 per acre.

160 acres, 4 miles from Mound Valley, 57 acres under plow, 25 acres timothy and clover, 60 acres pasture, abundance of water furnished by creek and wells, good new 4 room house, barn 24x50, with other necessary outbuildings. Natural gas for fuel and lights. Price \$40 per acre.

160 acres finely improved, three miles from this city, 1/2 mile to school, good ten room house, barn 36x40, with other necessary buildings, natural gas for fuel and light. Farm lies practically level with good natural drainage, 60 acres clover and timothy, 30 acres pasture, balance cultivation. Price \$60 per acre.

240 acres finely improved, 1 1/2 miles from county high school, lays nice with good drainage, good two story six room house, barn 40x60, nice shade, well fenced and plenty of water. Price \$55 per acre.

160 acres, 2 1/2 miles from town, lays fine, good dark loam and black soil, 130 acres in cultivation, 8 acres prairie meadow, balance pasture, good six room house, plenty of good water, well located. A snap. \$35 per acre.

100 acres, five miles out, 90 acres in cultivation, good soil, four room house, some orchard. A snap at \$35 per acre and will carry \$2,000.

160 acres 2 miles from city, fine valley land, lays nice, all but four acres tillable, 6 acres alfalfa, 20 acres hog tight, about 40 acres timothy and clover, good six room house with cellar and gas for fuel, abundance water, across road to school. Price \$55 per acre.

273 acres, extra good, this farm is in the S. E. 1/4 of one section and 112 acres of bottom land just across the road, 30 acres alfalfa, all the balance out about 5 acres in tame grass and being used for pasture or hay, improvements are extra good, six room house, new barn 60x60 with mow room for 100 tons of hay, cement floor in cattle apartment, windmill and stock scales, never failing supply of water, school 1/2 mile, good town 2 miles. Price \$60 per acre.

158 acres, dandy farm in every way, 8 room house, 36x48 barn, well fenced, 95 acres under plow, 18 acres prairie meadow, 44 acres pasture, three miles to trading point, 10 miles to Coffeyville, a fine home and a snap for somebody at \$50 an acre.

WRITE US—We grow alfalfa, clover, corn, wheat, oats, fruit, anything.

DONAHUE & WALLINGFORD

Mound Valley, Kansas

## SEED POTATOES, SEED CORN OATS AND ONION SETS

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

### FORCED SALE TO SETTLE ESTATE

160 acre improved farm, Johnson Co., Kansas, 25 miles from Kansas City, 3 miles from Bucyrus, 3 1/2 miles from Spring Hill, all good, smooth and tillable; fine corn, wheat and tame grass land; good residence and outbuildings; orchard and grove facing south; one-half mile to school; on main road; R. F. D. and phone; well watered. Price \$100 per acre. \$4000 cash, balance can be left in farm at 5 per cent annual interest; \$4000 for 4 years; \$8000 10 to 15 years. Must be sold before March 1.  
U. S. REALTY CO., Spring Hill, Kansas.

### KANSAS LAND

#### CAN YOU BEAT THIS?

120 acres, 3 miles to town, 8 miles from Parsons, new 5-room house, new barn, land says just rolling enough to drain, fenced with hog wire on three sides, nearly all timothy and clover; some native pasture. This is a bargain at 45 per acre.

A. P. ROSA,  
Galesburg, Neosho County, Kansas.

McPHERSON CO.—160 a. farm for sale to settle estate; 120 a. in cult., 6 rm. house, barn 36x40, room for 2000 bu. grain, 50 tons hay, chicken house, cellar, windmill, good well, etc. Price \$10,500; \$3,700 incumbrance.  
BREMYER & BRUBAKER,  
McPherson, Kansas.

100—CHOICE DICKINSON AND CLAY CO. FARMS—100  
80 acres 3 miles from town, 70 a. under plow, alfalfa land, 20 pasture and meadow, 5 room house, good well, barn and other buildings, \$2000 cash; rest to suit; 25 a. wheat included. Write for list. J. J. Bishop, Wakefield, Kan.

NEW YORK FARMS.  
Well improved and for sale now at \$40 to \$60 per acre; grow biggest and best standard crops. For free select list ask McBurney, Stocking & Co., 279 Dearborn St., Chicago, Ill. No trades.

145 ACRES in high state of cultivation, fine improvements, good orchard, nice shade, on main road, R. F. D. and telephone, 1/4 mile from the city limits of Ottawa, the county seat of Franklin Co., Kan. Fine schools and churches. The best town of its size in eastern Kansas. Write for full description, or come at once. We have a large list of properties for sale and exchange.  
MANSFIELD & CO., Ottawa, Kan.

A BARGAIN. 160 acres in Wilson Co. Fine alfalfa, corn and wheat land. No better land in the county, \$2,500. Improvements, \$50 per acre. Land like it sells in other parts of state at \$100. Come and see this land and other tracts.  
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#### Farm Bargains Near Topeka

180 acres first class Kaw bottom land 1 mi. of station, every foot in cultivation, a snap, \$110 per acre.

320 acres highly improved upland, close in, \$75 per acre.

320 acres fairly well improved, close to station, \$60 per acre.

160 acres well improved, 4 mi. to town, \$60 per acre.

160 acres highly improved, fine location, \$100 per acre.

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GILLET & GILLET,  
104 W. Fifth St., Topeka, Kan.

## 80 ACRES

For \$5,000; \$2,000 cash; balance terms; well improved; two miles good town; not far from Topeka. This is a good one for the money; won't last long.

FOX-COOK AGENCY,  
104 West Eighth, Topeka, Kansas.

425 ACRES ATCHISON COUNTY, KANSAS.  
One mile good shipping point and school; well improved, all good, tillable land in high state cultivation; never been rented; one of the best stock farms in Northeastern Kansas. Price \$85; terms.  
DRURY & WHITE, Atchison, Kan.

### THE STRAY LIST

C. C. Stotler, County Clerk—Wabaunsee Co. TAKEN UP—One red steer, 1 year old, mottled face, about 4 feet high, appraised value \$30; also one red heifer, 1 year old, mottled face, about 4 feet high, appraised value \$22. Was taken up Jan. 8, 1911, by Redemski Bros., Alma, Kan.

E. L. Barbour, County Clerk—Elk County. TAKEN UP—By M. J. Cronan, Elk Falls, Kan., one chestnut sorrel mare, age 6 years; 5 feet high; Y on left jaw; scar on front foot; also wire mark on left front leg.

TOO LATE TO CLASSIFY.

### ALFALFA SHORT HORNS LEAF

Young stock for sale. Also Silver Laced Wyandotte eggs for sale.  
JOHN REGIER, R. 1, Whitewater, Kansas.

#### DUROC JERSEYS.

Bred sow sale Feb. 22. Ten tried sows, 40 spring gilts; all pure bred and the big, smooth kind.  
JASPER AULDRIDGE & SON,  
Patterson, Missouri.

WHITE ORPINGTON COCKERELS \$3; extra utility stock; eggs \$3 per 15. G. W. Melton, Yates Center, Kan.

FOR 25 YEARS A BREEDER OF Banded Plymouth Rocks exclusively; for show, table use and egg production. Large size cockerels \$3 each; \$2 for 15 eggs. G. E. Dyksterhuis, Holly, Colo.

#### Fifteen Cows in One.

If a cow giving 175 pounds of butter in a year is worth \$60, how much is a cow worth that gives 350 pounds of butter in a year? Suppose that butter will average 25 cents the year around (and it will do better) and that the feed is worth \$40 for the year. The first cow would give a return of \$43.75, less \$40 for feed, which leaves a profit of \$3.75, counting that the milk, calf and manure pay for the labor. The second cow would give a return of \$87.50 for butter, and would give at least 4,000 pounds more of milk which at 20 cents per hundred pounds (and it is worth more for feed) would bring \$8. The calf from the good cow is also worth more, but let that go. The return would be \$95.50, less \$40 for feed, or a profit of \$55.50 on the same basis as the other cow made a profit of \$3.75. It would take practically fifteen of the 175-pound cows to make as much profit as the one 350-pound cow. \$3.75 is 6.2 per cent on \$60 and \$55.50 is 6.2 per cent on \$895.16. On the basis of percentage income, when the 175-pound cow is worth \$60, the 350-pound cow is worth \$955.16. The keeping of the cows should be looked at from the business standpoint. The poor cow is dear at any price, but the good cow is usually not rated at her real value.—W. C. Palmer.

READ THIS VERY CAREFULLY—IT MAY SAVE YOU MONEY AND A LOT OF COSTLY SEPARATOR EXPERIENCE.



## How to Choose a Cream Separator

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

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

It should produce heavy or thin cream as desired.

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

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

In addition to the above a cream separator should be simple in construction, durable, easy to operate and easy to clean.

The DE LAVAL meets all these requirements.

We don't know of any other separator that does. If any one representing any other separator comes to you with a lot of claims make them prove up to this test. Your creameryman or your state experiment station will tell you that it's a fair test.

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

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Cedar Rapids, Importing Farm,  
Cedar Rapids, Iowa.  
Register your jacks in the American Jack Register. Write for blanks.



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

**J. F. COOK & CO.,**  
John C. Kerr, Manager,  
HUTCHINSON, KANSAS.



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

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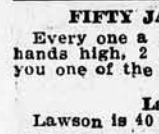
One of the largest number of large bone and smooth jacks in the West; 14 to over 16 hands high; prices reasonable. 40 miles west of K. C. on U. P. and Santa Fe Rys.

**AL. E. SMITH,**  
Box A. Lawrence, Kan.



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

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



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

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Lawson is 40 miles northeast of K. C.

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To close out breeding stock, will offer 2 registered Percheron stallions, 1 registered saddle stallion and 5 black mammoth jacks of Mo. and Kentucky blood, from 2 to 6 years old; from 15 to 15.3; standard; registered. **J. E. CLARY, Cameron, Mo.**



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

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

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



**REGISTERED JACKS AT PRIVATE SALE.**  
I make a specialty of the large, heavy boned, thick bodied, well bred kind; 35 to select from. Write for catalog.

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Rea, Missouri.

**S. B. UTZ, ST. JOSEPH, MO.**  
Breeder of high class jacks and jennets. Six serviceable jacks, some 2-year-olds, jack colts and jennets for sale; all good colors. Residence phone, Bell South 762-4 rings; office, both phones south 126.

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

## PARKER PARRISH &amp; CO.

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

## 80 Angus Bulls

**OF SERVICEABLE AGE.**  
Herd Headers and Range Bulls. Many of them by Champion Ito.  
**SUTTON FARM, Lawrence, Kan.**  
500 HEAD IN HERD.

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**BELVEDERE X2712-195058**  
Son of the \$1,500 Grand Victor X1633. 150365 heads my herd of Double Standard Polled Durhams. A few extra good, blocky, thick-fleshed young bulls for sale. Inspection invited. Farm adjoins town.

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

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Imported and American Bred Jerseys.  
Carthage, Mo.  
**PHIL HANNUM, JR., Owner.**  
I am offering a yearling bull ready for service, out of a five-gallon cow, bred along the same lines as the cow that won at the World's Fair, at a very reasonable price. Write today if you are in need, as I price stock at figures that sell them.

Grade Jerseys bought on commission.

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

**JOHNSON & NORDSTROM,**  
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## TO MAKE ROOM FOR WINTER I WILL SELL

**20 HEAD REGISTERED COWS**  
Forty head to select from; also a few bull calves.

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## FINE JERSEYS FOR SALE.

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

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## Tomson Shorthorns

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

**TOMSON BROS., Dover, Kansas.**

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

## Humboldt National Stock Farm

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

**H. F. PELPHREY & SON,**  
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## SHORTHORNS

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

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

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## Pearl Shorthorns

**40 BULLS,** 6 to 20 months old, straight Scotch and Scotch Topped—mostly red. Can spare a few females, same breeding.

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## 10 SCOTCH BULLS

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

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

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

**ISAAC NOVINGER & SONS**  
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## EVERGREEN HOME FARM.

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

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## Shorthorn Cows and Heifers

Also a few Scotch and Scotch Topped bulls. Reliable stock for sale at all times. Public sale February 21.

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## RED POLLED CATTLE

**RED POLLED CATTLE.**  
A few choice young bulls for sale; also a few cows and heifers.

**C. E. FOSTER, Eldorado, Kansas.**

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

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**HEREFORD BULLS AND FEMALES.**  
Two choice Hereford bulls 10 to 18 months old sired by Enterprise (12614), dam Prairie Queen (117345) by Counsellor (71682); eight choice heifers, coming two and three years old, same line breeding; prices reasonable; all in good condition. Write or come and see me.

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

**TOM WALLACE, Barnes, Kansas.**

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**HOLSTEINS FOR SALE.**  
Four very choice young bulls and a few cows and heifers for sale, mostly sired by Prince Ormsby, no owned by Nebraska Agricultural College. Him dams on both sides for four generations average 20 lbs.; he has 30-lb. sisters.

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**HOLSTEIN CATTLE—\$1425**  
For 8 Holstein-Friesians cows and choice of 18 bulls, all registered; all good; some A. R. O.; have to make room for young stuff. Come and see them.

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**M. E. MOORE & CO., Cameron, Mo.**

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



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## GUERNSEY CATTLE.

**GUERNSEY CATTLE FOR SALE**—Young bulls by Eminence of Birchwood, 668 to 714 pound fat records. Stock guaranteed against tuberculosis for 6 months after sale. Largest herd in Kansas. Farm near Roxbury, Kan., and visitors welcome except Sundays.

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

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A few choice young bulls sired by Imp. Campflower 3d of Stepford 30938 (8407) and Meadow Lawn Medallist 28750.

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Oketo, Kan., will make pure bred stock or farm sales anywhere in Kansas or adjoining states; 15 years' experience; best of references furnished. Write or phone for dates.

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Live Stock Auctioneer, breeder of Poland China hogs, Light Brahmas, R. I. Reds, Black Langshans, Buff Orpingtons, Golden and Columbian Wyandotte chickens.

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

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Fine Stock Auctioneer.

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

**"Get Zaun; He Knows How."**

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I sell for many of the most successful breeders.

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Pedigreed Live Stock  
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**POLAND CHINAS****POLAND CHINAS****POLAND CHINAS****POLAND CHINAS****DESIGNER. SEARCHLIGHT**

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

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

**SHORTHORNS AND POLAND CHINAS.**

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

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

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

**SPRING BOARS**

by Grand Chief. They will be priced right.

We still have a few extra good spring boars for immediate sale, sired by First Quality. Can also spare a few gilts, bred and open.

**YOUNG & KIMMERLING, Glasco, Kansas.**

**175 BIG TYPE POLAND CHINA PIGS.**

Both sexes, March and April farrow, sired by Bell Metal M. 54349 and Success 53551. Heavy boned and strong. Strictly big type. Reasonable prices.

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**200 LARGE TYPE POLAND CHINAS**

Herd headed by Big Hadley, Long John 2nd and John Ex. Young stock for sale at all times. A few choice Hadley boars.

**CHARLES Z. BAKER, Butler, Missouri.**

**KING DARKNESS No. 149999**

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

**F. J. MILLER, St. John, Kansas.**

**18 - BRED GILTS - 18**

For sale, bred to A. L. Hadley; \$25 to \$40. **A. L. ALBRIGIT, Waterville, Kansas.**

**HARTERS BIG KIND POLANDS**

Headed by Mogul's Monarch 45358 and Capt. Hutch 39068. Bred sow sale Feb. 16. 50 Bred Rock cockerels for sale.

**J. H. HARTER, Westmoreland, Kansas.**

**Big Type Poland China Gilts**

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

**J. B. WHIPPLE, Fall City, Neb.**

**Graner's Great Big Poland Chinas**

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

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HAVING concluded not to hold a public sale, I will offer 25 well bred, growthy gilts bred to the best and highest priced large-type young boars out this year; six tried 2-year-old sows bred to Grand Look 2d. This cross produced my best sellers in my fall sale. If you want the best that grows, come or write. Special prices on a number in one deal.

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

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

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**THE KIND OF OUR FOREFATHERS.** Home of the big-boned spotted Poland. The only registered herd of original spotted Poland Chinas on earth. Bred sow sale February 16, 1911. Ask for catalog.

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**THEY ARE PRICED RIGHT.**

Ten Poland China boars for sale at prices from \$20 to \$25, with good bone, backs and heads.

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

**ROSE LAWN POLAND CHINAS.**

King Darkness by Meddler 2d, assisted by Shortgrass Meddler by Meddler 2d head my herd of richly bred Poland China sows. A few spring gilts by On the Spot for sale.

**E. J. MANDERSCHIED, R. 3, St. John, Kan.**

**BROOD SOW SALE.**

Boars all sold at present except a few fall boars. Bred sow sale Feb. 15. Send for catalog early, as there will be some awful good gilts.

**R. J. PECKHAM, Pawnee City, Nebraska.**

**The Only Chance to Buy Gilts**

Bred to VOTER for March farrow will be at my Feb. 22 sale. Get catalog early. Choice fall boars at private treaty; bargain prices until Feb. 15.

**W. C. MILLIGAN, Clay Center, Kansas.**

**LARGE TYPE POLANDS.**

Toulon Prince 50559 heads herd. Bred gilts for sale; also some good August pigs, either sex. **L. E. KLEIN, Zeandale, Kan.**

**LAREDO HERD**

Poland Chinas, headed by Impudence Style 132378 and F. R.'s Meddler by Meddler for sale. 15 fall gilts bred for fall farrow and 9 other gilts.

**G. W. MCKAY, Laredo, Mo.**

**BIG TYPE POLAND CHINAS.** Gold Standard by Chief Gold Dust in service. Sows represent the most noted big-type strains. Choice lot of spring pigs.

**WALTER HILDWEIN, Fairview, Kansas.**

**FAIRVIEW POLAND CHINAS**

FOR SALE—25 select gilts, bred for April and May farrow; choice for \$30. Also 60 fall pigs at prices to move quickly.

**F. L. WARE & SON, Paola, Kansas.**

**SULLIVAN COUNTY HERD.**

Poland Chinas; 200 head in herd; best blood known to the breed. For sale, eight choice fall gilts; also eight Collie pups.

**FULLER BROS., Humphries, Missouri.**

**NINETY HEAD FALL PIGS FOR SALE.** Sired by the famous Hadley Boy No. 48069. Remember our bred sow sale Feb. 10, 1911, and send for catalog.

**GEO. M. HULL, R. 1, Garnett, Kansas.**

**Cronniger's Big Polands Lead**

The blood of the biggest and best. A few choice fall boars and gilts ready to ship. Bred sow sale February 23, 1911.

**HERMAN CRONNIGER & SONS, Bendana, Kansas.**

**HICKORY GROVE FARM,** the home of the big boned black and spotted Poland China hogs, the farmers' hog, and the kind that makes the most pork. Choice males for sale. Address **GEORGE & OLLIE TAYLOR, Cameron, Mo.**

**GEO. SMITH'S BIG POLANDS**—Headed by Mammoth Hadley, the best son of Big Hadley. Sows, daughters of King Do Do, Johnson's Chief, Gold Metal, First Quality, Chief Gold Dust. 5 litters by Grand Model by Grand Chief. 100 choice pigs doing well. **George W. Smith, Burchard, Neb.**

**EXPANSIVE 34723.**

The 1000-lb. boar assisted by Sampson Chief and Big Victor 2d head my herd of high class, big, smooth Poland Chinas. A few choice bred sows and gilts for sale. Write your wants now.

**H. B. WALTER, Effingham, Kansas.**

**12-VOTER HERD BOARS—12** A spring yearling by Voter and out of Queen Wonder; good individual; price \$75. 12 top spring boars by Voter, \$25 to \$40. 20 Voter gilts cheap if sold in bunches. Dams in herd represent best families.

**A. & P. SCHMITZ, Alma, Kansas.**

**SPRING MALES AND GILTS.**

Now is the time to buy your breeding stock while the best is yet unsold. My pigs are strong and thrifty; are well bred and have been fed with an eye to future usefulness. Write me now. Address

**C. H. TILLQUIST, Osborne, Kansas.**

**W. F. HOUX, JR.** Breeder of Shorthorn cattle and Poland China hogs. Cattle herd headed by King Challenger 312040, sire Whitehall King 222724, dam Lady Zenda 3d; grand sire, Whitehall Sultan 163573. Hog herd headed by Wonderlook 65255, sired by Grand Look No. 125703, dam No Wonder; Spotted Chief 56692, sired by Missouri Sunflower 49513, dam Queen Quality 11304. Watch for bred sow sale date in February. Address

**W. F. HOUX, JR., Hale, Missouri.**

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

**CLARENCE DEAN, R. 1, Weston, Missouri.**

**WALBRIDGE POLANDS****Quality**

**L. C. Walbridge, Russell, Kansas**

**DEER PARK STOCK FARM.**

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

**D. A. WOLFERSPERGER, Council Grove, Kansas.**

**POLAND CHINAS WITH SIZE.**

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

**GOLD METAL 49348**

By Bell Metal 40388 heads my herd of big type Poland. Breeding stock for sale at all times. Prices right.

**JOHN C. HALDERMAN, Barchard, Neb.**

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

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

**W. T. FITCH, Minneapolis, Kansas.**

**DUROCS RICH IN COL. BLOOD**

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

**CHAPIN & NORDSTROM, Green, Kansas.**

**SPRING BOARS AND GILTS.**

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

**SPRINGBANK DUROC JERSEYS.**

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

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

**W. H. WILLIAMSON, Raymond, Kansas.**

**R. & S. FARM**

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

**RINEHART & SON, Smith Center, Kansas.**

**WOODLAWN DUROC JERSEYS.**

Headed by Woodlawn Prince 53343. Sows of Ohio Chief, Orion, Topnotcher and other good families. Choice yearling gilts for sale, bred for March and April farrow. Also a few open gilts.

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

**DUROC FALL PIGS, EITHER SEX.**

Falls, not related, for sale reasonable. Bred sow sale January 24. Write at once for catalog.

**FRANK VRTISKE, Pawnee City, Neb.**

**HOTEL GREENWOOD HERD.**

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

**CHAS. STITH, Eureka, Kan.**

**CROW'S DUROC JERSEYS.**

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

**W. R. CROW, Hutchinson, Kansas.**

**CEDAR LAWN HERD.**

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

**F. M. BUCHHEIM, Leocompton, Kansas.**

**CHOICE DUROC BOARS FOR SALE.**

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

**O. A. TILLER, Pawnee City, Nebraska.**

**BRED SOW SALE MARCH 8.**

12 bred sows and 33 choice gilts to sell. Send for catalog.

**L. C. WOOLEN & SON, Breeders of Pure Bred Duroc Jersey Hogs, Stansberry, Mo.**

**Greenwood Herd Durocs**

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

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

**40-DUROC GILTS—40**

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

**J. F. STODDER, Burden, Cowley County, Kansas.**

**PRAIRIE VIEW HERD.**

Hamilton, Missouri. Breeder of Big Type Poland China Hogs and Buff Orpington chickens. Address **F. E. MULLER, R. 4, Hamilton, Missouri.**

**BIG POLAND CHINA HOGS.**

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

**STRYKER BROS.' HERD POLAND CHINAS.**

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

**ANDERSON HIGH CLASS DUROCS.**

Choice lot of fall pigs of the best of breeding for sale at very reasonable prices. For low prices on good stock, address **C. O. ANDERSON, Manhattan, Kansas.**

**JEWELL COUNTY HERD.**

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

**W. E. MONASMITH, Formosa, Kansas.**

**DUROC JERSEY BOARS**

A few good ones for quick sale by a good son of King of Cois 2d; also bred sows and gilts. Three choice Jersey bulls and few cows and heifers.

**S. S. SMITH, Clay Center, Kansas.**

**OHIO IMPROVED CHESTERS****MOSSE OF KANSAS**

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

**ARTHUR MOSSE, R. D. 5, Leavenworth, Kansas.**

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

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

**R. W. GAGE, R. D. 5, Garnett, Kansas.**

**BERKSHIRES****LARGE ENGLISH BERKSHIRES**

Breeding Stock for Sale. **H. U. McCURDY & CO., Hutchinson, Kansas.**

**BERKSHIRES—OVER 260 HEAD**

To select from. Choice boars and females of various ages. A nice lot of fall pigs priced reasonable. We guarantee satisfaction.

**LEON A. WAITE, Winfield, Kan.**

**HAMPSHIRE HOGS.**

All ages, both sexes, best strains, prize blood. Prices right.

**C. W. WEISENBAUM, Altamont, Kansas.**

**OHIO HERD OF MULE-FOOTED HOGS.**

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

**FIELD NOTES.**

Chapin & Nordstrom's Sale February 14. Duroc Jersey breeders of Kansas and adjoining states should remember that February 14 is the date set for the big bred sow sale to be made by Chapin & Nordstrom of Green, Kan. The sale is to be held at Clay Center under cover and will contain some of the greatest Durocs this enterprise has ever offered at public sale.

There will be 50 head sold, including 15 tried sows and the same number of fall yearlings. There will be 20 very choice spring gilts, the tops of the last spring's crop. Everything will be bred for March and April farrow to G. C.'s Kansas Col. and King's Col. by King of Cois 2d. G. C. Kansas Col. is by G. C.'s Col. and has proved himself to be one of the strongest breeding Col. boars ever owned in the West. He is a very uniform breeder and his get have wonderful quality. The young boar, King's Col. by King of Cois 2d, is out of a dam by W. L. A.'s Choice Goods; second dam by Proud Advance. Others are bred to G. C.'s Choice Goods by W. L. A.'s Choice Goods, dam by Chief's Col. Among the tried sows are some as good as were ever in the herd, daughters of Model Chief Again, King of Cois, King of Cois 2d, G. C.'s Col. W. L. A. Choice Goods and other noted sires. Not a bad one or poor producer in the lot. They are out of great dams, many of them purchased at long prices from the best eastern herds. The fall yearlings and spring gilts are out of such sows as we have mentioned and sired by King of Cois 2d, G. C.'s Col. and G. C.'s Kansas Col. Every sow in the sale will produce a line bred Col. litter, and there will not be a better chance this year to buy the kind that makes good. Write at once for catalog and plan to attend this sale.



# **Last Chance to Buy Daughters of Old King of Cols. 2nd** **Wednesday, March 1st, 1911, At Farm Adjoining Green** **King of Cols. 2d is Dead, This Will be About the** **Last Chance to Buy His Get** **50 HEAD 50**

7 tried sows—4 by King of Cols. 2d, 2 by Model Chief Again, 1 by Perfect, bred by S. E. Morton.  
 13 fall yearlings—6 sired by King of Cols. 2d, 5 by G. C.'s Col., 2 by King Wonder.  
**SPRING GILTS**—Are tops of my spring crop, daughters of F. E.'s Col., Elder's Wonder, King of Cols. 2nd, G. C.'s Col. and G. C.'s Kansas Col. Out of dams by King of Col. 2d, and other great sires.  
 Everything bred for spring farrow, tried sows to G. C.'s Col. and F. E.'s Col. Gilts bred to Elder's Wonder, F. E.'s Col. and G. C.'s Choice Goods by W. L. A.'s Choice Goods.

Don't lose sight of the fact that this is the original Col. herd of Kansas and contains more Col. blood backed up by greater individuality than any other herd in the west. Among the real attractions in this sale will be King's Daughter by King of Cols. 2d, pronounced by good judges to be the best Duroc sow in the state. I hesitate to sell her but need the money and many breeders need the sow. I am in the business to stay and want to see them sell at profitable prices. Catalogs ready now. Write for one, mentioning Kansas Farmer. Free entertainment and a square deal.

AUCTIONEER—JAS. T. McCULLOCH.

Jesse Johnson will represent this paper. Send him bids if you can't come.

**FRANK ELDER, Green, Clay Co., Kans.**

**Lincoln 7th Simpson**  
 By Lincoln 2d by Cherry Boy By Beau Gondolus by Beau Brummel  
**Dandy Andrew**  
 By the champion Dandy Rex

ARE THE SIRES OF THE

**65 HEAD 65**

20 Yearling and two-year-old bulls and 45 yearling, two and three-year-old cows—to be sold in our first public sale to be held at the Fair Grounds at

**Council Grove, Kansas**  
**Feb. 28, '11**

These are the tops of the season's crops for their ages and have been especially selected for this offering. The bulls comprise the best lot we ever raised—all big, strong, growthy bulls of superb breeding—suitable for herd bulls, for the breeder, farmer or ranchman, and are in excellent condition. The cows and heifers are a particularly choice, even lot and will please any breeder. They are in calf to Lincoln 7th, Simpson, Dandy Andrew, Beau Manderin 2d or Pistaqua Exchange—mostly for early spring calves. They are good size, have excellent heads and horns, and are really high class in every respect. You can judge our entire herd by this selection of young breeding cows. You will find them a valuable and useful lot of

**Richly Bred Cows**

in the very best breeding condition.

**Every Animal will be Sold**

We offer you the best we have—and you make the price. Write to-day for catalogue and pictures of our herd bulls. Address

**Jones Bros.**

**COUNCIL GROVE, KANS.**

AUCTIONEERS—EDMONSON, ZAUN, BRADY AND SPARKS.  
 Mention Kansas Farmer when writing.

## **ANNOUNCEMENT EXTRAORDINARY**

MY GREAT SALE OF MAMMOTH JACKS AND BRED JENNETS

To Be Held at My Sale Barns in LaPlata, Mo., Tuesday, March 7, 1911.



At this time I will offer 35 head from the famous Limestone Valley Jack Farm of L. A. Monsees & Sons, and 25 tops from the Cloverleaf Valley Jack Farm, making one of the greatest offerings ever put up by any breeder in America. The blood of the world famous Limestone Mammoth 298; of Superior Mammoth 124; of Orphan Boy 696, all world's champions, and sires of champions, runs through offering.

The never beaten Kentucky King, 12 times winner at Kentucky and Illinois Shows; the wonderfully good 3 year old Tennessee Mammoth, 15½ hands high, weight 1,200 pounds, with splendid bone, called as good a jack as ever came out of Tennessee, and other good ones, are attractions. Space forbids mention of other good jacks and jennets, but our splendidly illustrated catalogue, said to be one of the most beautiful jack catalogues ever printed, tells all about them. This beautiful catalogue, a work of art in itself, a book you will want to keep as a souvenir for years, is free to Kansas Farmer readers who are interested in jacks. Don't lay this paper away until you have written for it. Address G. C. ROAN, LaPlata, Missouri.

### **Field Notes.**

#### **Peckham's February 15 Sale.**

In this issue R. J. Peckham of Pawnee City, Neb., has an announcement calling attention to his big type Poland China bred sow sale to be held on the farm, five miles from town, on Wednesday, February 15. On this occasion Mr. Peckham will do what he always does, offer a bunch of hogs second to none in his state. He is cataloging about 45 head for this sale, 40 of which are early farrowed spring gilts and five tried sows and fall yearlings all bred for March and April farrow to the herd boars, O. K. Chief by O. K. Price, he by Price We Know, Look's Choice by Grand Look, he by Grand Look, and Hadley Goldust by Blue Valley Expansion and out of a dam by Big Hadley, her dam by Tecumseh Goldust. The gilts are very large, deep and roomy, just the kind to develop into great brood sows. Nearly all of them are by O. K. Chief and

Look's Choice and their dams are the old sows that have made the Peckham lands famous. There will be three out of litter of 13 farrowed by the great so Standard Queen, all good, and four out of the great sow, Nan Patterson, also a litter of 13. Included will be a pair of spring gilts out of the great sow, Tecumseh Goldust, and sired by Blain's Last Hadley, the best son of old Big Hadley. These gilts are litter mates to the boar that topped Mr. Peckham's fall sale at 80, going to Mr. W. T. Williams' good herd at Valley Farm, Kan. The tried sow division includes a good sow, Flora B. by Hadley Sampson. Her dam was Smooth Girl by old King Do, Susie L. 2d by John Thomas, he Hastings. Her dam, Susie L., is the foundation of one of the very best families in the herd. The dams of the offering are great old sows of the biggest breeding, you want size, quality, prolificacy and essentials, get catalog of this sale.

(Continued on page 36.)



# FRANK IAMS'

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

## "SIT UP AND TAKE NOTICE"

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

## 160--PERCHERONS AND BELGIANS--160



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

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

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

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

**ST. PAUL, NEBRASKA**

## REYSTEAD'S BIG TYPE Poland China Quality

### Bred Sow Sale

At Farm Southwest of Mankato, Kansas

**Tuesday, Feb. 21, 1911**

**35 HEAD OF HIGH BRED BIG TYPE SOWS AND GILTS :: 35**

They are sired by boars of the leading Big Type strains, Bell Metal, Colossus, the noted prize winning boar; Captain Hutch, O. K. Hutch and Patterson Perfection, a brace of as great Big Type boars as you can find. Read the catalogue, as it pedigrees them to royalty. These sows are from dams of the Big Type lines of breeding, sired by Bell Metal and What's Ex., two great Expansion boars; Tommy Wilkes and others. The offering consists of big spring yearlings, smooth as ribbons, glossy black coats, that have raised good litters, and twenty-five March and April gilts, the big, useful kind, out of big litters. The sows will be bred for early litters to my two big boars, O. K. Hutch and Commander 2d. Read his pedigree. It will surprise you. Write for catalogue. Send bids to Jesse Johnson of Kansas Farmer.

**A. R. REYSTEAD**  
MANKATO, KANSAS

## Richly Bred, Quick Maturing Utility Poland China Sows at Auction

In Pavilion, at Clay Center, Kansas

**Wednesday, Feb. 22**

**FORTY HEAD**

Comprising 8 tried sows, 26 spring gilts and 6 choice fall boars. Sows and gilts bred for spring farrow to Voter, Perfect Mischief and Big Victory.

**TRIED SOWS**—Are sows that have made good in our herd and are being sold not for any fault but to attract the best buyers. They have up-to-date pedigrees and are bred to richly bred boars. They include daughters of Phil. 2d by Philanthropist and Courtier.

**FALL AND SPRING GILTS**—Were sired by Perfect Mischief by Mischief Maker, Voter, Senator and other good sires. It has been our aim to breed good hogs regardless of fads and fashions in pedigree. The good ones suit us no difference what the breeding. It is our aim to breed the big medium, quick maturing kind. How well we are succeeding you can judge sale day.

Free entertainment for breeders from a distance. Catalogs ready for distribution February 1. Write for one now. Bids may be sent to Jesse Johnson in my care at Clay Center.

**W. C. MILLIGAN**

**CLAY CENTER, KANSAS**

AUCTIONEER—JAS. T. McCULLOCH.



## Percherons and Belgians

Our barns are full of the best Stallions and Mares we could buy in the old country; from 1 to 6 years old with plenty of size and quality. We pay no auctioneers or commissioners, but sell direct at prices that will interest you. A 60 per cent guarantee with every horse. Can show between trains.

**Skoog, Reed & De Cow**

Holdrege, Nebraska



## ROBISON'S PERCHERONS

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

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

## HOMWOOD STOCK FARM

IMPORTERS AND BREEDERS OF

**Percheron Belgian Shire Stallions and Mares**

NOTICE TO PROSPECTIVE BUYERS:

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

Barns 2 Blocks North U. P. Depot. **S. METZ & SONS ABILENE, KANSAS**





## WE WANT YOU to COME to LINCOLN AND VISIT OUR BIG BARN

### WE WILL NOT DISAPPOINT YOU

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

### Percherons, Shires and Belgians Europe Could Produce



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

We stand back of our horses.

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

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

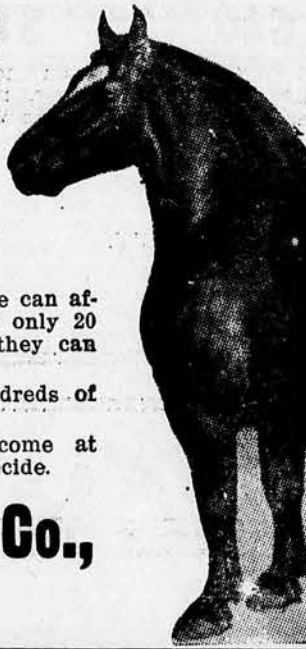
We ship horses from Europe in such large numbers that we can afford to sell them at a small profit, in fact dealers who handle only 20 to 30 stallions and mares can buy them cheaper of us than they can import them.

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

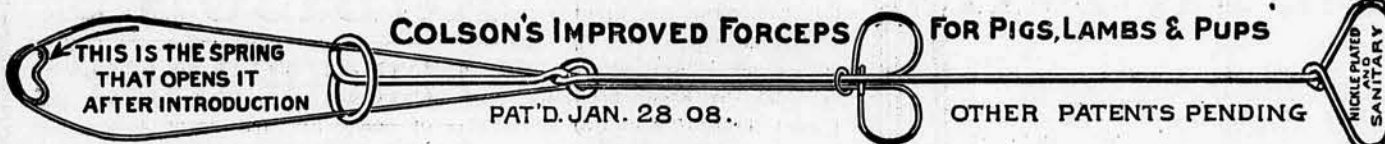
Wire us that you will start in the morning. If you can't come at once, send for our big illustrated catalog. It will help you to decide.

## Watson, Woods Bros. & Kelly Co.,

Dept. 1, LINCOLN, NEB.



# Save Your Pigs Farrowing Season is Here



You may not need one of these instruments more than once or twice in a season but when you do need it you need it MIGHTY BAD. It may mean the saving of a valuable sow and her litter of pigs. What would that be worth? Can you afford to take chances when you can get one of these reliable instruments free?

Colson's Improved Forceps are made of specially tempered steel spring wire heavily nickel plated. Cannot corrode or rust. Size opened 26 inches long. Closed 11 inches. Weight 4 ounces. Simplest instrument of the kind ever made. Any one can use it intelligently.

Just to be brief, we would not offer our readers this article unless we honestly believed it to be the very best. We have letters from several reliable parties who have used them and who recommend them highly.

## We Only Have a Few

But while they last we will send one FREE, express paid, to any old or new subscriber to KANSAS FARMER sending us one dollar and fifty cents for a two years' new or renewal subscription to KANSAS FARMER.

Do not wait until your sows begin to farrow. Send your order today.

KANSAS FARMER, Topeka, Kansas

### FIELD NOTES.

On February 15, H. L. Faulkner of Jamesport, Mo., the famous breeder of the big-boned, spotted Poland China hogs, will hold his annual spring sale. Mr. Faulkner enjoys the distinction of being the only breeder making a specialty of the big-boned, spotted kind, and in evidence of their popularity it can be said that Mr. Faulkner has built up a very large shipping business and is shipping the big-boned spotted hogs to almost every state in the Union, regardless of distance, and that his sales this year surpassed by far that of any previous year. This year Mr. Faulkner will sell 50 sows, a splendid lot of individuals, bred to his famous herd boars, Budweiser, Brandywine and Billy Sunday, a trio of the greatest boars in use today. A majority of the sows to be sold at this sale are early spring gilts of his own breeding. They are a fine, growthy lot, and if you want the big-boned, quick maturing kind, that are noted for their prolific qualities, send Mr. Faulkner your name and address for a catalog and attend the sale.

### Roan's Big Jack Sale.

G. C. Roan of LaPlata, Mo., will have one of the most attractive offerings of mammoth jacks and bred jennets in his March 7 sale that will be made this year. Thirty-five head of these will be from the famous herd of L. M. Monsees & Sons of the Lime-stone Valley Jack Farm at Smithton, Mo., and 25 head will be the tops of the Clover-leaf Valley herd owned by Mr. Roan. There will be some special attractions in the prize winning animals to be sold. Some of these have never been beaten in the show ring and some are from world famous sire. Read their advertisement and be on hand. Please mention Kansas Farmer when you write him.

### Special Train for Robinson Sale.

J. C. Robinson, owner of the Whitewater Falls Percherons at Towanda, Kan., is nothing if not enterprising. His sales of Percherons have been record breakers, whether held at Wichita or in the splendid new sale pavilion on the farm, but his greatest successes have been with sales held on his magnificent breeding farm. This year he will take special care of the buyers by running a special train over the Missouri Pacific for their accommodation. This train will leave Wichita on the morning of February 14, the day of the sale, and will return to Wichita in the evening after the sale is over. It is like going to a horse show to visit the Whitewater Falls farm, and when the interest in the sale of these splendid Percherons is added the Robinson sale date is sure a red letter day.

We want to thank the Kansas Farmer for the good it has done us in selling our surplus cattle. We are entirely sold out and may not have anything to offer until fall. Although new to this country the Dutch Belted cattle are already popular.—M. F. Knudson, Manager Springdale Herd Dutch Belted Cattle, Concordia, Kan.

### Cottingham Percheron Sale.

The Percheron sale of Cottingham & Son was attended by a large crowd. The offering of registered Percherons was in fine condition and sold for only fair values, considering their real worth. Following is report in full:

|     |                                 |          |
|-----|---------------------------------|----------|
| No. | H. Roper, Denver, Colo.         | \$340.00 |
| 2.  | B. W. Webb, McPherson, Kan.     | 400.00   |
| 3.  | A. A. Williams, McPherson, Kan. | 400.00   |
| 4.  | R. C. Yoder, Windom, Kan.       | 395.00   |
| 5.  | R. C. Yoder                     | 575.00   |
| 6.  | S. D. Rutledge, Little River    | 325.00   |
| 7.  | H. Roper, Denver, Colo.         | 460.00   |
| 8.  | A. A. Williams                  | 355.00   |
| 9.  | R. S. Yoder                     | 515.00   |
| 10. | H. Roper                        | 405.00   |
| 11. | M. B. Zook, McPherson, Kan.     | 400.00   |
| 12. | R. C. Yoder                     | 345.00   |
| 13. | H. Roper                        | 575.00   |
| 14. | Arthur Dold, McPherson, Kan.    | 250.00   |
| 15. | H. Roper                        | 240.00   |
| 16. | Arthur Dold, McPherson, Kan.    | 530.00   |
| 17. | H. Roper                        | 350.00   |
| 18. | Henry Nordlin, McPherson, Kan.  | 350.00   |
| 19. | R. W. Smiley, McPherson         | 500.00   |
| 20. | Arthur Dold, McPherson          | 330.00   |
| 21. | L. H. Bard, Marquette, Kan.     | 690.00   |

Twenty head registered mares and stallions averaged \$416.

### Lobaugh's First Sale a Good One.

A. C. Lobaugh, Poland China breeder of Washington, Kan., made his first bred sow sale in Washington, January 27. The offering was a first class one and presented in excellent breeding condition. Eight tried sows and 31 spring gilts averaged \$39.10. The sale attracted some of the state's best breeders, among them Herman Groninger, Bendena, Kan.; J. H. Harter, Westmoreland, and A. R. Rystead of Mankato, Minn. James T. McCulloch made the sale, selling the entire lot in about two hours. Mr. Rystead topped the sale at \$82, buying the choice tried sow, Chief's Best, No. 35 in catalog. A list of sales at \$35 and over follows:

|     |                                  |         |
|-----|----------------------------------|---------|
| No. | P. E. Arnold, Washington         | \$40.00 |
| 2.  | W. E. Long, Ozawie, Kan.         | 40.00   |
| 3.  | H. L. Clapp, Washington          | 35.00   |
| 4.  | Walter Hildwein, Effingham       | 35.00   |
| 5.  | A. R. Rystead, Mankato           | 41.00   |
| 6.  | A. R. Rystead                    | 44.00   |
| 7.  | James Wylie, Washington          | 35.00   |
| 8.  | Elmer Veach, Washington          | 31.00   |
| 9.  | H. L. Clapp                      | 43.00   |
| 10. | H. L. Clapp                      | 43.00   |
| 11. | H. L. Clapp                      | 35.00   |
| 12. | James Wylie                      | 24.00   |
| 13. | H. L. Clapp                      | 36.00   |
| 14. | H. L. Clapp                      | 43.00   |
| 15. | H. B. Walter, Effingham, Kan.    | 43.00   |
| 16. | H. L. Clapp                      | 41.00   |
| 17. | Chas. Zilgerhart, Linn           | 41.00   |
| 18. | H. L. Clapp                      | 35.00   |
| 19. | A. R. Rystead                    | 42.00   |
| 20. | Herman Groninger & Sons, Bendena | 53.00   |
| 21. | Elmer Veach, Washington          | 47.00   |
| 22. | A. R. Rystead, Mankato           | 52.00   |
| 23. | H. L. Clapp                      | 40.00   |
| 24. | H. L. Clapp                      | 42.50   |
| 25. | P. E. Arnold                     | 39.00   |
| 26. | H. L. Clapp                      | 50.00   |
| 27. | J. H. Harter, Westmoreland       | 50.00   |
| 28. | J. F. Gelsman, Washington        | 50.00   |

### Polled Durham Cattle Sale.

We wish to call the attention of our readers to the half page ad of C. J. Woods of Chillicothe, Kan. Mr. Woods is selling a useful lot of breeding sows and including his 1910 show herd. Please send for a catalog and arrange to attend the sale.

(Continued on page 45.)



## Nebraska Wonder and King of Col. Duroc Jersey Bred Sow Sale at Blue Rapids, Kan. Monday, Feb. 27

50 head of splendid individuals, with first class pedigree; 10 fall yearlings and 40 spring gilts, all bred for March and April farrow to Welch's Wonder by Walnut Wonder, dam by Neb. Wonder; Blue Rapids Col. by Col. C., he by King of Cols. 2d, and Carter's Golden Rule by Golden Rule Special, he by the great Pearl's Golden Rule.

**FALL YEARLINGS**—are daughters of King of Cols. 2d and G. C.'s Col. and out of Model Chief Again and C. B.'s Col. dam..

**SPRING GILTS**—by old Neb. Wonder and Queen Col., Chester Thomas's great boar sired by King of Col. 2d and out of the noted sow, Crimson Queen. The dams of the spring gilts are practically all by Neb. Wonder and Kansas Wonder. This is one of the best offerings of the season both as to breeding and individuality and must be seen to be appreciated. Write for catalog, mentioning Kansas Farmer, and if unable to attend send bids to Jesse Johnson in our care. Sale at farm adjoining town.

# MORGAN & KAUMP

Successors to E. R. Morgan  
Blue Rapids, Kansas

AUCTIONEER—FRANK ZAUN.

## GRONNIGER'S ANNUAL Big Type Bred Sow Event

At farm near Bendena, Denton and Severence, Kansas,

## Thursday, Feb. 23, 1911

50 head, a draft from one of the biggest herds in Kansas.

10 TRIED SOWS      30 FALL YEARLINGS      10 SPRING GILTS  
BRED TO THESE GREAT BOARS.

, Big Hadley's Likeness, Banner Boy, Exalter by Expansive, Defensive by Defender, and Warewell 56504.

**TRIED SOWS**—Consist of some of the best individuals and workers we have ever had in the herd. We hate to see them go but it takes good ones to make a sale now days.

**FALL GILTS**—Are an outstanding bunch mostly sired by Banner Boy. Others by Granite's Quality, Gold Dust Hadley, Major Bob, Wise's Hadley, etc.

**SPRING GILTS**—Are tops sired by Union Leader, Big Hadley's Likeness, Colossus, Gold Standard, Gold Metal, and other good, well known boars. Their dams are big sows sired by Expansion, Gold Metal, Sunflower, King Hutch, First Quality, etc.

Sale will be held in pavilion on farm and every one made comfortable no difference what kind of weather. Plenty to eat and hogs at your own price. Write for catalog giving breeding and other information. Send bids to Jesse Johnson who will represent Kansas Farmer at this sale.

# HERMAN GRONNIGER & SONS

BENDENA, KANSAS

AUCTIONEER—JAS. W. SPARKS.

## Geo. Smith's Mammoth Hadley Poland China Bred SOW SALE

## Wednesday, Feb. 22, 1911

40 Mortgage Lifters

40 Mortgage Lifters

Comprising 3 tried sows, 6 fall yearlings and 30 spring gilts, all bred for March and April farrow to Mammoth Hadley, Grand Model by Look Grand and a good son of O. K. Price.

**TRIED SOWS**—Include a very choice sow by Mammoth Hadley with a dam by Johnson's Chief.

**FALL YEARLINGS**—Good ones and every one sired by Mammoth Hadley.

**SPRING GILTS**—By Mammoth Hadley and Grand Model and out of as great a lot of dams as can be found in the state, daughters of Johnson's Chief, O. K. Price, Looks Grand, Prince Youtell, Golddust, Growthy King, etc. You know the blood and the type that goes with it. I am putting up my usual good offering and will sell them in the condition that will insure future good to the buyer. I know fat sells them sometimes but I would rather take a few dollars less and make customers that will come every year. I know this offering will please and I invite every lover of good hogs to attend either as a buyer or visitor. Write for catalog and either attend or send bids to Jesse Johnson in my care.

# Geo. W. Smith

Burchard, Neb.

AUCTIONEERS—L. W. LEONARD AND SONS.

## Growthy King the 1000-lb. Litter <sup>Bro.</sup> of Long Kings Equal

Will be ably represented in my next bred sow sale, to be held at farm one mile west of town

## Friday, February 24th

## Pawnee City, Nebraska

46 head, 6 of my best tried sows and 40 gilts of the Growthy King type, that are big, wide out, heavy hammed, meat carrying kind. The tried sows include two daughters of the noted Big Hadley. Both of them have King Do Do dams. Favorite by Blain's Tecumseh 2d and Bonnie Maid by Johnson's Chief. The truth is I have gone into the herd and selected as attractions for this sale six of about the best sows I have ever owned. They will be bred for March and April farrow to Growthy King and the great breeding type maintaining sire, Look Grand. The gilts are daughters of this great pair of boars and out of such sows as we have mentioned. In order to continue my policy of making every cross show an improvement I have bought from Peter Mouw of Orange City, Iowa, a young boar and mated him with a large number of these outstanding good gilts. I have raised this kind for many years and have always tried to have the best but have never raised a bunch before that suited me so well. I am greatly impressed with them as brood sow prospects and still they have the finish and feeding propensities that are not always seen in big hogs. Catalogs are ready any time and will be sent upon request.

# G. S. HAMAKER

Pawnee City, Nebraska

AUCTIONEERS—L. W. LEONARD AND SONS.

Jesse Johnson fieldman for this paper. Send bids to him.



## Pure Scotch and Scotch Topped Short Horns AT AUCTION TUESDAY FEB. 21, 1911

At Farm four miles east of Clay Center, Kans.  
**35 Head of Choice Individuals. Every  
one with Pedigrees to Match.**

9 red blocky, sappy bulls in age from 10 to 17 months, 5 by Scottish Archer, 4 by the great Lord Marr. A number are out of Red Knight cows, all have several Scotch tops and include the pure Scotch September yearling Orange Lord, full brother to the bull that topped F. M. Gifford's last year's sale. His dam is an Orange Blossom cow and one of the best breeding and milk giving cows in the herd. The bull shown successfully the past season at local fairs is also included. He is a son of Lord Marr and his dam was a Red Knight cow.

The cows that will be bred and nearly all of the heifers will be in calf to my new herd bull, Whirlwind 334380, one of the very best sons of Captain Archer. His dam was a Butterfly cow by Orange Godoy.

16 cows with calves at foot, part of them rebred, 9 two year old heifers all in calf. Of the 16 cows 5 are pure Scotch and include Butterfly 13th, a most excellent cow with a rich pedigree. She will be sold with a Lord Marr bull calf at foot that will make a bull good enough to head any herd. Secret of Prairiedale with twin calves at foot. Violet Butterfly, a very large cow and good individual. An Orange Blossom cow, a Butterfly and a Secret heifer are real attractions. 3 daughters of the great old bull, Red Knight, two of them with calves at foot. The two year old heifers are daughters of Lord Marr and Scottish Archer. They are very uniform and not a poor one in the lot.

Last summer I purchased F. M. Gifford's entire herd consisting of 39 head, a bunch of Reserve breeding cows and heifers that he had up to that time refused to price. 50 per cent of this offering are animals included in that purchase.

This is my first public sale and I am trying to put up an offering that will be appreciated and make friends for the herd in years to come. The offering is uniform, excellent colors and the cows are splendid milkers. It has always been our plan to dispose of the shy milkers. The past season we made the circuit of the best county fairs in northern Kansas and have a nice lot of good winnings to our credit. You are invited to attend the sale either as a buyer or visitor. Catalogs mailed upon application. Free transportation to and from farm.

ACTIONEERS—AS. T. McCULLOCH, H. R. LITTLE.  
Jesse Johnson, fieldman for Kansas Farmer.

**S. B. AMCOATS, Clay Center, Kans.**

## Purple Blood Durocs AT AUCTION Garnett, Kans, Feb. 13, 1911

Daughters of Ohio Chief, Lincoln Wonder, Improver 2d, Fuller's Ohio Chief and their gilts go in this sale.

N. J. FULLER,

GARNETT, KANS.

## 118 MULES, 24 MARES and COLTS SALE at Alma, Kan., Wed. Feb. 22, 10 a.m.

4 4 and 5 year old mules; 37 3 year old mules, all broke to work, weighing up to 1,200; 65 2 year old mules, well halter broke, weighing up to 1,000; 8 yearling mules, halter broke, weighing up to 700; 4 thoroughbred jennets, bred to best jack in Kansas; two with colts by same jack (one jack and one jennet colt); 18 large brood mares, weighing from 1,400 to 1,800, all bred to jack; 3 2 year old colts, extra good; 2 1 year old colts, extra good; 1 registered 2 year old Percheron stallion. Mules are all home bred and from best mares and jacks in the country.

A 7 year old Kentucky jack, one of the best in the state, is offered at private sale.

On Rock Island main line and Santa Fe branch. Stock delivered on cars. Strangers should bring bank reference or certified check.

**STUEWE BROTHE S, Alma, Kans.**

## HORSES AND MULES

THE BEST IMPORTED HORSES, \$1,000 each. Home-bred, registered draft stallions, \$250 to \$600. In my stable doors. Address A. LATIMER WILSON, Creston, Iowa.

HOME-BRED DRAFT STALLIONS \$250 to \$600; Imported stallions, choice \$1,000. P. L. STRICKLAND, Creston, Iowa.

## REGISTERED HORSES

O. K. BARNES, SAVANNAH, MO.

W. E. Price, Proprietor.

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

PERCHERON HORSES, HOLSTEIN-FRIESIAN CATTLE.

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

## DUNHAM'S PERCHERONS

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

**W. S., J. B. & B. DUNHAM**  
MAYNARD, ILL.

Harness Catalog. If you have not written Inskeep & Schauble, Manhattan, Kan., for their harness catalog, today is a good time to do this.

# LEE GROSS Poland China



## Bred Sow Sale

NODAWAY, MO.

# Wed. Feb'y 15

60 head consisting of 5 tried sows, 7 yearlings, 22 fall sows and 26 head of extra fine March gilts. The tried sows will include Katherine by Expansion 2d, and bred to Long King's Equal, and Lady Garrison by Tulon Prince, bred to Expansion's Son. The yearlings will include the first, second and third prize senior yearlings and champion at the St. Joseph Inter-State Stock Show. The fall sows will include the great Lady Wonderful, the best gilt A Wonder ever sired. This sale will also include seven of the best gilts from John Lawson's herd at Clarinda, Iowa, bought from Mr. Lawson when he decided not to have a spring sale. Catalog now ready.

# LEE GROSS

Nodaway, Missouri

## Imported Percheron and Belgian Stallions

A number of fine stallions from the famous Holbert Importing Co., of Greeley, Ia., are now for sale at Krause Feed Barn, New Hampshire Street, Lawrence, Kan. All of them young stallions in the pink of condition, ready for service. Horses Right. Prices Right. Communicate with George Robertson, Lawrence House, Lawrence, Kan., or better, come and see them.

**A. B. HOLBERT, Lawrence, Kans.**



## Percherons Belgians and Shires

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

## Percheron Stallions

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

Yours for home grown Percherons  
**J. W. BARNHART, Butler, Mo.**



# LAMER THE IMPORTER

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

C. W. LAMER, SALINA, KANSAS

## LAKEWOOD FARM

The Greatest Breeding Establishment in the World

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

At this great show, we won:

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

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

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

H. G. McMILLAN & SONS, Props.

Rock Rapids, Iowa

IMPORTERS AND BREEDERS.

## Percherons, Shires and Belgians

25-HEAD MARES AND STALLIONS-75

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

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

## PERCHERON MARES

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

F. D. WEBB, Sterling, Kan.

## AVONDALE STUD FARM--CLYDESDALES

LARGEST IMPORTER AND BREEDER OF CLYDESDALES IN U. S.

Our winnings at the State Fair, including the Grand Champion Stallion of the International, 1910, is our best advertisement. Those wanting stallions or mares should write for catalog or visit the farm. To make room for other importations in February, we will make a special discount for next 30 days. We are 10 miles west of Peoria on the C. R. I. & P. Ry.

JOHN LEITCH, Proprietor, La Fayette, Ill.

## VALLEY SPRINGS PERCHERONS

IMPORTED AND HOME-BRED STALLIONS AND MARES.

Stallions weighing 2,200 lbs. Mares weighing 2,000 lbs. Young stock from weanlings up with plenty of bone and best of blood lines.

KENTUCKY MAMMOTH BLACK JACKS AND JENNETS.

My fourteenth public sale at Lincoln, Neb., February 15, 1911.

O. P. HENDERSHOT,

Hebron, Neb.

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

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

EMPORIA, KAN.

EASY TO GET THERE.

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

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

# BREEDERS' SALE 400-HORSES-400

In Coliseum, Bloomington, Ill.

February 28, March 1, 2, 3

On Tuesday, Wednesday, Thursday and Friday, we will sell 350 Imported and Native Bred Registered Percherons, Belgians, French Draft, Shire and Clydesdale Stallions and Mares.

100 Head of imported stallions and mares that will land by sale day.

150 Head of imported stallions and mares that have been here a year.

150 Head of the best registered mares that ever went in an auction ring.

50 Head of imported fillies, 1 and 2 years old.

100 registered stallions of the very choicest of breeding and individuality.

On Friday, March 3, 1911, we will sell 100 head of Registered Trotters, Grade Draft, Saddle and All-purpose farm horses, stallions, mares and geldings.

50 Shetland Ponies from the best breeders in the state. Stallions, mares, and geldings, fit for your wife and children to drive.

CONSIGNORS—Moots Bros., D. Augustin, Leemon Bros., J. H. Weaver, Dodson Bros., Woolf Bros., Down Bros., D. E. Stuart, I. Dillon, Welch & Peck, Helander & Co., Burgess & Son, Wm. & Fred Finch, J. R. Pendergast, H. W. Bowman, Rowe Bros., Sass Bros., T. J. Moore, Coleman Bros., Ben Bohlander, M. E. & J. M. Leigh, Enos Stuart, and fifty others.

Catalogue ready February 10.

# Breeders' Sale Co.

C. W. HURT, Manager  
ARROWSMITH, ILLINOIS

"YES SHE'S COMING"

FAULKNER'S  
BRED SOW  
THE  
OLD SALE  
ORIGINAL  
BIG-BONED  
SPOTTED  
KIND

Wednesday, Feb. 15th  
JAMESPORT, MISSOURI

FIFTY TRIED SOWS, YEARLINGS AND SPRING GILTS

All bred and safe with pig to service of my

BIG BONED SPOTTED BOARS

Budweiser 34644, Brandywine 47596 and Billy Sunday 54343, the Greatest Trio of Breeding Boars on any Farm in America.

If you like the "Farmer's Kind," the "Prolific Kind," the "Spotted Kind," be my guest.

Write for catalog and learn more about this great herd. Sale in town under cover.

W. J. Cody will represent Kansas Farmer.

Cols. Wells, Perrine, Shepherd, Cies, Nelson and Deem, Auctioneers

H. L. FAULKNER, OWNER

Highview Breeding Farm.

Jamesport, Mo.



# ROBISON'S PERCHERON SALE

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

At Auction, at the Whitewater Falls Stock Farm,

**TOWANDA, KANSAS, FEBRUARY 14, 1911**



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

**PRIZE WINNERS!**

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

**At Sale Pavilion on the Farm.**

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

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

Oldest Percheron Breeding Farm in Kansas.

Four miles northwest of Towanda, Kansas, on the Missouri Pacific Railroad.

Stallions all guaranteed breeders.

Stock loaded on cars free of charge.

Address for catalogue,

**J. C. ROBISON.**  
**TOWANDA, KANSAS**

## Miller & Manderscheid Poland China Sale

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

More size, more rich breeding than we ever sold.

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

**MILLER & MANDERSCHIED**  
ST. JOHN, KANSAS



## Larson's Closing Out Hereford Cattle Sale

Saturday, February 18th.

At farm near Everest 20 miles North-west of Atchison, Kansas, 35 miles West of St. Joseph, and near Pierce Junction.



My entire herd of registered Hereford cattle, comprising 15 high class bulls in age from 3 to 20 months. 45 FEMALES: 28 of which are cows with calves at foot or in calf to the great bull, Beau Royal 199349, first prize bull at Denver show 1908; 6 two year old heifers and 11 yearlings. This herd was established fifteen years ago and every animal except four that goes in the sale was bred by me. Eight very choice cows are daughters of Hesiod 54th, a state fair winner. A dozen good ones by Romolusa, grandson of Beau Brummel and Druida, a Gudgell & Simpson bull of considerable note. Several daughters of Beau President, and several by Beau Mischief by Beau Brummel. The offering is of a very uniform type and there will not be a poor animal offered. Every good family represented. Write for catalog giving complete information, breeding, etc.

**JAMES. A. LARSON**

EVEREST, KANSAS

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

AUCTIONEER—COL. GEO. BELLOWS, ZAUN AND STREETOR.

FIELDMAN—JESSE JOHNSON.



Smooth, Richly Bred  
**POLAND CHINA SOWS**  
**AT AUCTION**

At farm 7 miles northwest of Abilene, Kansas

**Monday, Feb. 20th, 1911**

45 Head in All the Correct Type and Prolific

**20 Tried Sows**  
**10 Fall Yearlings**

**10 Spring Gilts**  
**5 Summer Boars**

Sows all bred for March and April farrow to Monarch, a son of Expansion. Gilts bred for early spring farrow to sons of Best Metal by Gold Metal. Their dam was by Grand Chief. Fall and spring gilts are daughters of Monarch. Among the tried sows are three daughters of Highland Chief Jr., 2 by Broadgauge by Grand Chief and out of Broad Ham-Sallie. One daughter of Axline's Meddler 2d, 6 extra good ones by Stemwinder, the boar formerly heading C. M. Garver's herd. One by Best Metal, one by the Nebraska first prize boar, stylish Perfection, and one by Missouri Keep On.

(Monarch for sale privately sale day.)

**ANGUS BULLS**

Also 7 choice Aberdeen Angus bulls in age from 18 to 24 months. Good individuals and sired by McDonald Lad, an International and American Royal prize winner.

A catalog of this sale has been issued and will be sent upon request. Free entertainment at Depot Hotel in Abilene.

**COLLINS & HANSEN**

Abilene, Kansas

AUCTIONEERS—H. R. LITTLE, J. N. BURTON.

Jesse Johnson will represent Kansas Farmer. Send him bids.

**L. E. BOYLE'S**  
**Duroc Bred Sow Sale**  
**At Lindsay, Kansas**  
**Friday, Feb'y 17, 1911**

**40 Head 20 TRIED SOWS 40 Head**  
**20 SPRING GILTS**

They are sired by Woodland Orion, Fancy Chief by Ohio Chief, Fancy Improver, Fancy Top Notcher, Beauties Wonder, L. E.'s Wonder, Pearl K. by Bonney K. They are bred to our herd boars.

L. E.'s wonder, he sired by Wonder Chief by Ohio Chief, his dam also tracing to Ohio Chief. He is a strong hog, having the best heart girth and back we ever saw, good on feet, plenty of bone, an easy feeder and good color. You will like his get that are in this sale.

L. E.'s Col., sired by B. & C.'s Col. and his dam by Inventor. Just look for a minute at this combination of breeding. Did you ever see so many champion hogs on one pedigree? A litter from this fellow will give you new blood that is good and will be in demand next year. B. & C.'s Col. is now living in Kansas and will be heard from.

Our catalogs are ready and we would be pleased to mail you one. Your presence will be appreciated at the sale but if you cannot attend make your selections and send your bids in my care to R. G. Sollenbarger and your instructions will be followed to the letter.

**L. E. BOYLE**

Lindsay, Kansas

W. T. Fitch sells at Minneapolis the day before; we are only 3 miles apart. The Parker House at Minneapolis will be headquarters for both sales.

**ANNUAL DUROC JERSEY**  
**BRED SOW SALE**

FROM THE

**RIVER BEND HERD OF**

**W. T. FITCH, MINNEAPOLIS, KANS.**

**Thursday, February 16—1911**

35 head bred sows, yearlings and gilts. 10 tried sows will be offered sired by Fitch's Kant, Beauties Wonder, Top Notcher Chief, Pearl's Golden Rule, litter mate to the good boar, Golden Ruler. Better watch this one.

25 yearlings and gilts sired by Fitch's Kant, Rosebud Chief, Beauties Wonder, River Bend Col.

The sows by Fitch's Kant are extra good and will make valuable brood sows for you. They are all bred to River Bend Col. About half the offering is bred to Fitch's Kant, who is sired by Kant Be Beat and his dam by Ohio Chief. He is proving to be an extra good breeder of large, useful sows and boars. You can not afford to miss getting a litter from him next year. Catalogs are ready and you should have one, which will be mailed on application, and if unable to attend sale send sealed bids in my care to G. R. Sollenbarger of this paper.

**W. T. FITCH, MINNEAPOLIS, KANSAS.**

AUCTIONEER—JOHN BRENNAN.

Leon Carter sells the day before at Asherville and L. E. Boyle the day after at Lindsay, Kan. Attend the circuit.

**Harter's Annual Big**  
**Type Poland China**  
**Bred Sow Sale :-:**

At Farm Near Town

**Thursday, Feb. 16, 1911**

50 head that are by far the best I have ever offered.

Comprising 10 tried sows, 10 fall yearlings and 30 spring gilts.

**TRIED SOWS**—Include Queen Pansy by Expansion, Silver Beauty by Silver Chief, Maud Perfection 3d by Captain Hutch, and Pretty Princess, a King Do Do sow.

**FALL GILTS**—Good individuals sired by Mogul's Monarch, Captain Hutch and Gold Metal.

**SPRING GILTS**—Sired by Mogul's Monarch, Captain Hutch, Colossus, Prince Hadley, Ross's Hadley, Defender and Big Bone Mouw.

The dams of fall and spring gilts are as good a line of sows as can be found in any herd in Kansas. Daughters of **EXPANSION, PRINCE YOU TELL, SILVER CHIEF, MOGUL'S MONARCH, CAPTAIN HUTCH** and other great boars.

Everything bred for March and April farrow to Mogul's Monarch, Captain Hutch and Blain's Sufficient, grandson of Blain's Wonder.

Write early for catalog. Free transportation from Blain and Fostoria.

**J. H. Harter**

Westmoreland, Kansas

AUCTIONEERS—JAS. W. SPARKS, JAS. T. McCULLOCH, W. H. TROSPER.

Send bids to Jesse Johnson representing Kansas Farmer.



# SPECIAL SALE

## *JACKS and JENNETS*

### MARCH 1, 2, 1911

5th ANNUAL SPECIAL  
SALE OF

## JACKS AND JENNETS

### Lafayette County

JACK FARM

One mile east of Higginsville, on  
main line of C. & A. and Lexington &  
Sedalia Branch of Mo. Pacific, 55  
miles east of Kansas City.

Send for catalog. Come to my sale.



100 Head High-Class  
Registered Black

## JACKS AND JENNETS

Every animal registered and guaranteed as represented. Nothing priced or sold after catalogued. Free conveyance from town to sale. Catalogues will be ready February 1. If interested write for catalogue and come to the sale. You will not be disappointed, but highly pleased, as I am offering the best bunch of Jacks that I have ever had the pleasure of offering to the public. They have been picked from the best strains of blood in Missouri and Kentucky. Every one a good one, with size and quality combined. I will be pleased to meet you and entertain you at my expense. Stop at the Arcade Hotel, opposite C. & Alton depot.

## W. J. FINLEY, Higginsville, Mo.

## Double Standard Polled Durham Sale

### Sixty Head

of high class cows and heifers, including my 1910 show herd and the champion herd bull, Roan Hero. Several choice young bulls. The cows and heifers are either sired by Roan Hero or are bred to him for early spring calves.

Send for my nicely illustrated catalog and come to my sale. Please mention Kansas Farmer when you write.  
Sale begins promptly at 1 p. m. on farm near Chiles, Kan.

## CHILES KANSAS February 25th



HEYDEN ROSE 2D, FLORA'S DUCHESS AND ROAN CHOICE, CHAMPION POLLED DURHAM CATTLE HERD OF 1910, ALL Sired by ROAN HERO. WILL BE SOLD IN C. J. WOOD'S SALE, FEB. 25, 1911, AT CHILES, KAN.

## C. J. WOODS, CHILES, KANSAS

AUCTIONEER—GEO. P. BELLOWS.



**GOLDEN RULE FARM**

LEON CARTER, Proprietor

**Annual Duroc Bred Sow Sale**  
Wednesday, February 15, 1911

45 HEAD--ASHEVILLE, KANSAS--45 HEAD

The lot will consist of 14 tried sows by Lincoln Chief, McParker, Ohio Major, Major Sharon, Golden Rule Special and Echo's Best.

10 fall gilts by Golden Rule Special, 20 spring gilts by Golden Rule Special, Golden Rule Wonder, Chief Improver, Masterpiece Chief.

**SPECIALS**—One gilt sired by Masterpiece Chief, he by Model Chief, her dam by Seckman's Chief by Ohio Chief 2d by Ohio Chief. This gilt is bred to Dreamland Col.

Rosa Lee by Echo's Best and dam by Ohio Major by Kant Be Beat. This is one of the very best Duroc sows we ever saw. We challenge any one to beat her ham and loin, good in every other way, bred to Dreamland Col.

The sows and gilts in this sale are bred as follows to

**OUR HERD BOARS.****Dreamland Col.**—Sired by Waveland Col., he by Ohio Chief. Dam Lad's Goldie 40th by Tip Top Notcher. A long stretchy fellow, plenty of bone; will make an extra large hog. He is bred right. You need a sow bred to him.**L. C.'s Defender.**—Sired by Defender, he by King of Cols. Dam by Educator by Ohio Chief. This hog is large and growthy and if you please is the most popular blood for next year. Sows bred to Defender in Browning & Pancake's sales in Illinois sold on an average of \$150. Get in the band wagon and get a sow bred to this fellow.**Golden Rule Wonder.**—Sired by Chief's Wonder, he a son of Ohio Chief and grandson of Crimson Wonder. Golden Rule Wonder's dam was by Kant Be Beat.

Send for catalog now and if unable to attend send bids to R. G. Solenbarger in my care and same will be handled right.

Sale will be at farm adjoining town. Every one invited and welcome. Expecting to see you sale day I am, Yours for good Durocs,

**LEON CARTER**

ASHEVILLE, KANSAS

AUCTIONEER—JOHN BRENNAN.

W. T. Fitch, Minneapolis, Kan., sells next day.

**PECKHAM'S BIG TYPE  
BIG LITTER****POLAND CHINA  
BRED SOW AUCTION**

Wednesday, February 15th

AT FARM FIVE MILES FROM TOWN

45 head, the kind that has made this section of Nebraska famous as a big hog territory. 5 tried sows and fall yearlings and 40 early farrowed gilts. Not a poor back or undersized one in the lot. All bred for March and April farrow to my herd boars, O. K. Chief, Looks Choice and my great young boar, Hadley Golddust. Nearly all of the spring gilts were sired by O. K. Chief and Look's Choice. There will be two sired by Blain's Last Hadley and out of the great sow, Tec. Golddust. A litter brother to these gilts topped my fall sale at \$80 and is now heading a good Kansas herd. The dams of the gilts are magnificent old sows, large, prolific and carrying the blood of the ones that have made this type popular. Among them daughters of King Do Do by Expansion, Blain's Tec., Johnson's Chief, Standard Tec., O. K. Price, etc. Among old sows that go into the sale are Flora B. by Sampson's Hadley, he by Big Hadley. I have selected only such as have done well as breeders for me. Among the gilts that go in are three of Standard Queen's litter of 13 and four extra good ones from the great Nan Patterson litter, also a litter of 13. If you like the great big, long, big litter kind I am sure you will be interested in this offering.

Catalogs sent upon application. If unable to attend send bids to Jesse Johnson in my care. Free transportation to and from town.

AUCTIONEERS—L. W. LEONARD AND SONS.

**R. J. PECKHAM**

PAWNEE CITY, NEBRASKA

**PERCHERON HORSES  
AND POLAND CHINA  
BRED SOW AUCTION**

IN SALE PAVILLION

Hiawatha, Kansas, Friday Feb. 17, 1911

One black Percheron draft stallion three years old Jan. 1, 1910, weight 2,000 pounds perfectly drafty and perfectly sound so pronounced by the veterinary that examined him.

One black Percheron stallion two years old April 1, 1910, weighs 1,650 pounds, perfectly sound.

One black Percheron stallion two years old May 1, 1910, perfectly sound, weight 1,600.

One dark steel grey Percheron mare four years old May 1, 1910, in foal, weight 1,700, sound and an excellent individual.

One dark steel grey gelding four years old, weight 1,750, a number one true draft horse.

All of these horses were sired by imported stallions and out of pure bred unrecorded mares.

**POLAND CHINAS**—45 head of the big type kind.

26 large, lengthy heavy boned spring gilts bred to four as good boars as were ever grown.

**2 TRIED SOWS**—Also bred for spring farrow.**20 FALL PIGS**—Mostly gilts, weight about 125 pounds. The hogs have been fed for results and will prove good investments.

Parties from a distance should come day before if possible. Everything free but the stock. Write for catalog.

**John D. Ziller, Hiawatha, Kans.**

AUCTIONEER—JAS. W. SPARKS.

Jesse Johnson, Fieldman.

**Carver & Son and Ellis  
Poland China  
Brood Sow Sale**

At Guilford, Mo., Tuesday, Feb. 14

(Thirty miles north of St. Joseph)

10 Aged Sows and Fall Yearlings

40 Spring Gilts

Strictly the big type both in breeding and individuality. An opportunity to buy sows sired by or bred to Great Look 47659, who breeds more size and finish combined than any other half ton boar living. Daughters of Great Look bred to Capitol 53854, the great western champion of 1909, that weighed 635 pounds the day he was 1 year old. 25 extra good gilts are sired by Capitol 53854 and Gale's Surprise 57384 that are granddaughters of Great Look and Big Surprise 48274 and bred to Capitol 2d 58359 and Hadley's Special 58325.

Usual terms and accommodations. Sale under cover. Everything free but the hogs. W. J. Cody will represent Kansas Farmer. Bids may be sent to fieldmen or either auctioneer in our care.

For catalogs giving full particulars address either

**E. E. Carver & Son  
Millard Ellis**

Guilford, Mo.

AUCTIONEERS—COL. JAS. W. SPARKS, Marshall, Mo.; COL. W. D. GIBSON, King City, Mo.; COL. JULIUS KLAAS, Stanberry, Mo.



# Edward D. Fuhrman & Sons

## Third Annual Sale of Duroc-Jersey Hogs

### OREGON, MISSOURI, FEBRUARY 14th

42 head of bred sows from Eureka Stock Farm will be sold at Howell's Barn in Oregon on the above date. Breeders and farmers will find this a choice lot of gilts. They are mostly by King of Oregon, the great son of Prince Wonder. We guarantee every sow as listed or as we state on sale day. The blood lines are the best. Send for catalog. Parties from a distance will be entertained at Woodland Hotel at our expense.

AUCTIONEERS—COL. A. W. CIES, Chillicothe, Mo.; COL. C. C. KIEL, Grinnell, Iowa.

W. J. Cody, Topeka, Fieldman for Kansas Farmer. Bids sent to any of the auctioneers or fieldmen in our care will be honorably treated.

# Edward D. Fuhrman & Sons

### EUREKA FARM, OREGON, MISSOURI

## H. F. Pelphrey's Mammoth Bred Sow Sale

### Humboldt, Kansas, February 20th

#### LARGE TYPE, WITH SIZE, QUALITY

And rich breeding. In this sale I will sell 50 head of large type Poland China sows and about 60 head fall pigs. I am selling my entire herd. My sows are the tops from many of the best sales held last winter. All my sows are bred early and are safe, and are a grand lot of sows, bred to Taxpayer 2d and other good boars. We are selling them on account of changing location. The fall pigs are the best we ever raised and will be just the right age to grow into money. Don't fail to send for a catalog and come to my sale. O. W. Devine will represent Kansas Farmer. If you can not come bids sent to him will be handled with care. For catalogs write

## H. F. PELPHREY & SON, HUMBOLDT, KANSAS

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

## Short Horn and Poland China Sale

### Kingman, Kansas, Thursday, February 23rd

7 Head of Registered Short Horn Cows, 2 Young Bulls, 8 Breed Sows, 27 Gilts and 8 Boars

The Shorthorn cows are the best I have in my herd, consisting of the choicest breeding cows. Mariner's Gem, got by Cruickshank Clipper and out of Marie Gem, tracing to Imp. Acron 2d; Orange Acron, got by Prince Odric, out of Princess Acron by Imp. Acron 2d; Baroness Countess by Prince Odric out of Evening Star by Imp. 22d Duchess of Gloster; Barompton Lady 2d by Cruickshank Clipper, out of Barompton Lady by Imp. Butterfly 44th, and other rich breeding. The cows are all bred for early calves and are all in fine condition, bred to my herd bull, Lavender's Choice by Golden Lavender out of Imp. Winford 4th by Scottish Archer.

The Poland Chinas consist of my entire herd, 8 tried sows and 27 choice gilts. I am leaving the farm and will sell all my hogs and cattle, horses and implements. Take a day off and come to my sale. There will be bargains for all. Sale on farm. Free conveyance from Kingman, Kan., to farm. Send for a catalog and arrange to come. I have no mailing list. Write me if you want a catalog.

## W. R. COLEMAN, KINGMAN, KANSAS

AUCTIONEERS—MAJOR W. L. BROWN, COL. ABE SLAUGHTER.

## Large Type Poland China Bred Sow Sale

### Chanute, Kansas, February 21st—25 Head Bred Sows

And 47 head bred gilts, fall yearlings and large, growthy spring gilts. Many of the sows are bred to Erie Expansion, the largest hog in Kansas today. Several of the gilts are sired by Erie Expansion. This positively will be the best offering we have ever offered to the public. We give below a list of part of the sows: Lady Wonder 6th by Blain's Wonder out of Orange Look; D's Lady Mc 4th by Designer out of Lady Mc 3d; Daisy Maid by Longfellow 3d out of Daisy H; Astoria by Pancost out of Eva; Juno M. by Missouri Metal out of Juno's Best; Model Girl by Mammoth Ex out of Black U. S. 1st; Lady Betty 3d by Sterling Jumbo out of Lady Betty 2d; Kansas Lady by Kansas Wonder out of Chief's Lady; Kitty M. by Mammoth Ex. out of Katina; Maud Wa by Kansas Wonder out of Maud Allerton; Florence S. by Spangler's Hadley out of Florence W.; Mound Lady; Sterling Jumbo out of Dehlla D. 2d; Mollie Mouw 3d by Blain's Wonder out of Mollie Mouw 2d, and other sows of equal breeding. The spring gilts are out of the above sows and by the leading boars of the big boned type. All this consignment is safe in pig to our four herd boars, Erie Expansion, John Huch, Expansion's Ideal, and Long Hadley.

Don't fail to send for a catalog; there will be bargains for all. Come and buy some of these good ones while you have the chance. Buy them at a price where you can make money on them. If you can not come bids sent to O. W. Devine of Kansas Farmer will be handled with care, but I ask all farmers, breeders and my friends to come to the sale. For catalogs address

## J. W. PELPHREY & SON, CHANUTE, KANSAS

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



# FIELD NOTES

## FIELD MEN.

Wayne Devine.....Topeka, Kan.  
Jesse R. Johnson.....Clay Center, Kan.  
W. J. Cody.....Topeka, Kan.

## PURE BRED STOCK SALES.

### Horses.

#### Percherons, Belgians and Shires.

Feb. 25—Kansas Public Sale Co., Topeka, Kan.  
Feb. 28 and March 1, 2, 3, 1911—Breeders' Sale Co., Bloomington, Ill.  
Feb. 14—J. C. Robison. Sale at farm, Topeka, Kan.  
March 15—Percheron stallions and mares, Kentucky jacks, at Lincoln, Neb. O. P. Hendershot, Hebron, Neb.

### Combination.

March 4-11—Enid, Okla., Live Stock Show and Sales.

### Jacks.

Feb. 16—Petty Bros., Sedalia, Mo.  
March 1, 2—W. J. Finley, Higginsville, Mo.  
March 7—G. C. Roan, La Plata, Mo.

### Shorthorns.

Feb. 21—S. B. Amcoats, Clay Center, Kan.  
Feb. 23—W. R. Coleman, Kingman, Kan.  
June 6—C. S. Nevius, Chillicothe, Kan.

### Herefords.

Feb. 28—Jones Bros., Council Grove, Kan.  
Feb. 17—J. O. Bryant, Savannah, Mo.  
Feb. 18—James A. Larson, Everest, Kan.

### Polled Durhams.

Feb. 25—C. J. Woods, Chillicothe, Kan. Includes show herd.

### Berkshires.

March 2—Charles E. Sutton, Sutton Farms, Lawrence, Kan.

### Duroc-Jerseys.

Feb. 10—Samuelson Bros., Blaine, Kan.  
Feb. 14—Edward Fuhrman & Sons, Oregon, Mo.  
Feb. 14—Chapin & Nordstrom, Green, Kan. Sale at Clay Center, Kan.  
Feb. 15—White Bros., Buffalo, Kan.  
Feb. 15—Leon Carter, Asherville, Kan.  
Feb. 16—W. T. Fitch, Minneapolis, Kan.  
Feb. 17—L. E. Boyle, Lindsay, Kan.  
Feb. 22—James Auldridge & Son, Pattonsburg, Mo. Bred sows.  
Feb. 22—Phillip Albrecht, Smith Center, Kan.  
Feb. 27—Morgan & Kaump, Blue Rapids, Kan.  
March 1—Frank Elder, Green, Kan.  
March 15—E. S. Davis, Meriden, Kan.

### Poland Chinas.

Feb. 14—E. E. Carver, Guilford, Mo.  
Feb. 15—H. L. Faulkner, Jamesport, Mo.  
Feb. 15—R. J. Peckham, Pawnee City, Neb.  
Feb. 16—J. H. Harter, Westmoreland, Kan.  
Feb. 16—A. F. Wright, Valley Center, Kan.  
Feb. 17—J. D. Ziller, Hiawatha, Kan.  
Feb. 18—Hubert J. Griffith's, Clay Center, Kan.  
Feb. 18—Miller & Manderschied, St. John, Kan.  
Feb. 20—H. F. Pelphrey, Humboldt, Kan.  
Feb. 20—Collins & Hansen, Abilene, Kan.  
Feb. 21—J. W. Pelphrey, Chanute, Kan.  
Feb. 22—George W. Smith, Burchard, Neb.  
Feb. 22—W. C. Milligan, Clay Center, Kan. Bred sows.  
Feb. 23—Herman Gronniger & Sons, Bendena, Kan.  
Feb. 23—W. R. Coleman, Kingman, Kan.  
Feb. 24—G. S. Hamaker, Pawnee City, Neb.  
Feb. 28—W. R. Stump, Blue Rapids, Kan.  
March 4—C. H. Pilcher, Glasco, Kan., and E. C. Logan, Beloit, Kan. Sale at Concordia, Kan.  
Oct. 11—S. A. Hobson & Son, King City, Mo.  
Oct. 21—W. C. Singer, Hiawatha, Kan.  
Oct. 25—Walter Holdwein, Fairview, Kan.  
Oct. 26—H. H. Foster, King City, Mo.  
Oct. 27—J. C. Haldeman, Burchard, Neb.  
Oct. 31—W. T. Williams, Valley Falls, Kan.  
Nov. 1—H. B. Walter, Effingham, Kan.  
Nov. 2—H. C. Graner, Lancaster, Kan.

The Daring Ranch of Oswego, Kan., is advertising some of its famous seed corn in another column. This corn was raised by J. G. Haney, former superintendent of the Fort Hays Experiment Station and now manager of this ranch. It is a prize winner many times over in the State Corn Show and other places. It is a heavy yielder and great drought resister. Write at once for prices.

**One Hundred Head of Jacks and Jennets.**  
On March 1 and 2, W. J. Finley of Higginsville, Mo., will sell 100 head of high class jacks and jennets. Please look up advertisement in this issue and send for illustrated catalog. Mention the Kansas Farmer when you write.

### Bred Sow Sale February 18.

One of the important Poland China bred sow sales to be held in February is that of John Miller and E. J. Mangerscheld of St. John, Kan. The breeding of these sows are from all the popular blood lines and they are high class individuals. The herd boar, King Darkness, is a boar with much quality and is a sire of high class individuals. Send for a catalog and if you cannot attend the sale, send a bid to O. W. Devine, who will treat you fair.

S. S. Smith, Clay Center, Kan., writes as follows: "Kansas Farmer certainly reaches the fellows that want Jersey cattle. I have received over forty letters within the past four weeks. Change my ad as per inclosed copy. I have a very choice lot of Duroc tried sows and gilts bred to a choice Col. boar. I will make very low prices for a short time."

**Big Stock Sale February 22 at Alma, Kan.**  
On Wednesday, February 22, Steuwe Bros. of Alma, Kan., will hold one of the largest sales of live stock ever held in this part of Kansas. The sale includes 118 good work old jacks and 24 mares and colts, one 7-year-old jack, Kentucky bred, and one of the best 2-year-old stallion, one registered Percheron two of them with colts and all bred to best jacks in Kansas. Eighteen of the mares will weigh from 1,400 to 1,800 pounds, and Island road, and is easily reached. Also on Santa Fe branch. For any information about stock write the owners.

**Stump's Bred Sow Sale Averaged \$40.**  
W. R. Stump, one of the best Poland China breeders of central Kansas, held a bred sow sale on January 26. Although

this was one of the early sales and quite a number of the gilts bred late, the entire offering averaged \$40. Herman Gronniger of Bendena, Kan., topped the sale at \$81, buying No. 22, a choice fall gilt by Capt. Hutch. Col. James T. McCulloch conducted the sale. Following is a list of representative sales:

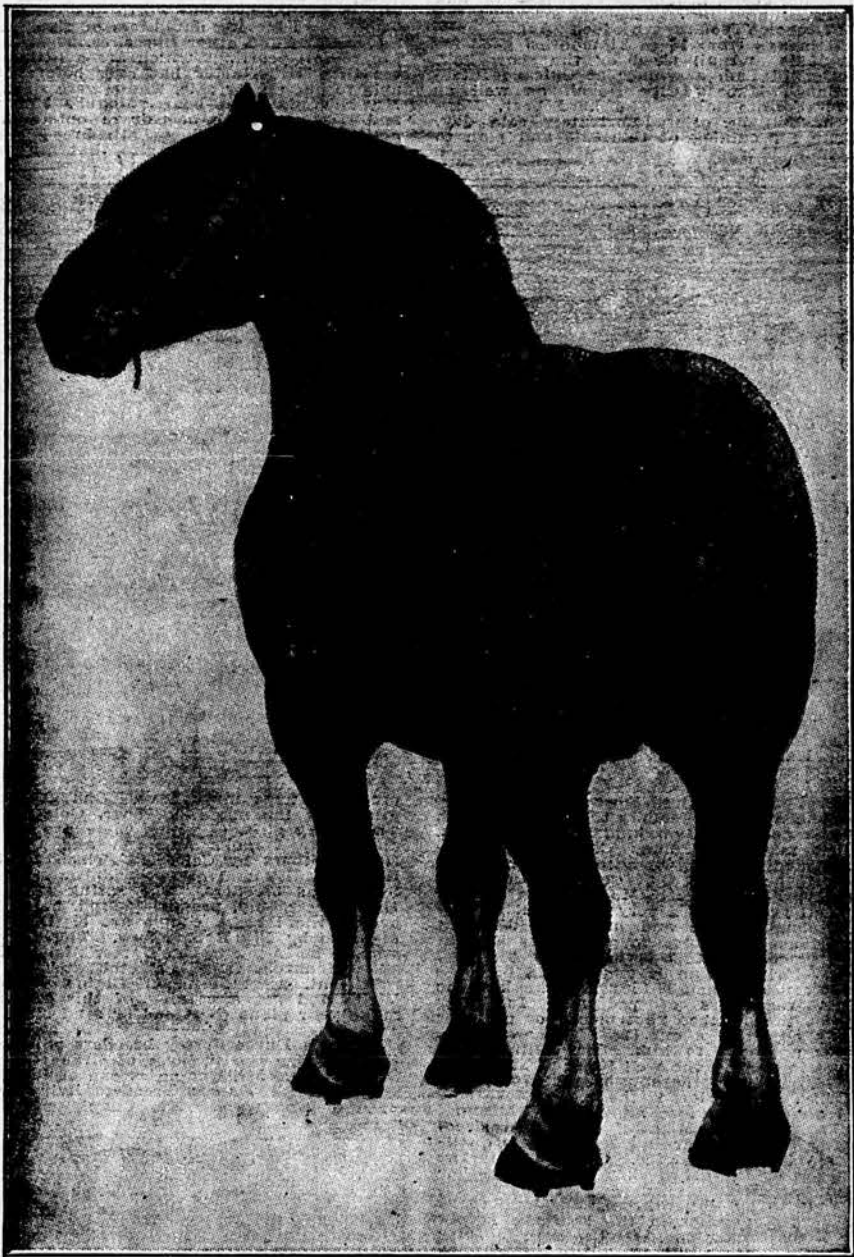
|        |                                |         |
|--------|--------------------------------|---------|
| No. 1. | W. F. Fulton, Waterville, Kan. | \$70.00 |
| 2.     | J. H. Harter, Westmoreland.    | 62.00   |
| 3.     | D. J. Shyne, Frankfort.        | 55.00   |
| 4.     | S. O. Cox, St. Joseph, Mo.     | 50.00   |
| 5.     | A. J. Martin, Frankfort.       | 39.00   |
| 6.     | Geo. McHugh, Blue Rapids.      | 47.50   |
| 11.    | Geo. McHugh.                   | 53.00   |
| 15.    | A. C. Lobaugh, Washington.     | 49.00   |
| 18.    | Walter Hildwein, Fairview.     | 49.00   |
| 22.    | Herman Gronniger, Bendena.     | 81.00   |
| 24.    | Herman Meyer, Washington.      | 50.00   |
| 26.    | Geo. McHugh.                   | 47.00   |
| 27.    | L. O. Cox.                     | 42.00   |
| 30.    | Ed Thompson, Marysville.       | 34.00   |
| 31.    | A. R. Rystead, Mankato.        | 47.00   |
| 39.    | W. L. Miller, Blue Rapids.     | 34.00   |

### Thisler's Percherons.

O. L. Thisler, regular advertiser in Kansas Farmer, has for sale at his barns at Chapman, Kan., 12 head of first class registered Percheron stallions in age from 2 to 5 years old. These stallions are of splendid Percheron type and have received the care and feed that should assure their future usefulness as breeders. Mr. Thisler also has for sale eight good mares, with splendid bone and good scale. Parties wanting mares or stallions at reasonable prices, close to home, should write Mr. Thisler at once.

### The Enid Business College.

Among the other evidences of prosperity and growth shown by the Enid Business College of Enid, Okla., we note the recent marriage of its founder and president, Prof. J. E. George. The local paper speaks of Prof. George and his new wife as being very popular, and this is only a reflection of the esteem in which the business college, of which Mrs. George is now the head, is held.



Here is one of the horses Watson, Woods Bros. & Kelly Co. of Lincoln, Neb., sell—the "ton and over kind." This firm imports these big fellows in such large numbers they can sell them at small profits. They have 100 of them in their barns at this time. You had better hurry to Lincoln and select a horse. The buyers are flocking in and always take a horse back home with them. If you can't possibly get away at once, send for their catalog. It will help you decide.

### Gronniger's Annual Bred Sow Sale.

Herman Gronniger & Sons will hold another of their good bred sow sales at the farm near Bendena and Denton, Kan., on Thursday, February 23. The writer recently visited the Gronnigers at the farm and inspected carefully the offering for this sale and talked over with Mr. Gronniger and the boys the individual merit of the different animals that have been selected for the sale. It is always a real pleasure to make these trips, for in the Gronniger firm there are no silent partners. Every boy knows the business from A to Z, and every one of them takes the liveliest interest in the business. And when it comes to selecting a draft for sale there is something doing. There are so many good ones in the herd and each member of the firm has some favorites that he would like to keep in the herd. But there are hundreds to select from, for the Gronniger herd is one of the very largest in the state. So Herman Gronniger and the boys are cataloging this year 65 head that are in reality the best they have ever put in any sale. As they say in their advertising, "It takes good ones to attract buyers." So they have rather reluctantly picked out 10 tried sows that they all say should stay in the herd. Then there are 30 fall yearlings that include individuals that are as good as ever went through a sale in Kansas; 10 spring gilts selected from a large bunch. Everything bred for early farrow to the following good boars: Big Hadley's Likeness, Banner Boy, Exalter by Expansive and Defensive by Defender. Gronnigers have bought stock the past season from all of the best breeders, so this sale includes a great variety of big type breeding. Included are sows and gilts by Colossus, Blain's Wonder, Grant's Quality, Big Hadley, Major Bob, Big Hadley's Likeness, Gold Metal and many other sires noted for size and smoothness. This offering will please the most exacting. Get catalog early and study it well. Never fear, the individuality will match the good blood lines. Put this sale on your list as one to attend.

The A. I. Root Co., Medina, Ohio, will be glad to send you full particulars about beekeeping; how to get started, and how to make money out of it. They have an ad in this paper.

J. H. Hamilton & Son, Guide Rock, Neb., sold 33 head of bred sows at Guide Rock on January 28 for a little over \$1,400. The average was \$45 on the offering as sold. There was a good crowd of breeders present. H. C. Dawson of Endicott, Neb., topped the sale, paying \$100 for No. 7 in the catalog. A. R. Rystead, Mankato, Kan., was a good buyer. Below is a list of the principal buyers:

|        |                                         |          |
|--------|-----------------------------------------|----------|
| No. 1. | A. R. Rystead, Mankato, Kan.            | \$ 75.00 |
| 2.     | H. C. Dawson & Sons, Endicott, Neb.     | 65.00    |
| 3.     | Ed Shear, Red Cloud, Neb.               | 45.00    |
| 4.     | Thos. F. Walker & Son, Alexan dra, Neb. | 41.00    |
| 5.     | A. M. Wachter, Riverton, Neb.           | 70.00    |
| 6.     | A. R. Rystead.                          | 70.00    |
| 7.     | H. C. Dawson & Sons, Endicott, Neb.     | 100.00   |
| 8.     | Barber & Son, Franklin, Neb.            | 62.00    |
| 9.     | Ed Curry, Guide Rock.                   | 61.00    |
| 10.    | C. C. Ingram, Bloomington, Neb.         | 39.00    |
| 11.    | Madison Sage, Superior, Neb.            | 51.00    |
| 12.    | S. Beaver, Oak, Neb.                    | 56.00    |
| 13.    | T. J. Charles, Republic, Kan.           | 45.00    |
| 14.    | Ed Shear, Red Cloud, Neb.               | 48.00    |
| 15.    | W. A. Wachter, Riverton, Neb.           | 55.00    |
| 16.    | A. C. Lobaugh, Washington.              | 50.00    |
| 17.    | A. R. Rystead.                          | 46.00    |
| 18.    | O. E. Abbey, Coles, Neb.                | 22.00    |
| 19.    | Wm. King, Red Cloud.                    | 27.50    |
| 20.    | C. O. Calvin, Superior, Neb.            | 33.00    |
| 21.    | J. W. Hutchinson, Esbon, Kan.           | 45.00    |
| 22.    | Wm. King, Red Cloud.                    | 35.00    |
| 23.    | Joseph Crow, Guide Rock.                | 27.00    |
| 24.    | Joseph Lambert, Smith Center.           | 21.00    |
| 25.    | O. E. Abbey.                            | 27.50    |
| 26.    | Guy Barnes, Red Cloud.                  | 27.50    |
| 27.    | Guy Barnes.                             | 27.50    |
| 31.    | E. S. Fitch, Red Cloud.                 | 48.00    |
| 32.    | E. Kirkpatrick, Guide Rock.             | 48.00    |
| 35.    | Joseph Crow, Red Cloud.                 | 46.00    |

### Percheron and Poland China Sale at Hiawatha, Kan.

On Friday, February 17, John D. Ziller of Hiawatha will make a sale of Percheron horses and Poland China bred sows. The horses, which comprise three stallions, one mare and one gelding, are all sired by imported stallions and their dams are all pure bred but unrecorded. There will be one handsome 3-year-old black, perfectly sound and weighing a ton. The other stallions

are 2-year-olds, big, heavy boned fellows weighing 1,600 or better, both blacks and good individuals. The mare is a very choice steel gray, sound, and weighs 1,700 pounds, and is in foal. She is 4 years old and a very choice mare. Then there is a big, handsome gelding, also a steel gray and 4 years old, which weighs 1,750. The hogs consist of 25 good, big, promising spring gilts, two tried sows and 20 choice fall pigs, mostly gilts. The tried sows and spring gilts are all bred for spring farrow to the bears, King Sunflower 57935, Herman's Hadley by Big Hadley's Likeness and Chief Goldust Tecumseh by Chief Goldust 39244. The spring gilts are nearly all sired by Hadley Chief by Big Hadley, Jr., he by Big Hadley. Ten are by Sunflower King, he by Highland Prince. The dams of the offering all trace back to big well known sires and the entire offering will be a good, useful one. The sale will be held in the pavilion in Hiawatha and the horses sold first. Mr. Ziller suggests that buyers from a distance should come the day before if possible. Write at once for catalog.

### Amcoats Sells Shorthorns February 21.

One of the important live stock events of the winter for central Kansas will be the Shorthorn sale to be made by Mr. S. B. Amcoats at his farm near Clay Center, Kan. The date is Tuesday, February 21. Mr. Amcoats has listed for this sale a draft of as good, useful money-making Shorthorns as will go through the sale ring in Kansas this year. Mr. Amcoats has been breeding his favorite herd of cattle for a number of years and has always been counted one of the most careful and judicious of buyers. Last summer, with his usual good judgment and foresight, he purchased at one time the entire Gifford herd, consisting of about 30 head of strictly tops, the kind that 35 years of effort can produce. Mr. Gifford had for some time been reducing the size of the herd, but all the time clinging to the choicest individuals and steadfastly refusing to price them separately. So when the opportunity came, Mr. Amcoats acted quickly and wisely and came into possession of a herd second to none in the entire state. As a result of this purchase, Mr. Amcoats finds it necessary to make his first public sale. Included in this sale will be something like half of the herd recently purchased from Mr. Gifford. The offering of 35 head will consist of nine bulls of serviceable age, 16 cows with calves at foot and a part of them bred again, and nine 2-year-old heifers. The bulls are all dark reds, very blocky and in fine breeding condition. They are by Mr. Amcoats' previous herd bull, Scottish Archer, and Gifford's Lord Marr. The dams of these young bulls are just the kind of cows to produce bulls of this kind. Among them are daughters of old Red Knight, the bull that made the Gifford herd famous. Every one of the bulls have several Scotch crosses and one September yearling is of Pure Scotch breeding, a full brother to the bull that topped the Gifford sale last winter. His dam is an Orange Blossom cow and one of the best breeding cows in the herd. Another outstanding bull is one by Lord Marr and out of a Red Knight cow. This bull was shown and won good premiums at local fairs the past season. Seven of the females, five cows and two 2-year-old heifers, are pure Scotch. In the sale are three daughters of Red Knight, two of them have calves at foot and all of them have sons and daughters that are older included in the sale. The 2-year-old heifers are by Lord Marr and Scottish Archer, and several older ones by Senator Bruce, the bull noted as a sire of good females. The calves are all by Lord Marr and Scottish Archer and the cows and heifers are nearly all bred to Mr. Amcoats' herd bull, Whirlwind, by Captain Archer. Whirlwind is said to be one of the very best if not altogether the best calf ever sired by this great bull. The cows in this herd are and have always been great milkers. Mr. Amcoats in making his first sale has gone into the herd and selected some of the very best cows and heifers, it being his ambition to put up an offering at his first sale that buyers would appreciate. Catalogs mailed upon request. Mention Kansas Farmer when writing.

### Hamaker Poland Chinas at Auction.

Friday, February 24, G. S. Hamaker will hold his annual Poland China bred sow sale at the farm, one mile west of Pawnee City, Neb. He will sell 45 head of the Hamaker kind, which means that they will be big, roomy and broody. There will be six tried sows and 40 spring gilts. In selecting the tried sows Mr. Hamaker has gone into his herd and selected the six head, intending to make a fair division and give to the breeders attending this sale a chance to buy just as good sows as were ever in his herd. Included in this pick are two daughters of Big Hadley, both excellent individuals with dams by the brood sow sire, King Do Do. The other four are all good ones and daughters of noted boars, such as Johnson's Chief. The gilts are a very uniform lot and all sired by Growthy King and Look Grand, two of as good boars as can be found in any one herd in the West. Growthy King is a very large hog and noted for his great feeding qualities and his ability to transmit them to his offspring. He was sired by Long John and is a litter brother to Long King's Equal, making him a grandson of the noted boar, Big Price. His dam was of the famous Giantess family, so as far as big blood lines are concerned there seems to be nothing wanting in the pedigree of Growthy King. Look Grand is the Chapman boar that continues to breed the uniform, highly finished, strong limbed kind, just as he has always done. The old sows and a part of the gilts are bred to these boars, the rest to Mr. Hamaker's young boar bred by Peter Mouw. The gilts have the quality and size, and will weigh around 325 each by sale day. Write for catalog and spend a day attending this sale.

### Big Poland China Bred Sows at Mankato, Kansas.

A. R. Rystead of Mankato, Kan., is cataloging 35 head of his big Poland China sows and gilts and will hold a bred sow sale at his farm near town on Tuesday, February 21. The offering is a good one and merits the attention of the best farmers and breeders in the territory. The offering has been carefully selected and will be bred for spring farrow to Mr. Rystead's herd boars, O. K. Hutch and Commander 2d, a pair of as good big type boars as can be found anywhere. The offering consists entirely of big type breeding. Mr. Rystead has been a good buyer at several of the best sales where this type was dispensed, and always bought at good prices and bought both breeding and individuality. Included in the sale are sows sired by Colossus, Captain Hutch, O. K. Hutch, Patterson's Perfection, etc. They are out of big dams sired by such boars as Bell Metal and What's Ex. There will be 10 big strong, stretchy fall gilts and 25 selected spring gilts. Write at once for catalog and attend the sale if possible, and if unable to attend send bids to fieldmen or auctioneer.



**George Smith's Mammoth Hadley Sow Sale.**  
On Wednesday, February 22, Kansas and Nebraska farmers and breeders will have another opportunity to buy at their own price another choice lot of Mammoth Hadley gilts, the kind that have proven such attractions at Mr. Smith's former sales. Mr. Smith is cataloging for this sale 30 good gilts and 10 tried sows and fall yearlings, all bred for March and April farrow to Mammoth Hadley, Grand Model by Look Grand and a good son of O. K. Chief. One of the tried sows and all of the fall yearlings are by Mammoth Hadley and the spring gilts are by Mammoth Hadley and Grand Model. Five of the fall gilts are out of an extra good producing sow, a daughter of Royal Chief 31039. In laying the foundation for his sow herd Mr. Smith used splendid judgment, buying liberally from the best breeders of strictly big type sows, and these sows and their descendants are the dams of the offspring. Mr. Smith, by the selection of good boars, has improved the herd with each successive cross, and this offering, although sold in moderate flesh and with but little fitting, will be his best offering. Among the old sows in the sale are sows by such boars of note as Johnson's Chief, O. K. Price, Look Grand, Prince You Tell, Chief Goldust, Growthy King, Pender's Giant Pride and old First Quality. Among the good gilts are five out of a Big Hadley sow and sired by a son of Big Major, he by Major Blain. Mr. Smith is located six miles southeast of Burdard, nine miles south of Pawnee City, Neb., and seven miles northeast of Summerfield, Kan. He has prepared a catalog which gives complete breeding, together with descriptive notes of the different individuals that go into the sale. This catalog is free and will be sent upon request.

**Jones Bros. Herefords at Auction.**  
The catalogues of the Jones Bros. Hereford sale at Council Grove, Kan., are now ready for mailing, and will be sent upon application. This offering of 23 excellent young bulls and 45 cows and heifers is strictly high class, and because of the number as well as their quality and breeding will afford an exceptional opportunity for buyers. The bulls range from 12 to 24 months old. All but one are 20 months old or over. The only younger one is an exceptionally good 11 months calf by Dandy Andrew. All these bulls are growthy, have been handled right, and are in good flesh. They have good heads and horns, good coats, and comprise altogether one of the best lots of bulls to be sold this spring—and the largest lot of bulls of their age in any sale. The females were calved in 1907, 1908 and 1909—only a few being of 1909 calving. All are safe in calf to the herd bulls, Lincoln 7th, Simpson, Dandy Andrew, Beau Mandarin 2d or Pistagua Exchange. For smoothness of character and breed type, these heifers will commend themselves to any Hereford breeder. This is one of the best chances this spring to buy good reliable breeding cows of approved popular pedigrees. Every animal in the sale was bred by Jones Bros., and this offering is made partly to acquaint breeders generally with the type and quality of cattle they have been producing. These 68 head are the tops of the seasons crops for their ages. Read the advertisement of the sale, and send for a catalogue, mentioning Kansas Farmer. Pictures of the herd bulls will be sent free upon request. These are large half-tone reproductions printed on good enamel paper suitable for framing.

**Holbert's Big Stallions.**  
A. B. Holbert, who manages the Kansas branch of the Holbert Importing Co., of Greeley, Iowa, is located at Lawrence. This is one of the oldest and best known importing companies and their Percheron and Belgian horses have a widespread reputation. No firm stands higher in Iowa and Kansas people are to be congratulated upon the fact that they have opened a branch barn at Lawrence and stocked it with choice young stallions of both breeds. Write Manager George Robertson at Lawrence and tell your wants. Better go and see the horses, though. Be sure to mention Kansas Farmer when you write.

**Shorthorn Herd Bulls.**  
With this issue John Regier of White-water, Kan., is starting an ad for his Shorthorn cattle. At the head of the Alfalfa Leaf herd of Shorthorns is a grand son of old Choice Goods. This promising young bull is Good News, got by New Goods by Choice Goods and out of one of the best sows in the Harriman Bros' herd. Mr. John Regier today has one of as good herd of breeding cows as is known of in Kansas, and bred to such a promising bull as Good News should produce some valuable crosses. Mr. Regier is offering for sale two extra good young bulls that are good enough for herd headers both from breeding and as individuals. Please look up advertisement and write for prices and description. Mention Kansas Farmer when you write.

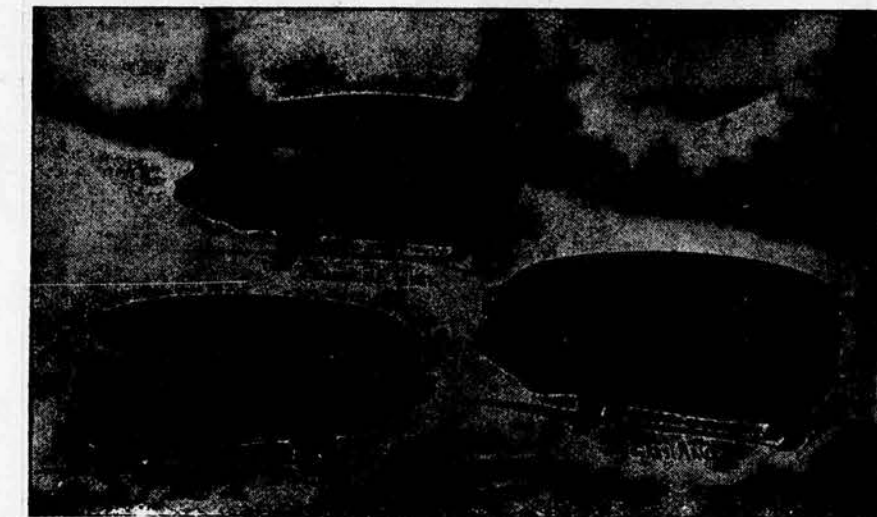
**Ward Bros. Bred Sows Average \$47.50.**

Ward Bros. annual Duroc Jersey bred sow sale held at Republic, Kan., January 31, was well attended by farmers and a number of leading breeders. The 43 head of cataloged animals that were sold averaged \$47.50. H. B. Miner of Guide Rock, Neb., topped the sale at \$100, buying the great sow, Cherry Girl by Cherry Boy, Col. John Brennan made the sale, assisted by Col. Hoyt. Following is a list of representative sales:

|                                            |
|--------------------------------------------|
| 1. H. B. Miner, Guide Rock, Neb., \$100.00 |
| 2. H. B. Miner, Guide Rock, Neb., 96.00    |
| 3. W. E. Monasmith, Parnassia, Kan., 70.00 |
| 4. Geo. Cavanaugh, Belleville, 49.00       |
| 5. Geo. Hammond, Manhattan, 77.50          |
| 6. P. H. Padgett, Beloit, 60.00            |
| 7. F. F. Twineham, Hardy, Neb., 47.50      |
| 8. Tom Vandever, Republic, 57.00           |
| 9. E. E. McClure, Republic, 43.00          |
| 10. W. E. Monasmith, 43.00                 |
| 11. Chris. Whitney, Agra, 86.00            |
| 12. P. H. Padgett, Beloit, 87.00           |
| 13. John Danielson, Clyde, 46.00           |
| 14. Glen Kreecker, Washington, 49.00       |
| 15. Tom Vandever, 39.00                    |
| 16. John Angle, Courtland, 37.00           |
| 17. Chris. Whitney, 75.00                  |
| 18. Geo. Phillips, Esbon, 65.00            |
| 19. Riehart & Son, Smith Center, 47.50     |
| 20. Pat Berry, Rydal, 42.50                |
| 21. Grant Chapin, Green, 65.00             |
| 22. P. H. Padgett, 40.00                   |
| 23. Andrew Bissell, Republic, 45.00        |
| 24. E. E. McClure, 38.00                   |
| 25. Leon Carter, Asherville, 35.00         |
| 26. Geo. Meade, Republic, 34.00            |
| 27. S. J. Henry, Belleville, 38.00         |
| 28. Tom Tipton, Jamestown, 31.00           |
| 29. Bert Fisher, Manhattan, 30.00          |
| 30. C. W. Yager, Republic, 28.00           |
| 31. Tom Tipton, 31.00                      |

**Poland China and Angus Cattle Auction.**  
Collins & Hansen, pure bred Poland China breeders of Abilene, Kan., will hold a bred sow sale on Monday, February 20. The sale will be held at the ranch, seven miles from Abilene and about the same distance from

Solomon and Talmage. The offering is to be a first class good one and will include 20 of the great tried sows that have been doing so much in the herd, but it is desired to put in individuals that will attract buyers from away, so the herd has been drawn upon for sows that by good rights should remain where they are. Included are three daughters of the noted boar, Highland Chief, Jr., a prize winner wherever shown. The dam of one of them traces in C. M. Garver's great white foot family; six daughters of Stem Winder, a boar formerly owned with so much pride by Mr. Garver. These sows are very uniform and splendid individuals. A couple more are by Broad Gauge Chief, a good son of the high priced boar, Lail's Grand Chief. The dam of Broad Gauge Chief was Mr. Lail's noted sow, Broad Hammed Sallie. These sows will be sold bred for spring farrow to the big herd boar, Monarch by Expansion, dam Chief I, making him a line bred Expansion boar. His brother was first in class at St. Joe last fall. All of the gilts are by this boar and will be bred for spring litters to a couple of young boars, grandsons of Bell Metal and Lail's Grand Chief. There will also be seven very choice young Aberdeen Angus bulls sold in age from 18 to 24 months, good individuals and all sired by the show bull, McDonald Lad, a winner at Chicago International, Kansas City Royal, as well as several state fairs. The herd boar, Monarch, will be offered privately sale day. Write for catalog of this sale and plan to attend.



Trio of R. D. Martin & Sons' prize winning Durocs, 1909. Bred sows and bred gilts for sale. Priced \$30 to \$50. See ad on other page and write your wants. Mention Kansas Farmer.

**Milligan Sells Bred Sows February 22.**  
Kansas Farmer readers that are in search of the good, medium kind of easy feeding, quick maturing Poland Chinas should be interested in W. C. Milligan's bred sow sale to be held at Clay Center, Kan., Wednesday, February 22. Mr. Milligan has for several years been a very successful breeder of Poland Chinas and has upon different occasions contributed to good sales held at this place, but this is in reality his first sale. Mr. Milligan is one of the breeders with courage enough to breed the kind he likes, regardless of pedigree. In other words, the bugaboo "hot blood" or the ever ready objection about the big coarse kind, never appeared to him. Mr. Milligan believes in mating the well finished kind with the large type, thereby breeding size and quality. A big lot of the gilts in the sale are sired by Perfect Mischief by Mischief Maker. Perfect Mischief is a good sized, highly finished boar and breeds these qualities to a marked degree. Other gilts in the sale are by the great boar, Voter, and other good boars. The tried sows are daughters of Phil 2d by Philanthropist, he by Expansion. The females in the sale are in pig for early farrow to Perfect Mischief, Voter and Big Victory, a young boar of massive proportions and large bone. He was bred by R. J. Peckham of Pawnee City, Neb. Sows with the quality of Mr. Milligan's mated to a boar like Big Victory should produce litters with lots of finish and all the size necessary. The sale will be held in town under cover and will be held regardless of the weather. Catalog will be sent upon request.

**Nebraska Wonder and King of Cols. Sow Sale.**

About the best chance of the season to buy Duroc Jersey sows, combining the blood of Nebraska Wonder and King of Cols., will be at the Morgan & Kaump sale to be held at Blue Rapids, Kan., on Monday, February 27. The sale will be held at Mr. Morgan's farm adjoining town and will be under cover. There will be 50 head in the sale, 10 of which are fall yearlings; the remaining 40 spring gilts, all bred for spring farrow to the boars, Welch's Wonder by Walnut Wonder, his dam by Kansas Wonder; Blue Rapids Col. by King of Cols. 2d, and Carter's Golden Rule by Golden Rule Special, he by Pearl's Golden Rule, one of the highest priced boars of the breed in this part of the country. All of the fall gilts were sired by King of Cols. 2d and G. C.'s Col., and mostly out of Model Chief Again sows. They are large and smooth and developing into elegant brood sow prospects. The spring gilts include 10 by old Nebraska Wonder, a boar that has improved the breed as much as any sire ever owned in the West; 10 by Welch's Wonder, four by a good son of Tatarrah and practically all the rest by Chester Thomas's great boar, Queen Col., sired by King of Cols. 2d and out of Mr. Thomas's noted sow, Crimson Queen. Queen Col. is one of the best big, smooth boars living and has been pronounced by some as being the best boar King of Cols. 2d ever sired. Messrs. Morgan & Kaump will present the offering in nice breeding form and will appreciate the presence of breeders and farmers, whether as buyers or visitors. Write at once for catalog, mentioning Kansas Farmer. If unable to attend bids may be sent to Jesse Johnson, representing this paper.

**Sparks' Polands.**  
Jacob Sparks of Stanberry, Mo., is the owner of a Poland China herd that has attracted the attention of many of the successful breeders throughout the country during the past year. Although he is comparatively a young breeder he has succeeded in breeding up a remarkably fine herd which is made up of representatives of the best and most popular Poland China blood lines. His sales during 1910 were among the best reported from any section of the corn belt. A number of his best sows have

been bred for February farrow, and if nothing prevents, he will have a fine lot of early pigs to offer in his October, 1911, sale. These will be carefully selected and none but first class animals offered. Keep your eye on this herd.

**Harter's Big Poland Sow Sale February 16.**  
J. H. Harter will hold his annual bred sow sale at the farm, a few miles from Westmoreland, Blaine and Postoria, Kan., on Thursday, February 16. Mr. Harter is so well and favorably known and his hogs have such a well deserved and established reputation, that it would seem almost unnecessary to say anything concerning them. All that is necessary is to announce that a sale is to be held by this good, honest and successful breeder. But we must say to our readers that Mr. Harter finds it necessary to buy some new blood in order to supply his customers another year, so in order to make room for those that he will buy he is putting into this sale 10 tried sows that he has over and over again said would never be for sale. Understand these are not old worn out sows, but sows just in their prime and sows of proven worth as breeders. These sows include daughters of Expansion, Silver Chief and other like sires. Then there are 10 fall yearlings which are a little better than Mr. Harter has ever before been able to put up for sale. These were sired by Mr. Harter's great boars, Mogul's Monarch and Captain Hutch, a pair of outstanding, good, big boars. They both breed great, strong backs with that size that all good,



profitable hogs must have. One good fall gilt is by the noted big boar, Gold Metal. The spring gilts, of which there are 30, are mostly by Mogul's Monarch and Captain Hutch; others by Colossus, Prince Hadley, Ross's Hadley and other good boars owned by Kansas breeders. The spring gilts are the big, stretchy, promising kind, not a bad one in the lot. A couple are by Defender and two by Big Bone Mow. The offering will all be in pig to Mr. Harter's boars, Mogul's Monarch, Captain Hutch and Blain's Sufficient, a grandson of Blain's Wonder. Write and get a catalog of this sale and make your plans to attend or send bids.

**Western Duroc Jersey breeders will readily recognize the likeness of Grant Chapin, Green, Kan. Mr. Chapin is one of the best known of all Kansas breeders living west of the Mississippi. Mr. Chapin says the**



offering that goes into their February 14 sale is the best ever included in one of his sales, and he has made some mighty good sales.

**Needed on the Farm.**  
A new booklet received from the Carbolineum Wood Preserving Company 518-520 Prairie street, Milwaukee, Wis., deserves, we believe, the attention of every reader who is not now using the valuable preparation referred to. Many of our readers have written, expressing the utmost satisfaction from its use. This is a preparation of high virtue, not only for the preservation of wooden structures, posts, poles, etc., but also as an insecticide and protector of vermin of many descriptions. Chicken lice and mites cannot exist where it is used, and for this purpose alone Avenarius Carbolineum is entitled to still wider sales, even than the very extensive sale it now has. We strongly advise our readers to send for the above mentioned booklet.

**Valley Springs Percherons.**  
Mr. Hendershot writes us saying he has an extra good lot of both imported and home-bred stallions and mares to offer prospective buyers. He is offering the choice of his three imported stallions, Imp. Gateau, Galbanum and Bonhomme, all doing service at the Valley Springs Stud the past season. A rare opportunity to get one of the best of the breed to head your stud of registered Percherons. Write for description and breeding, mentioning this paper.

**Buy Wagons Direct From Factory.**  
The wagon jobbers and retail dealers feel the loss of the business on "Old Horry" and Tennessee wagons more than they should lose the business on any other make of wagon manufactured, simply because they have hitherto sold more of them in the aggregate than any other. They have always been able to get the best prices for them, and they have always satisfied their customers. For the same reason it is of the greatest benefit to farmers and all users of these wagons for this particular company change over to a policy of selling direct. It will save the wagon users many hundreds of thousands of dollars every year by cutting out the profits that the jobbers and dealers make and by avoiding the expense of traveling salesmen, collectors, blockmen, etc. These extra profits and needless expenses which are added to every wagon sold through a jobber and dealer amount from \$10 to \$30, according to the size and style of the wagon and locality in which it is sold. Consequently the Kentucky Wagon Manufacturing Company announce that they will save farmers who buy wagons an average of at least \$20 per wagon. As there are about 500,000 wagons sold annually in the United States, a saving of \$20 on each of them would amount to ten million of dollars every year. We are carrying the advertising of the Kentucky Wagon Manufacturing Company in our columns and are particularly pleased to be able to present such an attractive proposition to our readers, who will doubtless find in this issue their personal announcement, and we wish to state here from our standpoint, that any one in need of a wagon should most certainly write for their book and prices. Any one interested may have this book by sending a request to the factory, stating that this announcement was noticed. Advertisement on page 2.

**Kansas City's Big Catalog House.**  
Many of our readers do not realize that Kansas City, Mo., is carried a tremendous large and varied stock of general merchandise of all descriptions. This is, however, the case. Not long since the writer of this article visited this huge establishment and was considerably astonished to find such an imposing quantity of high class goods, all at prices that mean a saving much worth while to every customer who trades there. These goods are sold only by mail to out-of-town customers. Nowhere can better goods be found, and in few, if any places, can better prices or quicker deliveries be had. The consideration of quick delivery is an important one. Few points in Kansas or in adjoining states are more than a few hours distant by mail from Kansas City. Train service is operated to facilitate movement of goods from the city, so the Kansas City shipments reach destinations reasonably quick. The Jones-Post Co., whose advertisement is on another page in this paper, have fresh goods in greater quantities than ever before. Their new catalog is much larger than in previous years. Every reader of this paper should have this catalog in the house, because having it and studying it will mean the saving of many dollars in the course of a year on merchandise, which every one must buy sometime and from somewhere. Look up this large advertisement and send your name for the big, new catalog, which will be sent you postpaid mail.

**Wonderful Growth of the Lincoln Motor School.**  
Last spring the Lincoln Motor School was established in Lincoln, Neb., in a small room on North Ninth street. In the fall the school moved to larger quarters at 1534 S. street, and now they have outgrown the second location, and are splendidly installed in a new and permanent home, 2346 O street. Here we have more than 7,000 square feet of floor space, where we will be equipped to give men, and young men, the best possible automobile training. This school is favorably known far and near. Scholars have enrolled from eastern states, Pennsylvania, Ohio, Illinois, many come from the North, South and West. Of course, the greater number enroll from Nebraska, Kansas and adjoining states. The thorough practical instructions given at the Lincoln Motor School qualifies one to secure pleasant employment and good pay.

**Learn to Run Automobiles.**  
The Sweeney Auto School, 421 East 13th street, Kansas City, Mo., is an auto school of recognized merit. Any one can go to the school one week free and thus be assured of the value of the training the school gives before paying out one cent. It will pay any one interested in automobiles or any one who wants to qualify for an auto driver to write this school at address given above. The information they send out free is interesting reading and tells a great deal about autos and their use that is not generally known, even by the experts.

**Elkhart Vehicles and Harness.**  
Thousands of farmers in the past decade or two have saved money and got excellent buggies and harness by buying direct from the Elkhart Carriage and Harness Co., Elkhart, Ind. Many of our readers are now using the products of this company, and Kansas Farmer has never heard anything but praise for the goods and the treatment this company gives its customers. Get their catalog for this season, and you will be in position to supply your harness, buggy and wagon wants at considerable advantage to yourself. See their ad on page 43.

The Kansas Farmer is a noble clean paper. I could hardly do without it. I wish you would send me a few extra copies and I will see if I cannot get some more subscribers among my neighbors. I may tell you about my cattle some day.—S. E. Stoughton, Holstein Cattle, Route 4, Hutchinson, Kan.

**Fence Post Holes.**  
These are necessary on every farm. Don't break your back digging with a spade or a poor digger. Good diggers are easy to get. Their use means more accomplished in a day and more of the man left when the day is done. On page 47 of this issue is the advertisement of the Standard Earth Augur Co., 1228-A Newport avenue, Chicago, Ill. They have an excellent digger and will send you catalog free if you will kindly send your hardware or implement dealer's name.

**The Farm Pump Engine.**  
If you haven't yet taken the time or pains to learn about this wonderful little engine, do it now. Read the ad on page 47 and write for the engine books waiting to be sent you. They are a pretty liberal education in themselves, and cost only one cent to get them. Address Fuller & Johnson Mfg. Co., 2 Knight street, Madison, Wis.







Read the amazing special introductory offer to farmers and all owners of live stock everywhere. Send the coupon below and get \$12.00 worth of the finest, purest and best guaranteed goods free.



This magnificent Redwood Cabinet is 30 inches high, 20 inches wide and 5 3/4 inches deep. It is highly polished, showing the rich, fine grain of the giant Sequoia Redwood Tree. Cabinet is brass trimmed—brass hinges ornamental shape, brass spring, latch lock and brass spring inner lock. All of the Standard Veterinary Remedies in the cabinet are full size, guaranteed. Cabinet and remedies are free for sending the coupon below.

the coupon. One minute's work and a postage stamp brings this great Free Cabinet offer to you. We want you to test these goods and know what they are. That's why we make this astonishing offer. Send coupon and get these goods free in connection with our great special introductory offer, to test them at our expense.

# \$12.00 Cabinet FREE

This magnificent Redwood Cabinet is free and all of the Standard Veterinary Remedies you see in it are free with the splendid introductory offer we are making. You never had an offer like this before. It is the greatest offer ever made to introduce veterinary remedies to live stock owners of the United States everywhere. Hundreds of thousands of farmers are using the Standard line of goods. We want you to know how good they are.

## Our Guarantee:

We positively guarantee every article of the Standard line to be compounded of the purest, superior quality laboratory tested materials and according to the best formulas as proved by actual use on hundreds of thousands of farms throughout the United States in our twenty-five years of business. This is an absolute money-back guarantee. It means that we will refund the purchase price of every article manufactured by the Standard Stock Food Company that does not do all we claim for it when used according to the plain directions which are printed on every package. You never take any risk—you do not risk a cent when you purchase any article in the Standard line. All of the free goods we give away in connection with this great offer are given to you to introduce these superior high-grade goods.

## Use These Remedies

We want you to have these remedies so that you can use them on your animals. We want you to know—to convince yourself by using them—that they are the best veterinary remedies. We want you to know it. We give you this magnificent Redwood Cabinet, packed full of the remedies, so you can use this big lot of the remedies and prove to you they are the only kind of remedies you will ever want on your farm as long as you live.

## Send No Money

Be sure to send no money when you send the coupon. The cabinet and all of the goods in it are free. We give you the free goods and the cabinet to introduce the Standard line of veterinary goods to you. The goods are free to you on this big special introductory offer, and you are under no obligations.

## Special

This free offer is especially important to every man owns work horses, milch cows, hogs, sheep and poultry as well as for those who are fattening animals for market and stock breeders. In fact, this is the most sensational offer ever made to all owners of live stock of every kind. Every one of the free articles offered you here will make money for you. The time on this very special offer is limited. Send for coupon now.

## Free Cabinet Coupon

STANDARD STOCK FOOD CO.,  
Dept. 3982, Omaha, Neb.

Gentlemen—You may send me prepaid free certificate good for one Redwood Cabinet as described, filled with regular sized packages of Standard Veterinary Remedies in connection with your special introductory offer, all of the actual cash value of \$12.00. This puts me under absolutely no obligations whatever, and I am never to pay you anything at any time for these free goods or the Redwood Cabinet.

My Name.....

P.O..... State..... R. F. D. No.....

I own..... horses..... cattle..... cows..... hogs..... sheep..... Poultry  
Here is the name and address of the dealer where I usually buy my veterinary remedies, stock food, etc.

My dealer's name..... Town.....

# FREE

Yes, **FREE**—absolutely free to every live stock owner and all farmers—shipped free, a beautiful, highly polished, brass trimmed, Redwood Cabinet filled with **Standard Veterinary Remedies**. Shipped to you now free. Send us the Free Cabinet Coupon below. You need these free goods. Read the list. Here is the free list:

## List of FREE Goods

|                                              |   |   |               |      |
|----------------------------------------------|---|---|---------------|------|
| One gallon can Standard Stock Dip            | - | - | price, \$1.25 | FREE |
| One 2-lb. box Standard Horse Worm Powder     | - | - | price, .50    | FREE |
| One bottle Standard Stock Liniment           | - | - | price, .50    | FREE |
| One bottle Standard Colic Remedy             | - | - | price, 1.00   | FREE |
| One box Standard Veterinary Salve            | - | - | price, .50    | FREE |
| One box Standard Gall Salve                  | - | - | price, .25    | FREE |
| One box Standard Heave Powder                | - | - | price, .50    | FREE |
| One bottle Standard Pine Tar Extract         | - | - | price, .50    | FREE |
| One bottle Standard Spavin Paste             | - | - | price, 1.00   | FREE |
| One one-quart can Standard Fly Shy           | - | - | price, .35    | FREE |
| One one-half gallon can Standard Lice Killer | - | - | price, .65    | FREE |
| One box Standard Insect Powder               | - | - | price, .25    | FREE |
| One 5 1/2-lb. box Standard Poultry Food      | - | - | price, .50    | FREE |
| One 4-lb. box Standard Hog Worm Powder       | - | - | price, 1.00   | FREE |
| One Redwood Brass Trimmed Cabinet            | - | - | price, 8.25   | FREE |

Total cash value of free goods - - - - \$12.00 FREE

## \$12.00 FREE!

Examine the above list carefully. See the value of every article in the list! Actual value of the

goods in the list \$12.00. You get all this value and all the benefit of having these necessary remedies at hand by simply filling out and mailing

## Free Goods to Prove to You Their High Quality

The free goods you get in the Redwood Cabinet are the purest and finest, the best veterinary and poultry preparations on the market. We know that if you once use the best remedies on your animals you will never again be satisfied with substitutes and poor quality brands. The immense business of the Standard Stock Food Co. has been built on the results produced on animals on hundreds of thousands of farms throughout the United States in the last quarter of a century. Time has proved the superior quality of Standard goods. We sell on quality only. The lot of free goods we give you in connection with this great special introductory offer are all regular size packages. Every package is large enough to give goods a genuine test and prove to yourself that the quality is absolutely the highest on the market today.

## Only One Cabinet to Any One Person

This fine cabinet and the free preparations given only once to any one person. This is an offer for introductory purposes only. We give you these free goods to test. We give you the cabinet to keep the free goods in. We give you a particularly fine cabinet because many persons would like to keep the remedies in the house. Every member of the family will admire the cabinet. The women folks will probably want it because it is such a handsome piece of furniture. The cabinet is handsome enough to go in anybody's home. The cabinet is in keeping with the high quality of the goods that fill it. This amazing offer is limited. Act quickly.

## Send Coupon Promptly

the coupon or copy it on a letter or a postal, but send it now. You need every one of the preparations in the free cabinet. The dollar bottle of Standard Colic Remedy may save the best horse in your place any day. The dollar box of Standard Hog Worm Powder may save a good many hogs for you. The gallon of Standard Stock Dip may save all of your hogs, or your sheep, or perhaps a diseased cow. The box of Standard Insect Powder or Standard Lice Killer may add a good many dollars to your chicken profits. Every one of the 14 remedies you get free with the cabinet, in connection with this great introductory offer, is absolutely the best. You need every one of these articles. You need them every day. You can get them all free now in connection with this great limited offer—one time to any one person. Send the coupon now before you lay the paper down, because we want you to have these goods to test them.

STANDARD STOCK FOOD CO. Dept. OMAHA, NEB. 3982