

KANSAS FARMER

FOR THE IMPROVEMENT



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Why I Breed Standard Bred Horses

M. A. SMITH.

The question of whether or not it pays for the average farmer to raise a few standard-bred horses for his own use and for sale has led to much discussion pro and con, and we can scarcely hope to finally dispose of it this afternoon. It has been claimed that the successful breeding of trotting horses demands the oversight of an expert. This is true but the same thing holds good in all breeding ventures; whether we turn our attention to mules, draft horses, cattle, hogs, sheep or poultry, there are certain breeders that seem to be particularly adapted to handling certain kinds of stock and we note them as outstanding successes in their lines. A given amount of brains will succeed as well with one breed of horses as another, provided you like the business; if you do not like the standard-bred you will do well to keep away from him, for you may depend upon it he will recognize in you an enemy the first time you enter his stall. His mental equipment is far superior to that of the coarser breeds, and the treatment generally accorded to the "slave" or work horse will not do for this equine aristocrat.

I believe every farmer could keep two or three good standard-bred mares most profitably. Mating them with the best stallion of the same breed within his reach, he could raise a foal or two each year, having a driving team that he and his family would be proud of and dispose of his surplus stock at very remunerative prices, for good drivers are now and for several years last past have been very hard to buy. \$1,500 to \$2,000 is no uncommon price for a good pair, and there are \$7,000 within 200 miles of here offered for two teams of a certain quality. This offer has been open for about six months and the orders are not yet filled. Is it not time that we turned our attention to raising the kind of horses that the people of wealth demand?

The Government recognized the shortage in this class of horses, and has for several years been establishing experimental breeding farms for the purpose of establishing a breed of American coach and carriage horses. After a thorough examination of the coach breeds of the world they selected their foundation stock from the Standard-bred and Morgan breeds.

Since the ultimate test applied to every kind of live stock is that of price, let us inquire into the matter and find upon what terms our Standard-bred horse exchanges for the horses of other countries. We find that our European neighbors have been giving particular attention to the development of the different superior breeds of draft horses. This effort to produce the best heavy horse dates back so far that the time can no longer be reckoned in years and decades, but centuries. The breeding of the draft horse was handed down from sire to son and on down through the following generations without a break. The laws of the countries and the disposition of the people were alike favorable to the establishment of breeds of domestic animals. To the eldest son descended the family estates, and with them the fulfillment of the plans of the father. Our leading breeds of beef and dairy cattle and our most popular breeds of hogs owe their existence to this custom. Under these most favorable

conditions the draft horse has reached his present degree of perfection. America, on the contrary, has never established a breed of anything except the American trotting horse. It is too newf and the ever-changeable spirit of the people gives no hope for better things in the future. In very few cases do you see a son taking up his father's work, and on this account all hope of permanency is lost. However, in a few decades of injudicious and haphazard breeding, the Standard-bred horse has made himself known the world over, not alone for his speed and gameness on the track,

but for his numerous good qualities wherever his lot may be cast. The development of extreme trotting speed is no less than wonderful. A creature that discards its usual mode of speedy locomotion and adopts another at the will of his trainer exhibits mental calibre that should be classed higher than mere instinct. Fortunately we Americans are not alone in the appreciation of our national horse. His worth is conceded by the trans-Atlantic breeders, who are today giving more for one good trotter than they receive for a whole ship-load of drafters. The market for

trotters is not confined to Europe, however; he is exported to every country in the world that has sufficient civilization to appreciate a first-class horse and money enough to buy one. He is capable of adapting himself to all circumstances, whether you find him holding the center of the stage at New York's greatest society event, the Madison Square Garden Horse Show, or winning gold and glory at a Grant Circuit Meeting, or laboring about the farm where the mule is his only successful competitor. He is the true all-purpose horse; if it is size you want, you may breed him large; if it is beauty, the handsomest horses of the world belong to this family; if it is speed, he is certainly there with the goods. Foreign horses, like foreign styles, will come, have their day and go again, but our own American trotter is here to stay. We are Americans, and so were our ancestors; it is the same with him. His history is closely interwoven with the history of the country. His ancestors landed with the Pilgrim Fathers, and together they conquered the wilderness and subdued their enemies. His relationship to the family of his master is so close as to be almost one of its members. What precious lives are entrusted to the fidelity of the family horse. Upon the night of the arrival of a new member of the family, it is never so dark or stormy that he does not bring the doctor with unerring instinct. As the baby becomes a child, a youth and then a man grown, he is associated more or less with horses, until at last he is conveyed by a pair of black trotters over the hill to his last resting place. The advent of the horseless age has been predicted from time to time, but the automobile does not seem to have any better luck putting the horse out of business than the mouse trap has had in regulating the cat to oblivion. I will read the following clipping from the New York Mail, entitled "Some Horse Facts:"

The horse is in no more peril of extinction by the automobile than he is of being driven into oblivion by the airship. So long as wheeled vehicles are used, either for business or pleasure, the horse will be depended upon to do the big end of the hauling. We are no nearer to the horseless age than we are to the manless age. The two creatures began business in partnership before the dawn of civilization and will continue together at the old stand down to the end of time.

"Consider the simple facts. The federal authorities in 1908 estimated the number of horses in the United States at 19,902,000, an increase of something like 1,000,000 over the year preceding. It was also pointed out that the business of horse breeding was becoming more profitable every year, and, taking that fact into consideration, experts estimate that the horses in the country at present number in excess of 20,000,000. There is no hint of the horseless age in these figures.

"Russia alone among the great nations has more horses than the United States, her horse population last year numbering upward of 29,000,000. Germany had 4,337,263 horses in 1907, the United Kingdom had 2,150,181 in 1908 and France had 3,163,025, the years in each case noted being the latest for which figures are obtainable. The

(Continued on page 5.)

OVERLOADED



It has been recommended, and a bill is now pending before Congress to increase the rate on postage for magazines and weekly publications. This increase in many cases would amount practically to a confiscation of the business, for many publications could not stand the increase.

The government has for years made the postoffice department the dumping ground for all others. It staggers under the useless and costly free seed foolishness. It takes care of the congressional franking privilege, which is as pernicious as it is unreasonable. In the end it faces a theoretical deficit which the Postmaster General attributes to the handling of second class matter.

The public as well as the publishers are entitled to know the facts in this case and your co-operation is needed. A letter from you to your congressman protesting this proposed unfair increase will aid materially.

Opportunities for Breeders of Dairy Cattle

Some Undeveloped Possibilities for Industrious Kansas Breeders

I believe if I can convince you of the many opportunities for profitable disposal of dairy cattle, I will have done more to accomplish my purpose, the production of more dairy cows, than will any scientific paper on the problems of dairying and breeding of dairy cattle.

My work is such that my opportunities for obtaining information regarding the demand for dairy cows is excellent. I want to tell you gentlemen of the Live Stock Breeders Association that that demand is truly surprising, within the past few months I am certain two-thirds of the dairymen about this city have asked me concerning the whereabouts of dairy cows that may be purchased. This scarcity of cows is not local, for these men are willing to go, and many of them have written and gone to outside points to supply their need for cows, but with no better success than was to be had at home.

At the International last month where a Kansas breeder carried off the grand champion and reserve champion prizes for the best two steers in the world, I heard your secretary say that he had never before known the demand for dairy cattle anything like as great as it is at present; that requests to know where dairy cattle might be secured were received almost daily at the office of the

FOURTEEN
KANSAS FARMER, and that he could place 30 car loads of good cows within the state at any time, but he did not know where a single car load was for sale.

Many of you must know from experience that it is next to impossible to buy good cows in your own neighborhood. It is so all over the state; it is so in Missouri, and in Nebraska, and in Iowa, while shippers tell us cows and heifers are much harder to buy in Illinois and Wisconsin than formerly and that prices are rising rapidly.

Now this lively demand for dairy stock is somewhat new, but it is not temporary, it is going to be lasting. There is an economic reason for the popularity of the dairy cow, and her supremacy in importance among the live stock of this section is inevitable. Her demand will be greater by the time you can breed up a herd than it is at present.

For years our leading agriculturists have been insisting on the building up of the farms, instead of allowing them to run down; on a greater production from a lesser area; on a more intensive and less extensive system of agriculture; but their advice has not received the attention it should, and the people as a whole cannot be said to have taken note of the diminishing public domain, and the increasing population, that is, the need of making the acres produce more than they have heretofore done, until the great railway magnate J. J. Hill recently so forcibly pointed it out to them.

A greater production from the same number of acres means we must keep up, and even increase the soil's fertility. To do this demands live stock, just as certainly as crops demand rain or cultivation. Grain farming impoverishes the soil; live stock raising improves the soil. He who sells a ton of wheat takes from his farm \$8.50 worth of fertilizer; a ton of butter sold removes only 50 cents worth of fertilizer. We cannot in this section consider the spending of a goodly portion or any portion of our hard earned cash for commercial fertilizers; we must rely upon live stock to retain the fertilizer on our farms. This matter of fertility is the great national conservation problem. The soil's fertility is the great natural resource. It is infinitely more important than our forests, and more difficult to replace when once lost.

If it is admitted, and I think it will nowhere be questioned, that we must perforce resort to live stock farming to conserve our soil fertility and at the same time meet the increasing demand for food products. Then if we must depend upon live stock why upon the dairy cow rather than the beef steer or the hog? Again there is an economic reason. Western Europe has long ago passed through the transition period that we are just facing and the beef steer is no longer thought of there; nor is hog raising as a business. It is too expensive, these animals are too wasteful for

high priced land. Land devoted to the production of beef, except veal or baby beef, or to the production of pork will not yield in human food what the same land will produce through the medium of the dairy cow. A few figures will demonstrate this beyond controversy.

Two pounds a day during the whole feeding period I know you will say is a good average gain for a steer. This would make the steer produce 730 pounds of beef in a year. I do not mean of course that you are to feed the same steer all the year, but 730 pounds of beef is a good gain, not the highest obtainable of course but a good gain for three steers in three different feeding periods of four months each. Now if our dairy cow produces only 7,000 pounds of milk in

a year and this is a very moderate return for a dairy cow, we have a right to expect more than this from a cow of the real dairy type. But if she produces 7,000 pounds of milk, this milk will average probably 14 per cent of total solids, this gives 980 pounds of solids as against the steers' 730 pounds of beef. To the further disadvantage of the steer be it remembered that of his 730 pounds total product only 30 per cent, or say 225 pounds are solids the rest is water, and of this 225 pounds there is considerable waste, a part is bone, a part is hoof, a part is horn, a part is tail which is nearly a loss as its food value is slight. On the other hand the 980 pounds produced by the dairy cow is all refined human food, there is no waste and it is easy of diges-

tion. This gives the cow more to her credit than four steers have to their credit, and it costs less to feed her than it does to feed one steer. The steer requires more concentrates to put him in prime condition and concentrated feeds are high priced. The time is coming in this country when we will not need grain to animals, corn, for instance, will be too valuable; it will be used for human food. Our animals must then subsist on coarser materials, for this the dairy cow next to the goat is preeminently fitted.

The hog cannot compete with the dairy cow in the production of human food for much the same reason that the steer fails. He is a somewhat more economical feeder than is the steer it is true but then he can handle less roughage and that is against him; besides his market value is subject to wide variations which do not occur in dairy products and then too the hog is prone to disease and losses from this source are frequent. He is a valuable adjunct to the live stock business but that is about all, in a land thickly populated.

It takes millions of cows to supply the dairy products of this nation and many millions more must be bred in the near future to supply the demand that is sure to exist when they are grown. Have you ever figured on the enormous number of cows that it takes to supply milk to our cities not to mention those required for butter? I have in my office a record of the number of cows in every herd supplying milk to Topeka and I get a fair idea of the changes in those herds. There are approximately 2,500 cows in these herds and I believe I am conservative when I say that it requires 800 new cows every year to keep up this supply. But few of these cows, probably not more than 25 per cent, are reared by Topeka dairymen. The man engaged in marketing whole milk will seldom raise any calves. He depends upon others for that and is willing to pay a good price even a big price to the man who does raise his calves. It requires 12,000 dairies and 120,000 cows to supply the 30,063 8-gallon cans of milk that Chicago uses daily.

The dairy cow is the most perfect machine ever produced for the conversion of crude material into refined human food. She has been known to produce 30 times her weight in human food in a single year. She occupies a unique position in the animal world; she has been termed foster mother of the human race. Her importance increases, as with advancing civilization the percentage of mothers unable to nurse their children increases. Milk is a quasi-necessity, not so necessary as air or water, but with bottle fed babies it is almost an absolute necessity and therefore approaches in importance to the human race air and water.

In addition to its great importance and wide use as a food milk is largely used in manufacturing; it is used in the sizing of felt and straw hats; in glazing paper; in glazing and finishing leather; in sizing silk, cotton and woolen goods; in the manufacture of wall paper and roofing paper, and linoleum, also in making cements, glue, putty, wood-fillers and paints. Imitation ivory balls and buttons are made of dried milk. The most lasting of the Roman structures were made of milk, lime and sand. The celebrated old mural decorations of Europe are nearly pure casein. Face creams and some other cosmetics have a basis of skim-milk and the choicest eggs are from hens fed Borman's condensed buttermilk.

As to whether to produce pure bred cows or grade cows you must decide for yourself. There is more profit in pure bred cows but you can begin the production of grades with less capital and for the inexperienced there is perhaps less opportunity for loss. But a pure bred bull and a good one you must have. The only way to economize in buying a bull is to get the very best one you can possibly afford. From the breeder's view point the bull is half the herd; \$150 is little enough to pay for a bull calf and \$400 invested in a bull will bring you greater returns if you have only 10 cows than will the same amount invested in a team of horses to work on your farm or to drive to your milk wagon.

HOLSTEIN-FRIESIAN CATTLE

That the Holstein cow is superior to all breeds as a dairy cow, I will endeavor to demonstrate. This breed of cattle originated in Holland, where they have been reared and kept for dairy purposes for hundreds of years. In that country the renter pays from \$100 to \$200 an acre cash rent. The Holstein cows pay this extortionate rent by producing great quantities of milk, cream, butter and cheese. It has long been conceded to the Holstein breed that they are far superior to any and all breeds in the production of milk and cheese, and it has been shown that the Holstein cow holds the world's butter record. There are two cows of the breed that have made official butter records of more than 35 pounds of butter in seven days. The Holstein breed is the only breed that is tested officially. The question might be asked, how are these official records made. In order to make these records we must procure a professor if we live in Kansas or in some other state the professor must be had from the State Agricultural College, whose duty it is to supervise the test by weighing and testing the milk, after which he is required to make an affidavit to the result or the amount of milk and butter this cow has produced. If there is a breed of the duel or all purpose cattle I would say the Holstein is the breed, but I do not believe in all the purpose cow or horse. We have the draft horse, the coach horse, and the roadster. Who ever read market quotations on an all purpose horse? Excuse me for side tracking on the horse. In cattle we have the beef breeds and the dairy breeds. What constitutes a dairy cow? It is the cow that converts her food into milk, butter and cheese. The beef breed will convert her food into beef. The Holstein breed has to its credit the world's record for butter, milk and cheese. They have been bred for 200 or 300 years for one special purpose, and that is the dairy.

By the results and records they have made, they most certainly are a success as a dairy breed. There are very few cows of the breed that are not more than an ordinary dairy cow. We consider that the milk from a Holstein cow is better milk for general use than milk from other breeds. The reason for this is the great amount of casein it contains. Physicians in the East recommend it very highly for children. I consider a cow that gives six gallons of milk a day and tests 3 per cent butter-fat far superior to the cow that gives three gallons of milk a day and tests 6 per cent butter-fat. We have in this case the same amount of butter from each cow, but from the six gallon cow we have three gallons of skim-milk a day extra, worth 30 cents or \$9.00 a month in favor of the six gallon cow, and the skim-milk is much better than from the three gallon cow. However, this is not a fair test as there are very few Holstein cows that tests as

low as 3 per cent, while in the other case the cows of any breed are very scarce that test 6 per cent. This breed of cattle grows very large, which we think is essential in a dairy cow, especially a large barrel. They have great capacity which is necessary to convert their food into dairy products. They are a dairy machine, the more good feed you feed them the better the results.

They are naturally very kind and gentle. I have bred Holstein cattle for the last 23 years and have had considerable experience with them. I have heard a great deal of talk about the color and that the calves won't sell. I can prove that it is a chronic disease, some people have. I have sold full blooded Holstein steers that were red and white along side of quarter blood Holsteins that were black and white, that the buyer would make a great howl on the quarter blood on account of its being Holstein, but the full blood was all right because he did not know it was a Holstein. I feel sorry for a man who can't tell a poor calf except by the color. The calves as a rule are very large, and grow faster than any calves I ever had anything to do with. I have had from 25 to 30 cows in the herd, weighed each cow's milk as she was milked, and placed the amount to her credit on a sheet of paper just back of her, and then tested the milk each month. The whole herd made an average test for the year of 3.9 and produced over 9,000 pounds of milk in a year for each cow. They are very persistent milkers. Frequently they can not be dried at all. I have had cows that would produce 3 and 4 gallons of milk a day, 90 days before the time for them to freshen, but I prefer to give them a rest of six weeks. I have had experience with the other dairy breeds, have had them in the same barns with the Holsteins, but I admire the large black and white cattle called Holstein-Friesian above all others.

I wish to call your attention to the official 7-day records that were made from Dec. 5 to Dec. 18, and recorded in the advance records, of which Malcolm H. Gardner of Delavan, Wis., is secretary. One hundred and twenty-two cows, of which one-half were heifers with first or second calves, produced in seven consecutive days 49,583.4 pounds of milk, equivalent to over 58 pounds of milk a day for each animal tested and an average of 16½ pounds of butter in seven days. Remember 122 animals of which one-half were 2 and 3 years old, and part of the balance 4 and 5 years old. These records are not an exception as similar records are being recorded from one end of the year to the other? What breed of cattle can approach these records? They cannot be disputed or doubted. They are made in almost every state in the Union. They are under the careful supervision of state agricultural colleges.—H. N. Hol-deman, Meade, Kan.

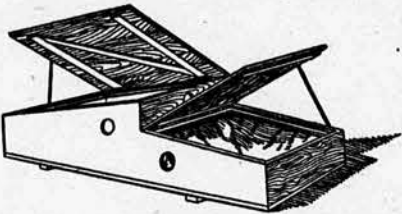
PUREBRED HOLSTEIN CATTLE

The world's record butter yield for 7 days, 30 days, 90 days and one year are held by purebred Holstein cattle. Holstein cattle will average better from every standpoint than any other breed. They average larger. They average healthier. They average less trouble. Here again are good reasons why you should consider the Holstein breed for your use. They will show you a 50 per cent profit on their food investment. Remember

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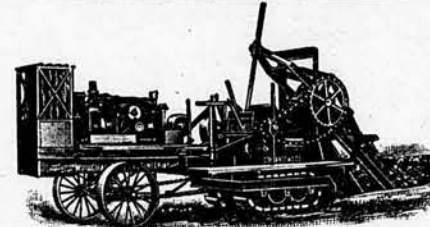
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WESTERN CANADA

What J. J. Hill, the Great Railroad Magnate, Says About Its Wheat-Producing Power

"The greatest need of this country (United States) in another generation or two will be the providing of homes for its people and producing sufficient for them. The days of our prominence as a wheat exporting country are gone. Canada is to be the great wheat country." J. J. HILL.
This great railroad magnate is taking advantage of the situation by extensive railway building to the wheat fields of Western Canada. Upwards of

125 Million Bushels of Wheat

were harvested in 1909, and the average of the three provinces of Alberta, Saskatchewan and Manitoba will be upwards of \$5 bu. per acre. Free homesteads of 160 acres, and adjoining pre-emption of 160 acres (at \$3 per acre), are to be had in the choicest districts. Schools, convenient, climate excellent, soil the very best, railways close at hand, building lumber cheap, fuel easy to get and reasonably in price, water readily procured, mixed farming a success. Write as to best place for settlement, settlers' low railway rates, descriptive illustrated "Last Best West" to Sup't of Immigration, Ottawa, Canada, or to the Canadian Government Agent, J. S. CRAWFORD, 23 W. 9th St., Nias City, Mo.

When writing advertisers, please mention Kansas Farmer.

Meat Problem.

If I can have space in your valuable columns to express a few thoughts from a farmer's standpoint, in regard to what Senator Bristow is reported to have said about the meat problem, I shall appreciate it very much. I think if Mr. Bristow fully understood the situation, on the farm, and knew the cost of producing meat at the present time and who are hit the hardest by the boycott methods he would see things in a different light.

I can express what I wish to say perhaps better by giving my own personal experience, which will illustrate the experience of stockmen generally. I own and manage an ideal farm of 560 acres in Labette county, Kan. Together with other stock I raise and feed cattle and hogs, mostly the latter. In former years I raised most of my corn and fed from two to three car loads of hogs a year. I could then hire all the help I wanted on the farm and at wages that I could afford to pay and still make a fair profit feeding for a much less price for our fat stock. Why can we not do so now? Simply because wages have advanced so much in the cities and towns that such a large per cent of the wage earners have left the farm it is a problem to get efficient help on the farm even at the advanced wages now paid. What is the result? Much of the land that is farmed does not receive the proper cultivation for the want of help, and thousands of acres in our country lie idle, producing nothing at all. I find no fault with the wage earner. His calling is as honorable as is that of the highest official of this land and he does not receive as much for it but why should we organize a boycott when the meat problem is regulated by the law of supply and demand, just as other products are? When feeders must pay 60 cents a bushel for corn they will either have to get their price for meat or quit business. All we farmers ask for is a little slice of the pie as it is passed around.

As a Republican I wish to sound a little note of warning. Kansas is an agricultural state and if our high officials will use their influence against the prosperity of the farmer and stockman, they should not be surprised if they hear from the latter at the ballot box when opportunity offers.—J. L. Windbigger, Oswego, Kan.

American Royal for 1910.

The champion car lot of fat cattle and the champion car lot of feeders will each win a prize of \$300 at the 1910 American Royal. This has been made possible by a vote of the directors of the Royal at their last meeting whereby they hung up a prize of \$150, on each car lot championship and this was immediately duplicated by the Union Stock yards company. The American Hereford Breeders Association offers a prize of \$500 on the same classes at the Royal provided the winning bunch happens to be Herefords. That ought to bring out the Whitefaces.

An Experience with Blackleg.

"A preventive for blackleg is to thoroughly mix 1½ pounds of pulverized saltpeter with ¼ quart of salt crystal. Crystal saltpeter will do if it is pounded up fine before mixing. Care should be taken to have the saltpeter evenly distributed through the salt. Place salt box with this mixture in it where the cattle can have free access to the box. Have used this mixture for 20 years with the best results. In all that time I have not lost any stock with blackleg as I have always bought calves each fall to winter and run on pasture the following summer. Have given the mixture a thorough test."—O. D. Simpson, Jennings, Kan.

Many people believe that the barn should be shut up tight in order to protect the stock during cold nights. This is true with modifications. Shelter is needed by all classes of stock in any inclement weather, but especially in the sudden changes which are likely to come at the end of winter. Animal heat is a factor to be reckoned with in the barn and the animals will be very comfortable if the temperature is kept at about 55 degrees, provided there is good ventilation. In arranging for ventilation be sure to see to it that no animal stands in a draft.

Better Farming

A John Deere Book
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KANSAS FARMER

EDITORIAL



"There is a vast difference between wishing and winning. Many a good man has failed because he had his wish-bone where his back-bone ought to have been."

If you do not own a fanning mill or grain grader, now would be a good time to secure one. Owing to adverse conditions during the past season it is not likely that you will ever need such a machine more than you do now in preparing seed for sowing. Such a machine is always valuable in preparing grain for market.

John Clay, president of Clay, Robinson & Co., the big live stock commission house of Chicago, lectured before the students of the Kansas State Agricultural College recently. This is the right sort of thing. Get the successful men of the day up to Manhattan once in a while and let the students hear them. It will do both good.

One explanation given of the high price of meat lies in the fact that everybody demands the high priced cuts. A visit to your retail butcher's will show that people of all classes in society ask for the best. This would mean that the butcher will lose on the cheaper cuts for which there is less demand and must make up this loss on the added price of the better cuts.

The last official statement of the United States Treasury Department shows that the total population of the United States is 89,763,000 and that the circulation of money is \$34.82 per capita. This is 18 cents smaller than it was a while back in spite of the fact that our money in circulation has increased in volume. The explanation is in the rapid increase in population.

The government reports show that the reports of farm products from the United States have grown from 150 million dollars in 1851 to over a billion dollars in 1908. Comparison shows that these exports have increased much faster than has the population. In the first year mentioned the value of the exports was \$5.35 per capita while in the last, it was nearly \$12. The bulk of these exports is made up of cotton, grain and grain products and packing house products.

There are now in attendance at the Kansas State Agricultural College a total of 1,940 students in the different classes. This is great but not great enough. We once heard ex-Gov. Glick make a speech in the old chapel in which he predicted that his son would live to see the day when the total yearly attendance at the college would mount up to 1,000 students. His audience smiled. Yet the governor has himself lived to see the yearly attendance mount to nearly three times that number.

Secretary Wilson of the United States Department of Agriculture, is out with a vigorous protest against the use of the name of his department for advertising purposes. He states that several companies who are interested in selling land are advertising that the Forest Service of the Department of Agriculture has announced that within a very few years California will be the only source of the hard wood supply in the United States. He denies that such a statement was ever made by any bureau of his department, or that it is in accordance with the facts.

Mr. L. A. Fitz, whose article on "Experimental Milling and Baking Tests" appeared in a recent issue of the Kansas Farmer, has been elected to superintend the new division of Experiment Station work created by the Regents of the State Agricultural College at their last meeting. His new work will be on the milling industry and his previous experience as a student and graduate of the Kansas Agricultural College, his services as expert in the U. S. Department of Agriculture and in the North Dakota Agricultural College enables Dean Webster to say of him that he is the best expert to be found in the Na-

With which is combined FARMERS ADVOCATE. Established 1877.
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ADVERTISING RATES.—25 cents per cents of reputable advertisers respectfully solicited. No medical nor questionably worded advertising accepted. Forms close Monday.

OUR GUARANTEE.—It is our belief that all advertisements in this paper are from reliable persons or firms. To show that we are

tional Department of Agriculture on grain and milling.

There is considerable feeling manifested by the residents in the vicinity of the Chillicothe Indian school in northern Oklahoma in regard to the report that the government proposes to turn this school into an insane asylum. The citizens of both Kansas and Oklahoma object to this and want it made into an experiment station. It is excellently equipped for such a purpose and has, among other things, a splendid orchard of 75 acres. This orchard is reported by Mr. John E. Rastall of the Indian school to be in fine condition and to have come through the unusual winter without the slightest damage. It would seem that the government officials could find plenty of other locations for an insane asylum and, in view of the immense value that would come from the use of this school property, for a new experiment station, they should do so.

THE GASOLINE HIRED MAN.

Do you use a gasoline engine on your farm? If so, how many different kinds of work do you get from it? How expensive is it in maintenance? What did it cost you to buy and install? If it is a stationary engine, what kind of a foundation did you build for it? Has it been worth all that it has cost you? We should like to have the experience of our readers on these questions.

WE WANT YOUR EXPERIENCE.

Perhaps no farm appliance has gained more rapidly in popular favor in recent months than has the silo. We know of a few silos in the state that were built many years ago but which were abandoned for one cause or another. A careful inquiry generally develops the fact that the reason for such abandonment has been found in the farmer himself rather than in the silo. KANSAS FARMER invites its readers to write their experience in building and filling silos and in feeding the ensilage therefrom. Kindly write your reports on one side of the paper only as we should like to publish such as are available for the purpose.

FIRE LOSS EIGHT TIMES THAT IN EUROPE.

The direct loss by fires in this country is eight times as much per capita as in any country of Europe. The actual fire loss in the United States in 1909 due to the destruction of buildings and their contents amounted to \$215,084,709, a per capita loss of \$2.51. The per capita loss in the cities of the six leading European countries amounted to but 33 cents. Comparisons of the total cost of fires, which includes the items already stated, show that if buildings

in earnest in protecting our subscribers we guarantee the trustworthiness of our advertisers under the following conditions: We will make good the loss of any paid up subscriber who suffers by dealing with any fraudulent advertiser in our columns, provided complaint is made to us within thirty days after the transaction. This guarantee means just what it says. It does not mean that we guarantee to settle all trifling disputes between a subscriber and an advertiser, though we offer our good offices to this end. We do, however, protect you from fraud under the above condition. In writing to advertisers be sure always to say: "I saw your advertisement in Kansas Farmer."

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

KANSAS FARMER COMPANY,
Topeka, Kansas.

in the United States were as nearly fireproof as those in Europe the annual fire cost would be \$90,000,000 instead of \$456,000,000.

DO YOU OWN AN AUTOMOBILE?

It is said that there are more than 5,000 automobiles in use among the farmers of Kansas. The KANSAS FARMER would like to know if this is true. We would also like to know what make you use and whether you use it for farm purposes. There can be no doubt that the automobile will have a constantly broadening field of usefulness among the farmers as it will afford them an opportunity to make rapid trips to town for the delivery of cream, the securing of machinery repairs, to visit the doctor or for other business purposes, and this without disturbing the farm teams at their work. We invite short letters from all of our readers on the use of the automobile on the farm.

YOUR GRANDSON'S BIRTHRIGHT.

The Kansas Farmer publishes a proposed bill for "the Protection of Land Fertility." The bill if passed would make it unlawful to plant certain crops on land used for the same crops the year before, and provide a fine of not less than ten cents nor more than twenty-five cents an acre for each violation. Our Kansas contemporary does not support the bill, but ventures to say that "the time has come in this country when soil robbers should receive their deserts." And so approaches the time when the old idea that a man may do as he likes with his own may become obsolete. Possibly posterity—the race—has some contingent interest in the preservation of the capacity of this terrestrial ball to feed it. It's worth thinking upon.—Farm and Fireside.

THE HIGH COST OF LIVING.

The extraordinary prices that are now charged for the necessities of life have stirred up an unusual amount of interest throughout the nation, and many and various ways of correcting the situation are constantly being suggested. In order to get at the facts in the case and to have accurate information at hand on which to base future action by his department and recommendations to Congress, Secretary Wilson of the Department of Agriculture has started a line of investigation that will be watched everywhere with the keenest attention. Those who read his annual report will recall that he there gave the results of an investigation conducted in fifty cities of the country on beef prices and learned that the profit of the retailer of beef was 38 per cent. It will be seen at once that with such an enormous profit for the retailer and the necessary profit for the transportation companies, the packers and wholesalers

and the various dealers through whose hands the beef animals pass before they reach the shops of the retailers there can not be much left for the producer. It is reported that Secretary Wilson does not believe that the farmers of the country are receiving any higher prices for their products than they should, but that he believes that the middlemen are responsible for the high prices of which we complain. As there are some 20,000,000 families in this country who are directly affected by these high prices, it can easily be understood that Secretary Wilson's investigations will be watched with intense interest and his report on his findings will be strongly in demand.

TILLAGE AND CULTIVATION.

This is a good time to study how plants live and produce. If these principles of plant life were well understood it is certain almost that our farming would at once attain a high standard. Farmers know something more, as a rule, about animals and animal life than about plant life. It is known that the animal must have food and water and it is provided. It is known that the plant must have food and water but the plant is in reality allowed to shift for itself to a considerable extent. If Providence sends the rain at the right time well and good. If the rain does not come we fail to provide the plant with means of getting the water already stored in the soil. The following by M. G. McCall elaborates upon these ideas:

"For most soils it is best to practice deep tillage in the preparation of the seed-bed and shallow cultivation after the crop is planted.

"Deep tillage gives the plants a large amount of room in which to send out their roots in search of plant food, allows the soil to drink in the rainfall more freely, and permits the air to enter the soil and help in the preparation of plant food. Shallow cultivation checks the rapid loss of water from the soil by forming a loose blanket over its surface, kills weeds and helps to admit air to the surface layer of soil.

"Plants like animals, must have food and drink or they soon sicken and die. Animals can move about from place to place and secure their food, but plants must get their food and water by sending their roots into the soil. The tiny roots which spread out through the soil are busy all of the time taking up water from the soil for the use of the stalk and leaves above. This water, as it goes into the plant through the root, carries with it the plant food which it has dissolved out of the little soil particles.

"Place a lump of salt in a glass of water and stir for a few minutes. The salt disappears, and you will find that the water has a salty taste. The salt has dissolved in the water, and we say that the salt is in solution in the water. All of the food which comes from the soil must be in solution before it can be used by the plant. The water that goes in through the roots passes out through the leaves into the air and leaves the plant food behind to build up the tissues of the plant.

"If the soil is hard and lumpy, the little roots cannot penetrate far into it, but must feed near the surface. If we have a deep, mellow seed-bed, the roots are encouraged to go deep and gather plant food from a large amount of soil. The plant food in hard, lumpy ground is not easily dissolved. Stirring the soil and breaking up the clods brings the water into contact with more soil surface and hastens the solution of the plant food."

Labor on Austrian Dairy Farms.

Australia is making great headway in dairying. It seems that hired help is scarce, also that the boys are leaving the farm for the cities—a condition very similar to our own, which leads us to believe that human nature is about the same the world over. The following is from an Australian paper:

Difficulty is being experienced in many districts in securing farm labor, although as much as seven shillings per day and keep are offered and the typical Australian yearns for city life,

There are Fortunes in Farming the Right Kind of Land.

But why farm on land worth \$100 to \$150 an acre, producing but one crop a year, when you can get land of inexhaustible fertility in the San Antonio country at from \$25 to \$50 an acre, producing two or three crops every year? Land that costs a third as much—and crops three times as big.

Why burn up your profits in fuel, in heavy clothing and winter feed for stock, expensive houses and barns, when you can live here in a land of sunshine and comfort all the year and save that money?

Why farm in a land of snow and ice that forces you to be idle nearly half the year, when you can farm in this ideal climate and have something to sell every week of every month in the year?

In the San Antonio country you have the very best of transportation, good neighborhoods, schools and churches, soil deep and rich, health and happiness, prosperity, and perfect climate.

Write for "Farm Facts" (free), a book of facts for farmers interested in Texas lands. It is the best "land book" published. Address

JOHN B. CARRINGTON,
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Good farms, dairy and stock ranches, also colonization lands, near San Antonio. Best market in the United States for farm products. Write for list. Our prices are the lowest to be had. We are agents, not speculators. Members Chamber of Commerce. **CALAHAN-KIRBY CO.,** 310 Gibbs Bldg., San Antonio, Texas.



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Why plant doubtful seed corn when you can get the best that grows, at a reasonable price. **PURE BRED**, practical varieties, that yield big crops and make good money. We have it. We know it so well that we fully **GUARANTEE IT**. Test it any way you want and if not fully satisfactory, return at our expense. Fair enough, isn't it? Better buy seed corn of high germination, be sure of your seed and take no chances on doubtful seed.

Wouldn't you like to have some samples of seed corn, suitable for your location and our fine illustrated catalog, telling about our guaranteed seed. All free—write today.

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This is one of the finest rifles made. I want you to have one. All I ask is a little easy work. Write today and I will tell you about the gun and how to get it.

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and it is hard to check the stream from the country there. The trouble in the past has not been altogether of the employe's making. The farmer must accept some blame. Frequently the work has been intermittent just because the dairyman neglected his duty in providing feed to keep his cows in milk. Again, in the past, men have been paid wages which were altogether too low. If they have not all made provision for regular employment, they have been obliged at least to increase the rates of pay. Owing to the present lack of system, herds in many cases are not a profit for more than eight months in the year, whereas they could be kept up to a higher rate of production the whole year if fodder conservation were practiced. Most of the difficulties of the industry are due to the lethargy and improvidence of the producers. It makes men with business instincts pause in astonishment.

President Waters to Address the Shawnee Alfalfa Club.

At the regular monthly meeting of the Shawnee Alfalfa Club, which will be held at the Commercial Club on Saturday, Feb. 26, at 2 o'clock p. m., President H. J. Waters of the Kansas State Agricultural College will give a lecture on "The Feeding Value of Alfalfa." President Waters stands in the very front rank of experimenters in meat production and his lecture will be a treat to the members and visitors who are present. This will probably be the biggest meeting of the year and it is requested that everybody be on time. The meeting is free to all and every one interested is cordially invited.

Why I Breed Standard-Bred Horses.

(Continued from page 1.)

Argentine Republic had 5,462,000 horses in 1907 and the Australian commonwealth had 1,869,674, while Austria-Hungary claimed 2,308,457.

"The horse receives special attention in countries that maintain large standing armies. In Germany, for example, every horse fit for cavalry or artillery or for the heavy hauling of the transport service is carefully listed by the government. His age, condition and weight, together with his owner's name and residence, are known, so that in case that horse is needed for the army the government is bound to get him."

I am not a prophet nor the son of a prophet, but before closing I would like to speculate a little on the future of the trotter. The first great trotting sire was foaled the middle of the last century. The trotting horse industry had scarcely been well started when the whole country was plunged into civil war, and the farms of the blue-grass region ruined and the horses killed or scattered beyond hope of recovery. The later history of the industry has been variously interspersed with financial depressions, panics, hard times and blue laws, but in spite of all this the past season we have seen a two-year-old filly trot a mile in 2:07 1/4, in a race, an aged trotter a mile in 2:01 1/4 under the same conditions, the trotter out Hackneying the Hackney on the tanbark, and the markets of the world sending buyers here for our surplus product. What heights will the trotter attain, under favorable conditions in another fifty years? Do you still wonder why I breed the standard-bred horse?

THE HOT SPRINGS OF ARKANSAS

More than a mountain resort, more than a fashionable playground—these wonderful springs, with their mysterious health-giving waters, have become world famous as

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set apart by the United States government for the benefit of humanity. Where modern medical science joins hands with the wonderful curative agencies of nature—a retreat for the careworn or suffering in the great, beautiful out-of-doors.

Water is the greatest eliminator of human ills and the Hot Springs of Arkansas are the greatest waters known to mankind.

Patronized every year by more than 150,000 people from every part of the world the recuperating station of our army and navy, the training ground of the world's greatest athletes, the assembling place of statesmen and the rendezvous of society.

There is no Substitute for the Hot Springs Baths

The marvelous cures cannot be exaggerated. No one can afford to deprive himself of the quiet rest, the exhilarating joy and the wonderful toning-up that comes from a course of these baths, coupled with the rehabilitating influences of the mountain ozone and woodland landscape. Luxurious hotels, medium-priced hotels and high class boarding houses with every modern convenience.

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IRON MOUNTAIN**

Let us tell you more about it and help you plan your trip.
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DISPERSION SALE OF SHORTHORNS

To be held at the farm of F. P. Cooke,
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Beloit, Kan., Tues., Feb. 22

36 HEAD—7 bulls including the prize winning Scotch bred herd bull, Highland Laddie No. 243179, a great show and breeding bull weighing 2200 pounds with splendid confirmation on the shortest of legs. The young bulls are a splendid lot all reds, some of them fit to head any herd.

The cows old enough to breed are all safe in calf to the Scotch bred bulls, Duke of Dundee, Highland Laddie, or Select Goods Jr.

My prize winning show heifers of 1909 are all included in this sale, 12 heifers by Select Goods, he by the great champion, Choice Goods.

The cows in this sale are a splendid lot in just good breeding condition that are all ready to make money for the purchaser.

Auctioneers, F. L. Smith, H. H. Van Amburg.
Send for catalog, mentioning Kansas Farmer.

F. P. Cooke, Chas. S. McCleary,
Beloit, Kansas.

HOLLAND STOCK FARM

IMPORTERS AND BREEDERS OF

Peroheron and German Coach Stallions and Mares

Do you want to buy a stallion for cash?

Go to the Holland Stock Farm.

CHAS. HOLLAND, Prop.

—i—

Springfield, Mo.



Lice and Parasites Cost \$175,000,000 a Year

according to the report of the United States Department of Agriculture. What the death loss is, due to poisonous germs of disease, can hardly be estimated.

The cry everywhere is clean up, disinfect, destroy all forms of parasites.

Dr. Hess Dip and Disinfectant

Deodorizes, purifies the air, kills all forms of disease germs in barns, hog pens, cow stables, chicken yards, sinks, drains, etc., simply by sprinkling it everywhere. One gallon diluted makes from 70 to 100 gallons. It also kills lice, mites, sheep ticks, fleas, also sheep scab, mange, eczema and other parasitic skin diseases. Meets the United States Government requirements for official dipping for sheep scab.

If your dealer can't supply you, we will. Write for circular.

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GOPHERS Renken's Sure Catch Pocket Gopher Trap, only \$1.00 prepaid. Write for circular, it's free. A. F. Renken Trap Co., Kramer, Neb.



Horse Secrets Disclosed

The tricks in horse traffic—the dodges of unscrupulous dealers—laid bare. This is the first time complete information that protects the horse-buyer has ever been offered. Dr. A. S. Alexander, famous veterinarian, has written a book of "Horse Secrets" from a lifetime of study and observation and the costly experiences of others.

Besides a complete exposure of crooked methods, "Horse Secrets" contains new information on feeding, plumping and conditioning horses, curing their ills and breaking up their vices.

A good sized, well-printed book, that is worth many dollars to horse-breeders, large or small.

Farm Journal

has had this book prepared not to sell, but to present to its new subscribers. The Farm Journal is different from any other farm paper published. It is a "big little" paper, filled with practical, common-sense articles on everything connected with farming and farm life. Every unnecessary word is left out, so that it gives more matter in less space than any other farm publication.

It is a home paper, too, doing its best to make homes happy with its kindly, cheery messages of uplift and betterment. It is witty as well as wise, ably edited and well beloved by "Our 700,000 Folks" who take it. You may have

"Horse Secrets" and The Farm Journal for two years, both for **50c.**

FARM JOURNAL, 1028 Race St., Philadelphia, Pa.

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Wonderful Discovery

"VISIO"

MOON BLINDNESS and all diseases of the eye successfully treated with this NEW REMEDY.

Money Back if it fails to cure. \$2.00 per bottle postpaid on receipt of price. Vio Remedies Ass'n, Dept. 9, 1932 Wabash Ave., Chicago, Ill.



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Quickly and positively cured in less than three weeks with one application of

ADAM'S RAPID LUMP JAW CURE

Easy to use. Written GUARANTEE accompanies each bottle. Don't delay but write today for free circular. Dept. 23.

H.C. Adams Mfg. Co., Algona, Ia.



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Newton's

Guaranteed or Money Back. \$1.00 per can, at dealers, or Express Paid. 16 1/2¢ bottle.

THE NEWTON REMEDY CO., Toledo, Ohio.

LIVE STOCK



While the winter season has been somewhat strenuous this year, the cold has been steady and stock have not suffered so seriously as they might have done if subjected to greater changes in temperature. The breaking of the winter and the early weeks of spring are always the most trying on all classes of stock. This is the time of year when you need horse blankets and now is the time to secure some for your driving team if you do not already have them.

The animal husbandry department of Texas has recently completed an experiment in hog feeding with rice bran as the principal feed. It was found that with rice bran at \$17 per ton, tankage at \$40.30 per ton and black strap molasses at 14 cents per gallon the cost per pound of pork produced was for rice bran 3.75 cents, tankage 1.11 cents and molasses .96 cent or a total of 5.82 cents. The value of the hogs at the beginning of the experiment was \$5.62 each reckoned at 6 cents per pound. The feed during the experiment cost \$7.62 per head, thus making the total cost of the 11 head of hogs to be \$145.84. They sold on the market for \$197.84, thus showing a profit per hog of \$4.72 or a return of 35.6 per cent on the investment for 90 days. This is one more bit of evidence in the claim that it is possible to raise hogs for market without corn.

The Trotting Horse.

This country has in the native trotter and trotting bred horse the fastest roadster, the speediest race horse, the highest stepper, the best hunter, the best polo pony, the most salable horse—in short, the most versatile horse on earth. Why not confine all our efforts to further refining the almost pure gold we possess rather than mix with it a baser metal of other breeds, which, when their grades do earn reputations, are given all the praise regardless of the fact that from no other combinations than our trotting blood do such results accrue. You've seen many a good grade by a Hackney or French or other type, and the stallion invariably got the credit; but the little old trotting-bred mare that nurtured and nursed and gave the grade most of his good qualities never received a thought. That's the world over. Whoever considers the mothers of great men, and reflects that from them came everything that was best in their sons?

The reasons why "trotting horse breeders do not produce show horses and high actors in quantity" are many, writes F. M. Ware of the American Horse Exchange in the Western Horseman. In the first place, no trotting horse breeders are yet wild to produce such animals. Trotting horses have always been bred for something far different, yet nothing so signally demonstrated the trotting horse's marvelous versatility and adaptability as the fact that the moment we balanced him and asked him to go high, he beat the world at his novel task. Every country sent shoals of buyers here to carry our trotters away to localities that had never been able, after a hundred or more years of effort, to produce anything that approached our trotter for action, pace and endurance. This, too, he did, although for fifty years we had exhausted our ingenuity to make him "go low" and "stealing gaited." If he bent his knees or "pulled" his hocks we would, in olden days, have none of him for our purposes. Furthermore, train him to go as high as you like, and he is a trotter again and can beat the world.

The Feeder's Profit.

In the discussion of the high cost of living the farmer is blamed. He is accused of holding up the public and demanding too great a profit on his live stock. This has had such a vogue in the newspapers that there are many who doubtless believe it, though these people can not have any knowledge of the real facts in the case. Secretary Wilson does not believe that the farmer gets more than

he should receive for his products nor does any one else who knows the facts and yet there is a possible danger that the articles in the papers which have been referred to may serve to create a wrong impression in the mind of the breeder and feeder himself. Recent conditions have shown that in spite of the high feed stock hogs weighing 100 pounds or more are selling in some sections at a premium of 2 or 3 cents above the market quotations on fat hogs, and this condition does not indicate that there will be a profit made even on 8 cent hogs. With ear corn at 65 cents per bushel, 100 pounds put on a 100 pound pig that sold at 10 cents per pound to a feeder, will cost nearly 7 cents per pound. This would make a 200 pound hog cost to produce about \$14.50, when if he were sold for 8 cents, he would bring \$16 or only \$1.50 for work, risk and interest on the money. This margin is so close that there can be little wonder that many farmers are selling their corn to the elevators at present prices. Hogs are scarce and it is difficult to pick up the right quality should one desire to feed his corn. The good hogs are generally fattened and marketed by the man who raised them as he is thus sure to get a good price for his corn. The feeder who must buy is generally the man who must also buy some feed, and in searching for hogs for his feed lot he will find a great many more culms than good hogs. There never was a time in recent history when the necessity for economical feeding was so great as right now.

Western Stockmen Protest Against Boycott on Meat.

The growing movement to boycott meat has aroused stockmen of the west to a protest that the effect of the boycott will be against the stockmen rather than against the packer. Recently directors of the Western Stock Show Association composed of five hundred western stockmen and business men interested in live stock production adopted the following resolution:

"Whereas, There has recently been started in various parts of the country a move to boycott the use of meats for food with the idea that such action will result in lower prices:

"Whereas, This movement is based on ignorance as to the actual conditions governing the meat supply of this country; therefore,

"Resolved, By the Western Stock Show Association, that we condemn this movement as calculated to discourage an increased production of meat animals. We believe that stockmen and farmers of the United States should be given every incentive for increased production rather than discouragement. The present prices of meat are caused by the increased demand due to the growing population of the country and the low prices that have heretofore prevailed are responsible for the failure of the producer to keep pace with the increase in population.

"We call the attention of the public to the fact that the production of live stock, in a large measure, depends on the fertility of our soil and consequently the production of agricultural crops.

"With the increase of our population, it is the duty of every patriotic citizen to encourage agriculture in every possible way. We assert that present prices for meats are not unduly high as compared with the advance in price on all food products.

"The present movement to boycott the use of meat food is popularly supposed to be aimed at the packer, but in reality it is a blow at the stockman and farmer, and is calculated to decrease production rather than materially reduce prices."

Benefits from Exterminating Ticks.

The benefits of exterminating cattle ticks are being realized in a very practical way in the parts of the South that have been freed from these pests and released from quarantine. Dr. A. D. Melvin, Chief of the United States Bureau of Animal Industry, in his an-



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nual report recently submitted to the Secretary of Agriculture, has the following to say on this subject:

"An investigation recently made by the Bureau in this territory shows that great improvement has already resulted from this work. More cattle are being raised, and a better grade of breeding stock is being introduced; calves grow faster, and cattle put on flesh more rapidly during the grazing season and go into the winter in better condition because of the absence of the ticks; they can be marketed without quarantine restrictions, and higher prices are being obtained; dairy cows give a larger yield of milk, and values of farm lands are enhanced. Aside from its own observations, the Bureau has received from persons in the released territory numerous letters and other expressions confirming the foregoing facts and testifying to the great benefits following the extermination of the ticks.

"The difference between the prices realized for cattle from the tick-infested region and the prices of cattle of similar grades from above the quarantine line ranges from \$2.25 to \$5 a head at the principal northern live stock markets, without taking into account the improvement in quality and weight of cattle because of the eradication of the ticks. As more than 1,000,000 cattle from the quarantined area are annually sold in these markets, it can easily be seen that the extermination of the ticks means an annual increase of at least \$3,000,000 in the prices obtained for southern cattle sold in northern markets. In addition to this, the increase in prices of cattle sold locally in the South would represent a large sum. This local increase has already been found to amount to from \$3 to \$15 a head in the territory recently freed from ticks. An agricultural official of one of the southern states reports that calves in the tick-free area bring just double the price that can be obtained for similar calves in the tick-infested region.

"Heretofore it has been impracticable to improve the quality of southern cattle by introducing fine breeding animals from other sections, because such animals were liable to contract Texas fever and die unless protected by inoculation. Furthermore, it is impossible for animals to attain good growth and to thrive when they are heavily infested with ticks. With the eradication of the ticks, however, the southern farmers are enabled to produce good breeding animals and to improve the grade of their stock."

Percheron Brands.

C. H. W., Anthony, Kan., asks the Breeder's Gazette explanation of this point:

"Please give in full the meaning of the brand on Percherons imported from France. Several here have discussed it, but there is no agreement. My understanding is that a branded horse has passed the government test and can make a public stand."

Percherons imported from France may have one or all of three official brands on the neck under the mane. Two of these are brands of the French government. Stallions that stand for public service in France are officially examined every year. If they are free from periodic ophthalmia and have good wind they are branded with a star under the mane, signifying that they are certified free from these unsoundnesses and allowed to stand for public service. If at the first or any subsequent inspection they are found to have either of these unsoundnesses they are branded with a letter R to show that they are rejected from public service. Stallions that do not stand for public service do not need to be inspected, and, of course, are not branded by the French government.

The third brand and the one of greatest importance to breeders is that of the Percheron Society of France, which signifies that the horse has been recorded by it. This brand resembles our dollar sign except that it has one vertical bar instead of two and is placed under the mane on the neck of Percheron stallions and mares recorded in the French stud book. The brand is designed from the letters S and P, which stand for Societe Percheronne, the French name of the Percheron Society of France. M. A. Thieux, secretary of that society, stated in a letter to this office some time ago that "all horses recorded in the Percheron Stud Book of France carry under the mane the letters S and P interlaced."

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This is the name of a book about trees and vines, written by a man who has been in the business for 25 years—M. J. Wragg of Iowa. It tells where to get guaranteed stock and how to plant trees so they will grow. The book is free. Send for it.
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250 Head at Public Auction

Tuesday, Wednesday and Thursday, March 1, 2, 3, 1910

30 two year old heifers in calf, 30 yearling heifers, 100 cows from 3 to 8 years old, 30 bulls, 60 calves of both sexes to be sold with their mothers.

NEVER BEFORE IN HEREFORD HISTORY HAS SUCH AN OPPORTUNITY BEEN OFFERED BUYERS OF PURE BRED CATTLE. The entire show herd is included and the four great herd bulls, Beau Mystic, Expectation, Beau Doncaster and Beau Mystic 11th. Beau Mystic I believe is the most valuable Hereford bull in America. He was shown two years at the leading fairs of the country and was never defeated but once and then he walked to the show ring on three legs. I believe he can defeat any bull in the country in next year's show, and I doubt if any breeder can show as fine a lot of cattle as I will show you on sale day by this bull. IT IS HIS ABILITY TO PRODUCE GOOD ONES THAT MAKES HIM VALUABLE RATHER THAN HIS SHOW RECORD.

On March 3rd I will sell 25 mares and horses, 30 milk cows, 40 pure bred Berkshire hogs, 12 sheep, farm machinery and household goods.

SUNNY SLOPE FARM is the best advertised pure bred breeding establishment in America, and is situated from a buyers' standpoint as good as any in America. \$100,000 will not advertise your farm as well as this one has been advertised. It is for sale. 970 acres for \$60,000. Land adjoining it is selling for \$65 per acre. The farm will be sold at private sale. Everything else at auction. Write for catalog and remember the dates, March 1st, 2nd and 3rd.

Auctioneers: Col. F. M. Woods, Lincoln, Neb.; Col. R. E. Edmonson, Claude, Texas; Col. Geo. P. Bellows, Maryville, Mo.; Col. Thos. Scofield, Emporia, Kan.

C. A. Stannard
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BERKSHIRE SOWS AND GILTS AT AUCTION

THURSDAY, FEBRUARY 24, '10

At farm 3 miles from WAYNE, 5 miles N. E. of TALMO and 9 miles S. E. of BELLEVILLE, KAN.

A choice offering representing the best strains such as Baron Lee 4th, Lord Longfellow, and Black Premier.

I have bought stock from the leading herds Kinloch Farm, Kirksville, Mo., and Chas. Sutton, Lawrence, Kan., included. The offering is a good one all safe in pig to a son of Black Premier.

Bids can be sent to Jesse Johnson representing this paper.

P. J. George, Auctioneer.

F. T. HADACHEK
WAYNE, KAN.

DAIRY



The cow requires 60 per cent of the feed consumed to maintain her body. If the weather is cold and she is exposed a larger percentage of feed is required to maintain and warm the body. It is apparent then why it is cheaper to keep the cow warm with a stable than by the use of high priced feed. The food over and above that required for bodily support is left for milk production. It is from that surplus only that milk can be made. A big milker must consume larger quantities of feed in excess of the amount needed to support the body.

Progress of Dairy Records.

It does beat all how these butter records keep climbing up. Three years ago the fawn-colored champion dairy cow Yeksa Sunbeam carried off the Guernsey honors by giving in one season 857 pounds of butter-fat. Two years ago a world's record was established by the Holstein cow Colantha 4th's Johanna, when she yielded up to her proud owner the total of 998 pounds of butter-fat, and this was followed by the Jersey, Jacoba Irene, with a performance of 17,253 pounds of milk and 1,112 pounds of butter. These figures compare in a rather startling way with the average returns of the ordinary old ranch cow.

Farm Dairying.

Dairying in Kansas is on the increase. Each year, according to my observation and experience, the farmers of Kansas are producing more dairy products than the preceeding year. While we have in this state a climate almost unexcelled for dairying, the very finest of feeds for the compounding of a milk ration, we are nevertheless as yet not a dairy state. I mean that by this: Our people have not yet reached the point where people generally feel the need of the dairy business.

Dairying in Kansas has reached its present magnitude as a result of dairying being made easy. In no state in this Union do I know where dairying is so easily done as in Kansas. In the first place, we get away from the expensive production of dairy products in Kansas as compared with states further east and those farther north. What dairying we have here is the result of a natural condition which it is difficult to get away from. Dairying in Kansas is so easy that the women and children, and in some cases the men, cannot help but milk the cows, run, that milk through a cream separator, and sell the cream.

What I know about dairying is the result of having come in contact with the old cow, having fed the cow and milked the cow and cleaned out the stables. For that reason I view dairying possibly from a somewhat more practical standpoint than do many people who talk dairying.

In my travels throughout Kansas and throughout the United States, being particularly interested in observation along the line of dairying, I find that the man, who takes good care of his cows, almost regardless of the particular breed which he is milking, is the man who makes the most money out of dairying. Few of our farmers realize the necessity of milking dairy bred cattle. They do not look upon the cow as an animal for the production of milk alone. We are dairying in Kansas at the present time with a cow of low dairy producing value. She does not average 150 to 200 pounds of butter fat, as do the cows in some states, where the breeding has been along dairy lines for many years. It gets back again to that point that Kansas farmers dairy because they cannot help it. Our cows, according to my observation, are not such poor cows as is our system of feeding.

When you talk dairying to a man, the first thing he makes inquiry about is what breed of cow he ought to milk. He has heard people talk dairying, pointing out the fact that it is not worth while for a man to milk a cow unless he can milk a dairy bred cow. I am in sympathy with the dairy bred cow. If I were dairying as a business, I would not dairy with

anything except the best dairy bred cow I could get. Any farmer who is dairying, really dairying, cannot afford to consider the milking of anything but a good cow. He may not be able to put his hand on that cow at just the time he is ready, he may not be able to buy 10 cows which will average 300 pounds of butter-fat per year. The chances are that he will not be able to buy that kind, but he must milk the cow which he has and the cow which is obtainable.

The man who has a 160 acre farm cannot get away from keeping cows on that farm. A great many of such farmers are milking. They are milking the common cows with profit. I heard a man say the other day that if a farmer was not realizing \$30 per year per cow from the sale of dairy products it did not pay to milk that cow. Now, if that man is a dairyman if he is keeping cows for dairy production only, the statement is correct but cows kept as the farmers of Kansas generally keep them, and which cows are producing, we will say, \$30 worth of dairy products per year, those cows are paying well for their milking. I have a theory which I have talked often and which to knowledge has not been disputed or disproved, and that is this: That a Kansas farm is not a farm without cows. The Kansas farmer is milking these cows. The milking is done at a time of year when milk is produced cheaply and these cows originally are kept for the purpose of producing a calf. for the purpose of producing a calf. Even though the cows are milked, the calf is worth as much at one year old as if that calf had suckled. My theory, therefore, is that the cow was kept, in the first place, for the calf, and that the dairy products which she gave for sale is something which has been saved from the calf. The calf has not needed the product which has been sold. If that is true, then it is not right to charge the dairy end of that farm's business with the total value of the feed consumed by that cow. Under these circumstances the dairy should be charged only with the feed consumed by the cow over and above that which she would have consumed as a stock cow. If we apply that theory to Kansas dairying and that is the theory upon which nine of every 10 cows in this state are milked—if we apply that theory then, we realize \$25 to \$30 per year from that cow, we have gained just that much, and the only thing chargeable against it is the cost of labor, of milking and stabling, the cost of hauling the cream to the railroad. Under these conditions, then, I contend that the farmer who milks under the present day method has profited from his dairy operations. Now, the farmer who has 80 acres, must dairy with a cow whose business it is to convert the feed into milk. For such farmer, if he is able to select the best from his present herd will have a good foundation upon which to build a dairy herd.

Now, let us begin with this common stock. It can be selected, cows which will produce 250 to 300 pounds of butter-fat per year. I believe a good judge can go through this state and buy at prices ranging from \$60 to \$75 cows which when properly fed will be valuable as dairy animals from the beginning. If we begin our operations in that way and we are really going to dairy, it should be our endeavor to improve those animals. The only I know by which an improvement along dairy lines can be obtained will be by introducing some dairy blood into that herd.

I would secure a good male animal. Any kind of dairy blood is better than none at all for dairying. It is my judgement that there is very little difference in dollars and cents as between a good herd of Holsteins, Jerseys or Ayrshires. I know which I would select if I were going into the business. It is a good thing that our ideas do not all run in the same line. If they did there wouldn't be enough to go around. If we all wanted the same girl for a wife a lot of us would

GREAT BIG SMOOTH POLAND CHINAS AT AUCTION

WEDNESDAY, FEB. 23, 1910

AT FARM ONE MILE WEST OF

PAWNEE CITY, NEBRASKA

40 head consisting of tried sows and last February and March gilts, bred for early farrow, mostly to the great boar, Looks Grand, the boar that sired the sensational offering made by H. S. Chapman & Sons last fall. More than half of the gilts were sired by my herd boar, Growthy King by Long King, the 1,110 pound boar. His dam was P. W.'s Giantess, representing one of the most noted of all big Poland China families. Among the attractions in tried sows are Lengthy by Big Hadley, Flossie X by Expansion See, Flora by King Do Do and Lady Johnson by Johnson's Chief. The other sows and gilts are by Looks Grand and Pfander's Pride.

This is a select offering, many of the gilts weighing around 400 pounds. I have bred Poland Chinas for twenty years and invite you to this sale with the conviction that the offering is composed of the most profitable type of hogs that there is in existence today. Write for catalog. If interested and unable to attend send bids to any one connected with the sale.

L. W. Leonard, Auctioneer. Jesse Johnson, fieldman for Kansas Farmer.

G. S. HAMAKER
PAWNEE CITY, NEBRASKA

W. T. FITCH'S ANNUAL BRED SOW SALE

MINNEAPOLIS, KAN.
Monday, Feb. 21.

My offering on the above date will be my regular annual sale and by far the best offering I have ever made. Thirteen tried sows go in this sale, 2 by Top Notcher Chief, one of which was a winner in the Mitchell County Fair this season, and both are bred to Fitch's Kant. One Fancy Chief sow that won as a pig at Hutchinson, 1 Belle's Chief sow, 1 by Improved 2d, 2 granddaughters of Proud Advance, 3 fall yearlings by Beauty's Wonder and out of a Kant Be Beat dam, 2 by King of Cols. 2d and out of a Model Chief Again dam. The balance of the offering are spring gilts. Also a herd boar of note. The sale will be held at my farm near Minneapolis. Free accommodations at the Stratton house and free transportation to the farm. Catalogs are now ready.

W. T. FITCH, PROP.
MINNEAPOLIS, - - - KAN.

Auctioneers: John Brennen, G. W. Barker. J. W. Johnson, Fieldman.

be without wives. We are in the same fix so far as dairy animals are concerned.

A dairy sire whose ancestry has been known to have produced large quantities of milk is the sire that we should get. Cross this sire on common cows. If that sire has the ability to transmit the dairy quality of his ancestors to those heifer calves it is not assuming too much to believe that the yield of those heifers will be increased one-third over that of their mothers. The result is that a very creditable herd of dairy animals can be obtained.

I was born on a farm on which Shorthorn cows and Shorthorn bull calves were the principal commodity for sale. Along about '88 or '90 you gentlemen know what happened to the Shorthorn business. The creameries came into the country and we endeavored to milk these great big, fat, red cows which had never been milked before. It was not a great success, but nevertheless, beginning with the best of those cows, in a period of nine years a grade Holstein herd was built up, which herd, young and old, averaged 300 pounds of butterfat per year. What was accomplished on that farm can be accomplished by any farmer who will set about to do dairy business because he really loves the business or because he feels the necessity of so doing.

I know of no better way of determining the value of a cow than to weigh milk and test the milk. There is, in fact, no other way of determining the dairy ability of a cow. If there was an easier way, I am sure that way would have been suggested long, long ago. The average farmer figures that it is a whole lot of work to weigh the milkings from a cow night and morning, year in and year out, to test a sample of the milk once a week, but it is the only way, so far as I know, by which we are able to determine the relative value of dairy cows. The trouble is not so much as it might seem. It is valuable exercise for the boys and girls. It helps this proposition of educating the boys and girls in lines pertaining to agriculture. If our boys and girls are to remain on the farm they must know something of these things. When they begin to examine and inquire into animal life, into the causes and whyfores on the farm, the result will be that they think a whole lot more of the farm. It is good exercise to have boys and girls test the seed corn and to test this milk, keep these cows' records.

It would be my judgment that if the farmer determining to go into the dairy business should buy his neighbor's best cow. Go to Bill Smith's place and he will show you the best cow in his herd. He will point out several that he will sell for \$35. He will call your attention to old Spot. He wouldn't sell her at all, but that is the cow you want. If old Spot is his best cow that is the cow you want and you can afford to pay him his price. Get him to name his price on that cow. Old Spot is worth \$75 or \$100 as compared with \$35 for cows which he is willing to sell. It is my judgment that that is a good way to get this dairy herd which we want to start.

I have observed that about 40 per cent of the cows as we find them in farmers' herds generally are fairly good animals for dairy purposes. They are good enough to begin with. If we have 10 cows and save the best four of that bunch, and can buy six as good as our best four, I will guarantee that the net profit from that bunch of ten cows will be three or four hundred per cent greater than the profit from the 10 which you originally milked.

In considering the value of the dairy herd, we must of course not overlook the fact that dairying removes from the farm less fertility than any other means of farming. The average Kansas farmer of today is not very much worried about fertility. Yet we can see that the fertility of our farm is not so great as it was years ago. We begin to realize that we must adopt a system of farming whereby we will not be selling away a part of our farm every time that we haul a load of corn or wheat to market. Dairying will impress itself upon the people of this state as they begin to realize that we must maintain this soil fertility. Dairying will begin to impress itself upon the people of this state when they realize that we must pursue economical farming. The fact of the business is that

about 45 per cent of the value of our corn crop is each year permitted to remain in the field and blow away in the shape of corn stalks and leaves. That means that when we get to the point where it is really necessary for us to economize, when we get to the point where our farms must produce more food for human beings, we will begin to save this corn in the form of ensilage. In fact, we will begin to save many other things which at the present time are wasted on the farm. Dairying is the result, and will be in this state, of a condition whereby our farmers become a little more cramped than we are at the present time.

Grain farming in every new locality is the first type of farming. Next comes stock farming. Beef with hogs next to dairying, is probably the most economical line of farming. On this beef question I wish to say this: That the beef of the future will be beef produced on the small farm. We farmers of Kansas will see the necessity for intensive farming in this state. From this time on we will realize more and more its necessity. We cannot yet and will not for several years be in a position whereby we are justified to sacrifice the calf. The beef of the future will come off of the small farm. It will come off of the farm of 160 acres and 80 acres and our farms will gradually decrease in size in this state. It will be fattened on the farm. No man in the world can produce beef so cheaply as the man who raises the feed and the man who raises the calf.

The ranges of the southwest are gradually disappearing. There is and has been for several years a continually increasing shortage on range cattle. The farms of the middle west must to a very great extent supply that shortage and we will produce, we will make this beef our eight or ten steers sold per year from the farm and will do it in connection with dairying. Our dairy operations will not be intensive dairying operations. We will not be milking cows which produce five, six and eight hundred pounds of butter per year. We will, however, be milking cows which produce 300 pounds. Such a cow will produce a calf which, when properly fed and fattened, will make its owner money sold as beef and the man who eats beef will have to eat that kind of beef because it is the only kind he will get from the United States within the next 25 to 50 years.

I would not convert every farm in Kansas to a dairy farm if I could. Dairying is a thing which comes with practice. A certain degree of intelligence must be acquired. We have the intelligence, but we must learn how to apply that to dairy operations. Dairy operations require, in my judgment, a greater degree of patience and intelligence than any line of business connected with farm operations.

The breeders of Kansas are not existing in such numbers as they should exist. There are inquiries, and dozens of them, every day for dairy bred stock. There are more inquiries from people who want to buy Shorthorns and Red Polls, which are milk producers. There are many breeders of Shorthorns and Red Polls in the western country. I do not know a single breeder of the Shorthorn or Red Poll cattle which breeder is milking those animals. The Shorthorn man advertises that he has animals of the milking strain; the Red Poll man advertises that he has the best milking breed. The farmer is looking for the animal to milk wearing red hair. There is a demand for bulls from red cows producing seven to nine thousand pounds of milk per year. If bulls wearing red hair could be produced from such cows, the dairy business in the state of Kansas would double or triple within the next two or three years.

The fact is that so far as the farmer is concerned, the dairy bred steer and calf will make him as much money as the calf of any beef breed. But the opportunity is here for the man who is breeding Shorthorn cattle or Red Poll, to establish a trade among dairy men. He must milk those cows. If he will milk them he will be well paid for the labor by the milk alone and he will assist the dairy industry in this state as no other breeder is as yet able to do. The opportunity for the successful breeding of animals of strictly the dairy breeds, as well as the development of the milking qualities of some of the beef breeds, opens great opportunities to the breeders of the state of Kansas.—T. A. Borman, before Kansas Improved Stock Breeders Association.



NOT "MAIL ORDER" CREAM SEPARATORS

The World's Standard DE LAVAL Cream Separators are not sold in the "mail order" way, and therefore not advertised with the big newspaper space and big "word claims" used to sell second and third grade separators in this manner.

Part of the money spent in the sale of inferior separators in the "mail order" way is put into commissions to locate agents in the case of DE LAVAL machines, and the buyer of the separator for use gets the benefit of it instead of the newspaper, through the setting up of the machine and the instruction of the buyer in its proper use by the agent, as well as in its occasional looking over and the prompt supplying of any needed parts for it in the years to come.

That's the difference in the method of sale between the DE LAVAL and most other makes of cream separators, which means almost as much to the buyer-for-use as the superior efficiency and durability of DE LAVAL machines.

The difference of merit and method of sale save the cost of the DE LAVAL over other separators in a comparatively short time and make a DE LAVAL machine last an average twenty years while other separators last on an average from six months to five years, according to their grade.

If you don't know the nearest DE LAVAL agent to you send for a catalog and his name and address.

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SEED CORN 153 BU. ACRE

Diamond Joe's Big White—A strictly new variety. None like it. It is the Earliest and Best Big White Corn in the World—Because it was bred for most Big Bushels, not fancy show points; because grown from thoroughbred inherited stock; every stalk bears one or more good ears, because scientifically handled, thoroughly dried and properly cured and had the most rigid examination. Big Seed Catalog FREE. It tells about all best farm, grass, garden and flower seeds grown. Write for it today. Address, RATER'S SEED HOUSE, Shenandoah, Iowa.

POLAND CHINA BRED SOW SALE

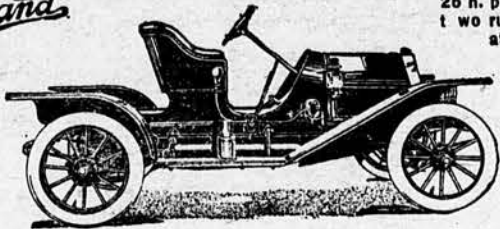
50 Tried Brood Sows and Gilts will sell on the Miller farm between Seward and St. John, Kan.,
FRIDAY, FEBRUARY 18, 1910

A Few of the Attractions

One On and On sow, dam Perfection E. L., bred to Peerless Perf. 2d.
One by Impudence, dam Chief Perf. 2d, bred to Peerless Perf. 2d.
One by Corrector Chief, dam Pride's Sunshine, bred to Peerless Perf. 2d.
One by A. C. Perf. sow, dam was Mo. Queen by Mo. Black Chief, bred to Peerless Perf. 2d.
One by Perfect Chief, dam Tec. Queen, bred to Peerless Perf. 2d.
One by Lamplighter 2d, dam by Look No Farther, bred to Peerless Perf. 2d.
7 Peerless Perf. 2d gilts out of Dandeline by Meddler, part of them bred, others sold open.
4 gilts by E. L. Clover Bud out of On's Day Dream by On and On.
One Chief Keep On by Chief Perf. 2d, dam Flashy On and On E. L.
One sow by Boom De Aye by Corrector 2d, dam White Tip.
One by On the Spot, dam Lady Pride by Kansas Black Perf.
One by Kansas Meddler, dam by On the Spot.
Several good business sows will be sold in this sale, tried sows and bred again for early litters.
Send for a catalog and come to our sale. We will treat you right. Mention Kansas Farmer when you write.
Auctioneers: John D. Snyder, Winfield, Kan.; G. W. Roberts, Larned, Kan.

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The Overland



25 h. p.—102-inch wheel base. One or two rumble seats or Toy Tonneau at small additional price.

This Car for \$1,000

This is how an enormous output has cut the cost of Overlands 20 per cent.

In our largest factory—once the great Pope-Toledo plant—we are turning out eighty Overland Models No. 38 per day.

We are making under one roof nearly every part of the car. And every machine in the factory is adapted to this particular model.

In this way we are saving about 20 per cent. We are giving for \$1,000 a better car than the Overland which last year sold for \$1,250.

Yet last year we gave more than anyone else ever attempted to give for the money.

None Can Compete

It is so with all Overland models—with our \$1,250, \$1,400 and \$1,500 cars. Each is the utmost at its price. All prices include Magneto and full lamp equipment.

Our four factories must this year make \$24,000,000 worth of Overland cars to fill orders already placed.

This enormous output—this specialization—places Overland cars beyond all competition. To sell equal cars at the Overland prices would ruin a smaller maker.

Simplicity

The demand for Overland automobiles has multiplied 500 times over in the past two years. It has made our sales the largest in the world.

The reason lies in the Overland's matchless simplicity. A 10-year-old child can master the car in five minutes.

Never was a car so easy to operate—so easy to keep in order. That is why one car has sold others, and the others sold others, until we today employ 4,000 men to meet the demand for Overlands.

A Wonderful Story

Here is a car so amazingly simple—so handsome, so powerful, so cheap—that in two years it has captured a large part of the whole automobile trade. Neither in city or country is there a car that sells like it.

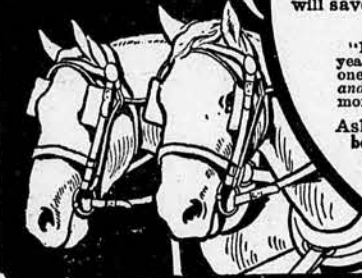
This sensational success forms a fascinating story, and we have told it all in a book. You cannot know the best about automobiles till you read it. Please send us this coupon today for it.

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Please mail me the book.

A 3

Licensed under Selden Patent.

It Works While They Work



No need to let your horses "eat their heads off" on account of Spavin, Curb, Ringbone, Splint, Bony Growths or Lameness. Kendall's Spavin Cure cures them while the horses work. It's the old reliable cure, used by horsemen and farmers for the past forty years with greatest success, curing horses without "laying off."

KENDALL'S SPAVIN CURE

will save you big money some day—if you have it ready.

Bert Perrin, of Shoshone, Wyo., writes:

"I have used Kendall's Spavin Cure for the last two years, and have cured several Spavins and Splints, also one Ringbone. It has never failed to reduce swelling and lameness in the joints of my stock, and I consider it more useful than any other horse liniment ever made."

Ask your druggist for Kendall's. Price \$1.00 a bottle; 6 for \$5.00. Don't take a substitute. Also, get the valuable book, "Treatise on the Horse," from your druggist, or write to

DR. B. J. KENDALL CO.
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FROM FACTORY TO USER

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

THE JENSEN MFG. CO., TOPEKA, KAN.

Anti-Friction 4-Burr Mills Double the Capacity of Geared Mills.

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

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

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



LIVE STOCK FEEDING, BREEDING AND MANAGEMENT.

HOME STUDY

The scientific farmer is a King; the Ignorant Farmer is a Slave. We give by mail a concise, complete and comprehensive course in the kind of FARMING THAT PAYS, including a scientific study of stock feeding, breeding, care and training; crops, seed, rotation, soil, farm management, machinery; dairying, poultry, fruit growing, gardening.

Also course in Domestic Science, Intensely practical. Tuition low. Write for catalog to FORD CORRESPONDENCE SCHOOL,

TRENTON, MISSOURI

THE FARM



Concrete is now used in the construction of bee hives, hog houses, pipe organs, boats, silos, barn floors, baby cradles, burial vaults, in the Panama Canal, and in making collar buttons, to say nothing of street pavements, sky-scrappers and hen coops.

A dozen corn crops of the United States would buy all of the railroads in the country while three more would buy all the banks. Yet this is true only because of immense area and not because of good farming. Our present average yield of corn is only 26 bushels per acre.

The pocket gophers are quite easily killed with poisons. The United States Department of Agriculture gives the following formula for this: Dissolve one ounce of strychnia sulfate in a pint of boiling water. Add a pint of thick sugar syrup. Scent this mixture by adding a few drops of oil of anise. Steep a half bushel of corn in hot water and allow it to soak over night. After this, drain it, and allow to soak for several hours in the poisoned syrup.

Concrete work should be avoided in freezing weather, as frost damages it. Where it is absolutely necessary to do work at this time, a small amount of salt added to the water will prevent freezing; this does not damage the concrete where used in small quantities. An objection is sometimes raised that concrete floors and walks are too smooth and become slippery when wet. This fault is largely due to the fact that the finishing surface was completed with a steel smoothing trowel instead of a wooden trowel, smoothing board, or straight edge, which would have left the surface rough. This fault is also overcome in a great measure, by dividing the wearing surface into small squares about four inches on each side, by means of triangular grooves three-eighths of an inch in depth. This not only makes a neat appearance, but furnishes a good foothold for stock.

Rules for Feeding Dairy Cow.

Professor Eckles of the Missouri Agricultural College gives the following rules for feeding a dairy cow:

1. Feed all the roughage she will eat up clean at all times.
2. Feed one pound of grain per day for each pound of butter-fat produced by the cow per week.
3. Feed all the cow will take without gaining in weight.

Essentials in Good Farming.

Samuel Knapp, in charge of demonstration work in the United States Department of Agriculture, has summarized good farming in the following rules:

1. Prepare a deep and thoroughly pulverized seed bed, well drained;

Business Colleges

Box 353 F., Hutchinson, Kan.
Largest in Kansas. Students come from fifteen states.

\$1.00 for 90 Cents

Here is a chance for some one wanting to go into business. If you will hurry, a \$1.00 stock of goods for sale at 90 cents on the dollar. Have to sell on account of health. Located in a town of 2,000 people, surrounded by farming country.

Trumby & Barrett, Ponca City, Okla.

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And earn from \$53.00 to \$165.00 per month. We have railroad wires giving actual experience. Owned and operated by the A. T. & S. F. Ry. Write for illustrated catalog. Desk F.

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Topeka, Kansas.

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break in the fall to a depth of 8, 10 or 12 inches, according to the soil, with implements that will not bring the subsoil to the surface (the foregoing depths should be reached gradually).

2. Use seed of the best variety, intelligently selected and carefully stored.

3. In cultivated crops, give the rows and the plants in the rows a space suited to the plant, the soil and the climate.

4. Use intensive tillage during the growing period of the crops.

5. Secure a high content of humus in the soil by the use of legumes, barn-yard manure, farm refuse and commercial fertilizers.

6. Carry out a systematic crop rotation with a winter cover crop on southern farms.

7. Accomplish more work in a day by using more horse power and better implements.

8. Increase the farm stock to the extent of utilizing all the waste products and idle lands of the farm.

9. Produce all the food required of the men and animals on the farm.

10. Keep an account of each farm product, in order to know from which the gain or loss arises.

Get Ready for the Moles.

Moles are not vegetarians as is commonly supposed, but feed almost entirely on earth worms and insects. They are beneficial to a certain extent in destroying the larvae of various insects that are injurious to crops. The injury to plants commonly attributed to them is usually done by mice which follow the runs. Meadow mice are especially harmful in this respect. The mole is therefore only indirectly responsible for the injury, writes Prof. M. F. Miller of the Missouri Experiment Station.

The mice may be readily killed by the use of poisoned grains placed in the runs. To a certain extent, moles will eat fresh soft kernels of sweet corn in the roasting ear stage, and if such kernels are soaked for half an hour in strychnine syrup and placed in the runs, this is partially successful in killing them.

Strychnine syrup for poisoning either dry grain or grains of corn from roasting ears is made as follows: Dissolve one-half ounce of strychnine sulphate in a pint of boiling water; add a pint of thick sugar syrup and stir thoroughly. A smaller quantity may of course be prepared with proportional quantities of these materials. Dry grains, such as wheat, which is commonly poisoned for mice or rats, should be soaked over night in this strychnine syrup. Dry grains of corn may be poisoned in the same way.

Is the Potato a Paying Crop?

The man who has good potato ground should be happy. Potatoes are unquestionably one of the most profitable crops that the farmer can grow. Improved potato machinery has made great profits possible. Chief among potato planters is the Evans, manufactured by the American Seedling-Machine Co., Incorporated, Springfield, Ohio. This machine opens the furrow, plants and covers the seed in the best possible manner—far more accurately than can be done by hand. It has adjustable pickers that will handle all sized seed. Where artificial fertilizers are to be used, an accurate fertilizer attachment can be furnished, which is guaranteed to sow any and all brands. The Evans Potato Planter will pay for itself in a single season where the acreage is sufficient. One man or boy can operate the Evans under all conditions of seeding. It is light draft, simple and strong. Send to the manufacturers for a copy of their Evans Potato Planter catalog. If you want special information they will be pleased to answer your questions. After you have read this catalog, go to your implement dealer and insist on seeing the Evans—the machine that must and will do all the manufacturers claim. Take no substitute. Get the Evans—the machine that "makes good."

Kansas Farmer ads Always Bring Results

I CHALLENGE THE WORLD ON PRICE AND QUALITY.



NEVER SINCE CHRISTOPHER COLUMBUS DISCOVERED AMERICA!!!

No sir, never before in all history was such standard, high quality, superior manure spreaders, gasoline engines and cream separators sold at such extremely low wholesale quantity prices. Better machines, mind you in every way at only actual cost of material, labor and one very small profit based on these tremendous quantities: **30,000 Galloway Manure Spreaders, 14,500 Galloway Cream Separators, 7,500 Galloway Gasoline Engines** for this year. Anybody might just as well have one or all of these machines when they can get in on a wholesale deal of this kind. Be your own dealer, buyer and agent.

MY PROOF On the Galloway Spreader is the O. K. of 40,000 farmers. On my Gasoline Engine, the O. K. of 20,000 farmers. On my Cream Separator, the O. K. of 25,000 farmers. And 15,000 on my other machines, making over 100,000 farmers who have O. K'd the Galloway Goods of all Kinds.

THINK OF IT! 98 per cent of all of my customers who buy once buy from me every year. My business has grown from \$100,000 a year to millions of dollars annually. Why does every farmer who buys a machine of any kind from us, sell from one to a dozen more to his neighbors? Why has Prof. Holden and the members of the Corn Growers' Association of Iowa, unsolicited, O. K'd and recommended our great proposition to the farmers of this country after personally looking it all over?

NET RESULTS Are what count with you and every farmer in the corn crib, at the threshing machine, in the dairy, and at the bank. Get your name in to me for which one of these machines you want and I'll guarantee you'll be satisfied with the big net results each machine will give you. Remember I make a better manure spreader than any spreader made in the United States at any price, and sell it to you for a half less. I make a better gasoline engine than is sold by so-called standard companies—better, mind you, absolutely—and sell it to you for a half less. Same way on Cream Separators.

GET MY PROPOSITION FIRST and I'll leave the rest entirely up to you. Send me your name now, and join our big crowd—over 100,000 strong—of satisfied customers, 98 per cent of which stay right by us year in and year out, which is the real proof of the merit of my way of doing business. A farmer wrote in the other day and said that an agent told him if he sent his money in to Galloway and the stuff did not satisfy, he wouldn't get his money back. This is a deliberate lie, absolutely. You can get your money back as soon as you want it, if the goods don't please you. Could I have ever built up a business of millions of dollars annually on any other plan? Never in the world. Get your name in to me now. I can do you a lot of good for 1910.

President THE WILLIAM GALLOWAY COMPANY OF AMERICA
389 Galloway Station, Waterloo, Iowa

Positively only successful Wagon Box Spreader on the market today. Drive chains will not stay on others.

Sell your poorest horse and buy a 5 H. P. Engine Only \$39.50

Revolving Tank \$33.50 and up Freight Paid

Low Down Sanitary Perfect Construction Close Skimmer

CAUTION! LOOK OUT! I just want to caution you at this point against dealers, agents and imitators who, on account of my tremendous success, say things that are absolutely false. Some manufacturers who sell through dealers claim they are selling the Galloway under a different name. This is an absolute lie. The Galloway machines of all kinds are sold no other way than direct. Also look out for concerns who call themselves manufacturing companies who are not manufacturers at all. This I can prove, absolutely. There are two different institutions of this kind advertising in the Farm Papers, who are nothing but supply houses and merchants. Don't get fooled by them.

Fill out and mail this coupon to me this very day.

FREE TO YOU WM. GALLOWAY CO.
389 Galloway Station, Waterloo, Ia.

Here's my name and address—Send me FREE the catalogues I have checked.

☐ Manure Spreader ☐ Separator ☐ Gas Engine

Name _____

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New Matchless Roller Feed makes light draft

I save you one-half and give you better spreader

DISPERSION SALE

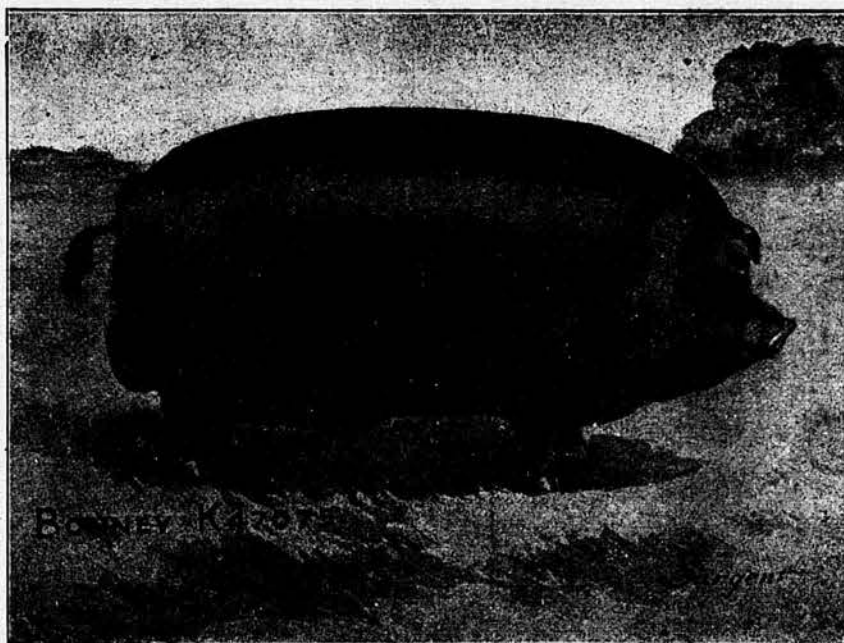
The Entire Herd of 45 Head

Duroc Jersey Swine

of R. G. Sollenbarger, Woodston, Kan., at farm

Including Proud Genevieve by Proud Advance, Belle's Peach 2d by Ohio Chief, Belle's Beauty by old Belle's Chief, Ruby Kant by Kant Be Beat, Ruby K. by Billie K. Jr. by Billie K. and out of Rosebud Lady, Wonder Girl by Nebr. Wonder, dam by Kansas Wonder.

Spring gilts by Red Wonder, Bonney K., Agra Top Notcher, Fitch's Kant and others equally well bred. Bred to Bonney K., Kant Be Beat 2d and Clark's Wonder by Red Wonder, champion at Illinois State Fair.

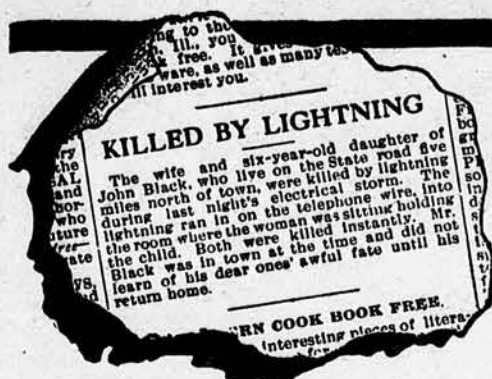


Send for catalog and attend the lifetime to secure sows by the sale. It will be the chance of a noted boars of the breed.

Auctioneers: J. W. Travis, Plainville, Kan.; W. T. Pfliederer, Stockton, Kan. Clerk, P. D. Scott, cashier Woodston State Bank. J. W. Johnson, Fieldman for Kansas Farmer.

R. G. SOLLENBARGER
Woodston, Kan.

Wednesday, February 23, '10



Prevent Such Accidents In Your Family

You are not doing your duty to your family unless you take every precaution to protect them as well as your buildings. A reliable lightning conductor is the only way. Without it, all that makes life worth living is at the mercy of the most destructive of nature's forces.

NATIONAL FLAT CABLE

(Patent Pending)

Fills all the requirements of the U. S. Government, the English War Office, the most learned scientists. Leading investigators in this country and abroad all agree that a flat cable of pure copper has greater conducting power, offers least impedance, least liability to side flashes and induced currents.

National Flat Cable (pure copper) is the only flat cable on the market.

We use pure soft copper only, and guarantee our cable to give positive protection. This guarantee, given in writing, is absolutely binding and our references assure you of reliability. Ask your banker to look up our standing.

Our Men Are Experts

Proper installation is as important as the conductor itself. Seemingly trivial matters, like failure to connect up a nearby pipe, pump, or the telephone, will often result in extensive damage.

The terrible disaster mentioned in the above clipping can never come to the man whose home is rodged with National Cable, in accordance with the National System, which means that the telephone will be protected by the National Lightning

Arrester (patent applied for). This Arrester is entirely automatic—requiring no attention whatever, and is so made that the rain cannot work in and short circuit your telephone.

Let us tell you what it will cost you to rod your buildings with National Cable. Write full particulars so we can make estimate. We will also send interested parties a book worth having, "The Laws of Lightning."

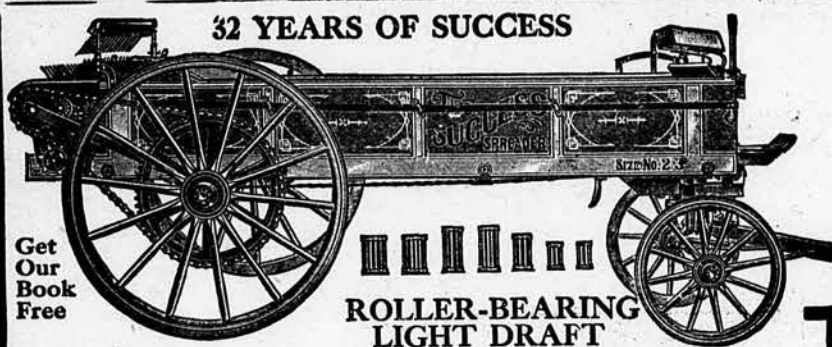
We need a reliable representative in a few open territories.

National Cable & Mfg. Co., 53 Cable Street, Niles, Mich.

Straighter Rows Than Ever

Revolving steel disk marker for corn-planters. Can be placed on any wood or pipe staff. Big improvement over the old cast drag. The staff goes through the hub casting which carries the flange that the disk revolves on. Every farmer takes pride in seeing the straight rows he can drive with it. Weight 6 pounds—13 inch steel disk. Price \$2.00 at your dealers. If your dealer hasn't it, write us for full particulars and you will be supplied.

(2) **NATIONAL HARROW COMPANY Box 109 LEROY, ILL.**



SUCCESS SPREADER

The only spreader with a 32-year record of good work. Simplicity, Durability and Light Draft always foremost. Direct Chain Drive. No Cog Gears. The choice of men who investigate thoroughly. Wood or metal wheels. A generation of experience back of every Success. The leader from the first. Exclusive features all patented. Catalog of facts Free. Write us promptly.

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Keep It Off The Cows Put It On The Fields

No matter how hard you try you can't make an old stable with dirt floors and wood partitions sanitary—you can't keep it clean and sweet. Wood partitions gather dust and disease germs. Dirt floors with their tramped-in filth should never come within a stone's throw of your milk pail. When a cow gets off her feed and her milk yield falls below normal, look to your stable. It may be as clean as you can make it, but that may not be clean enough. Equip your stables

The Louden Way

then profits will not fall off. The cow that is best treated gives the most milk—the best milk—the richest milk. She has a heap of cow sense. She appreciates light and air, and she will see that you get your money back for making her home modern. If you will put a Louden Litter Carrier to work behind her, your boys or your man will clean the barns in less time and with less labor. We have been fitting up barns for 50 years. We will be glad to give you the benefit of this experience by suggesting what you need for yours, without any expense to you. Send for catalog, tell number of cows you have and submit rough sketch of stable.

LOUDEN MACHINERY COMPANY 639 Broadway, Fairfield, Iowa.



A P I A R Y

A Few Hints To the Beekeeper.

If you see many dead bees in front of your hives after a warm spell in winter, don't be alarmed. The strongest and best colonies are apt to have the most dead bees in front of them. It only shows that they are able to clean out. Examine all colonies that have no dead bees in front of the hive. You will nearly always find a dead colony. If the bees are dead clean them out to keep the combs from molding. Examine the combs for foul brood. If the combs are in a healthy condition nail up the hive to keep the mice away from them. If they are foul broody combs destroy them by burning.

Do not keep your bees confined to the hive in warm winter days, for bees to winter best should have a flight every two weeks. A strong colony of bees will never be bothered with the moth. You sometimes hear people say that the moth got in and killed their bees. Not so. The bees dwindled so that there were but few bees in the hive or they were dead entirely. Then the moth took possession and destroyed the combs.

A good bee smoker and bee veil are indispensable. Don't say: "I have no luck with bees." It's all in the care you give them. Don't imagine that keeping bees is all clear profit and no work. The best time to handle bees is in the warm part of the day. Bees are more irritable in the cool of the morning than in the middle of the day. Bees in the shade of trees are more cross than those that sit out in the sun. Bees will do better out in the sun with a shade board in hot weather.

To remove a stinger rub it off. Never pull it out with your thumb and finger. There is a poison sack in the butt of the stinger and by pressing it with the thumb and finger you inject all the poison into the flesh.—E. Davison, Garden City, Kan.

Cutting Foundation and Putting It in Sections.

The best and quickest way to cut foundation is in a mitre-box. Make a box a little longer than the sheets of foundation you wish to cut, and just wide enough so that it will go in easily. A box three or four inches deep will hold a pound or more of foundation. Then take a square and pencil and space off the upper edges of the open box into such lengths as you see fit, one, two or three inches or whatever width you want your starters. Now take a sharp saw and saw down to the bottom of the box. You are now ready to put in your foundation.

In cutting I use a scalloped bread knife, the sharper the better. Wet the knife when it begins to stick. You can put 25 or 30 sheets in the mitre-box at once, and cut down through them all at the same time. If you make the box square, the starters will be square, which is very important. We might call this one of the short cuts in beekeeping, and if a person is keeping many bees and has other work, it pays to take as many short cuts as possible.

I would recommend putting in top and bottom starters. It takes a little more foundation, but it pays in the long run. You get better filled sections, more uniform in weight, better attached to the bottom. Hence, they will be better shippers. Comb honey breaks down easily if it is not well attached to all four sides, especially in cold weather. Make a block, one-half the depth of a section and just large enough so that a folded section will slip down over it easily. Now tack this block to a board say 5x12 inches, put the section over this block, put in the top and bottom starters at the same time. Have some melted wax nearby, and with a small brush drop a little wax on the foundation, where it is to be attached to the wood. Pick up the board and let the melted wax run along the edge of the foundation and it is fastened securely, much better than with any hot plate fasteners.

There may be quicker ways of putting in foundation than this, but you have the satisfaction of having your foundation in so it will not fall out, like it does with many of the hot plate fasteners.

Queen Bee Raising.

Modern queen rearing is a very accurate and exact science. Some think that artificially reared queens are not as good as queens reared at swarming

time, but my experience is that they average better than queens that are reared at supercedure and swarming time. Of course, there is no such thing as artificially reared queens. We only assist nature. Queen breeders either rear queens in a queen right or queenless colony. While I rear queens both ways, I much prefer a powerful or two very strong colonies combined and made queenless, broodless and if there is not a good honey flow on the colony should be fed on honey diluted with water to about the consistency of freshly gathered nectar. Under no circumstances feed sugar syrup to a queen rearing colony, as honey is their natural food and has never been diverted or perverted by cooking. Furthermore, I do not believe that good long lived prolific queens can be reared on sugar syrup. Of course, it might not make much difference in the first generation, but if kept up the queens would no doubt become short lived.

All queen rearing work, such as grating artificial cell cups with royal jelly, then transferring larvae to them should be done in a very warm room at a temperature of about 96 or 98 degrees, as the temperature of a cluster of bees is about that. Bees never expose their larvae to a cool atmosphere, and how could we expect to get good prolific queens from larvae that have been chilled? Queens from cells that do not have a lump of royal jelly left after the queen has emerged should not be saved, as a large lump of royal jelly shows that the queen has been well nourished, therefore insuring a good queen if other conditions were all right.

It takes close and attentive observation to determine the colony that has the finest breeding queen to breed from, and your success in the production of a superior strain of honey gatherers is just in ratio to the time, energy and skill you put into it, as time does not preserve that which it cost no time to create.

Almost any race or strain of bees will gather honey in large quantities if given combs already built and run for extracted honey, but to determine which are the most energetic workers as well as non-swarmers it is necessary to run our colonies for comb honey. If we can keep our colonies from swarming any one knows that they would make twice as much honey. By careful line breeding and selection we can produce a strain of bees very near non-swarming. Then by giving plenty of super room and ventilation we can reduce the swarming to the minimum. I favor line breeding, which is scientific inbreeding, as I think it is the only way we can ever reach perfection, if that is possible.

To show you what can be accomplished in a few years by careful line breeding, I will state that for the last five years I have never had more than three or four swarms, and this year was a year of excessive swarming.—W. M. Parish, Lawrence, Kan.

Study Your Business.

The season of the year is at hand when plans for the coming summer should be well matured. A large part of the success of the season depends upon the planning and thought given to it. While it is true that no amount of planning can make up for poor execution, it is also true that the most diligent efforts can not atone for lack of forethought. Planning for the coming season should be in the light of the knowledge of previous years, and that gained by observation of the work of others. The one mistake that is found among beekeepers everywhere is the failure to study the work of the past and profit thereby.

In every locality there are outstanding successes and outstanding failures. These may be of a single crop or they may extend to all branches of apicultural work. There could not be this variation when conditions as to nectar producing plants, etc., are similar, without some reason. Why has one failed and the other succeeded? Have you ever taken the trouble to solve the problems thus presented in your own experience, and that of your neighboring beekeepers? If not you have been missing one of the most valuable sources of practical information. Sometimes the reason why is not so easily determined, but in most cases the thinking man can find it, and when he has learned to hunt for these hidden treasures and then use them in his apiary, put them

in practice, he is in a fair way to achieve the success that every man prizes. The writer has seen men in what were called poor localities achieve better results than their neighboring beekeepers with much better conditions. The one had given thought and energy to his work, the other had not.

The fact is that too many of us have never learned to think and reason. We have accepted the traditions and customs handed down to us without questioning their value or determining a reason for their use. They may suit our conditions or they may not, and until we know, we can not keep bees intelligently. The beekeeper should be the greatest reasoner on earth. He has every condition favorable for the development of reasoning powers. He is breathing the pure, fresh air continually, is furnished with an abundance of helpful exercise and has before him always problems for his solution, changing a hundred times a day to meet constantly changing conditions. No need to go into one of the so-called professions to develop the mind, the opportunity is before him continually.

Why then is the ordinary beekeeper not a reasoner? Because he works by rote rather than by reason. If a beekeeper moves into a new locality and follows methods in advance of his brother beekeepers he will be watched closely, and if he succeeds, his methods will gradually become the common practice of the neighborhood. His neighboring beekeepers borrow his methods or often unconsciously slip into them. Beekeeping by rote they have adopted the practices of the successful one without caring to find out why they are superior to their own. They have cheated themselves out of the mental development they might have had and have degenerated into mere imitators instead of workers and investigators.

These criticisms do not hold true of all beekeepers, but of too large a percentage of them. There are men in every community who are thinking, reasoning and investigating and are of inestimable value to their neighboring beekeepers and apiculture work everywhere. All honor to them, but there should be more of them.—J. C. Frank, Dodge City, Kan.

Testing the Four Breeds.

The animal husbandry department of the Kansas College of Agriculture is conducting an experiment in the breeding of beef cattle, which will doubtless bring to light some important facts with regard to the relative merit of the four great breeds. The idea of conduction such an experiment originated with Prof. R. J. Kinzer, professor of animal husbandry at the Kansas College. The experiment is being conducted on the government reservation at Hays, Kan., and it will be closed in the fall of 1911.

Last spring there were placed in the pastures of the reservation, 25 head of cows of each the four beef breeds: Shorthorns, Herefords, Aberdeen Angus and Galloways. All of the cows of each of the breeds are as nearly pure bred as was possible to obtain at the nominal cost appropriated for their purchase. The 25 Shorthorn cows raised 25 calves sired by a pure bred Shorthorn bull. The same number of Herefords raised 24 calves by a Hereford bull; the same number of Angus cows raised 22 calves sired by a pure bred Angus bull; and that number of Galloway cows raised, 25 calves sired by a pure bred Galloway bull.

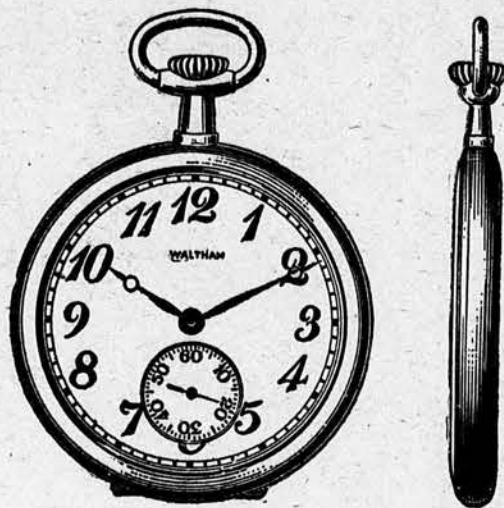
The calves were separated according to the breeds they represented, and were weighed on Dec. 1. There was at that time a variance of only eight pounds in the average weights of the calves of the different breeds.

It is proposed to get three crops of calves following the same methods employed last year and at the end of that time, that is, when the last crop of calves are ready to wean, there will be made a summary of the records made by the various lots of cows. The calves will be separated by breeds and the steers and heifers of each breed will be kept separate and fed separately.

The records and the cattle of the different ages will be submitted for public inspection in the fall of 1911, when the last crops of calves are ready to wean. Professor Kinzer proposes to have a convention of cattlemen at the ranch at that time, so that they may study the results of the breed competition. The followers of each of the beef breeds, as well as the general public, will be interested in learning the results which will be deducted from the processes of breeding and feeding.

WALTHAM WATCHES

The Authentic American Watch



There was a time when the term "American Watch" was one of contempt at home and abroad. To-day Waltham Watches are the standard pocket time piece from Christiania to Cape Town, from Melbourne to New York.

Peary used them in discovering the North Pole and the whole world pays respect and good will to their accuracy and honesty.

Beginning with the exposition of the Massachusetts Charitable Mechanic Association held in Boston in 1856, and up to the present time Waltham Watches, wherever exhibited, have taken the first prize and highest award at all the national and international expositions, including that at Seattle in 1909.

WALTHAM WATCH COMPANY,

WALTHAM, MASS.

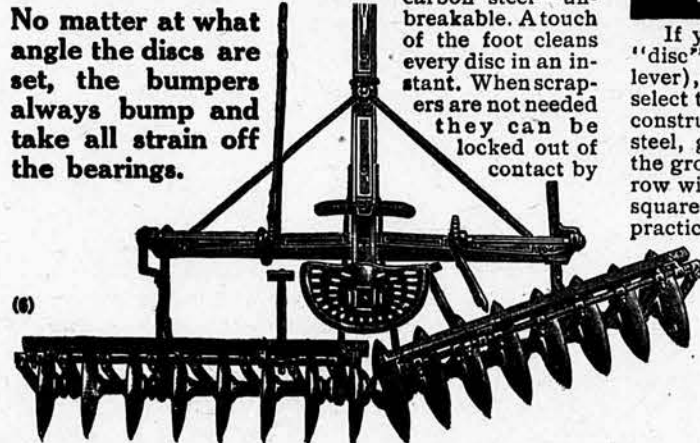
Send for the "Perfected American Watch," our book about watches.

The Bumpers Always Bump

on Rock Island Disc Harrows—no matter whether you prefer the single or double lever rig. This means no side strain or end thrust on the bearings, no matter how deep the discs are set to work. One gang works against the other and the friction-proof ball bumper takes all the strain. That's why Rock Island Disc Harrows never get warped or twisted out of shape, why the draft is so easy and why the bearings remain good as new for years and years after any other Disc Harrow on the market has worn, twisted and racked itself into a mess of junk. And it's a good reason why no farmer is ever satisfied with anything but a Rock Island Disc after he has tried one or seen it work.

There are other patented features just as important, which mean just as much to a farmer in extra efficiency and wonderful durability. The scraper blades are of high carbon steel—unbreakable. A touch of the foot cleans every disc in an instant. When scrapers are not needed they can be locked out of contact by

No matter at what angle the discs are set, the bumpers always bump and take all strain off the bearings.



foot levers within easy reach. On most Disc Harrows the scrapers are always in contact—bind somewhere all the time. It's mighty hard on the team—like dragging a wagon with the wheels chained.

There are a lot of other points just as important which we can't tell you here, all of which taken together make Rock Island Disc Harrows the best, longest lived, most efficient and easiest to operate of any harrow made, irrespective of price, as can easily be proved by the testimony of more than 100,000 farmers who have tried all kinds and settled down to the good old reliable

Rock Island DISC HARROWS
DEFIANCE Single Lever
BONANZA Double Lever

If you want a harrow where one gang can be given more "disc" than the other you should select the Bonanza (double lever), or if you prefer to have the gangs always at the same angle, select the Defiance (single lever). Aside from these differences the construction is the same. Rock Island Discs are high grade coulters steel, ground, sharpened and polished and guaranteed to enter the ground by their own suction. No need to weight down harrow with rocks. Axles or head pins are heavy and strong— $\frac{7}{8}$ in. square instead of $\frac{3}{4}$ in. Bearings are hard maple, boiled in oil, practically dust proof and self-clearing. They should never need renewing. More Rock Island Disc Harrows are sold than of any other two makes on the market.

Before you decide on a Disc Harrow, see the Rock Island at your dealer's and make comparisons. We'll leave the decision to your own good judgment; or ask for catalog and nearest dealer's name.

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Kansas City, Mo.

Know My Incubator— Know My PLAN.

My plan is so liberal that you will enjoy dealing with me, and my "QUEEN" incubator is such a good, substantial money maker for your farm that you and I will both be more than satisfied to become poultry friends.



I Pay the Freight.

Just drop me a line, so I can explain my proposition and let you see pictures and letters of my farm friends who use "QUEEN" Incubators. Please do it to-day. I am still including one of my handy Poultry Record Books with my Catalog. It enables you to keep exact figures on hatching and to know how much you are making. I want you to know these facts when you try out a "QUEEN," because it will prove conclusively that you are getting all the poultry profit that can be made.

Pick out from my catalog the size you want and I will just fix you up to your entire satisfaction—make you a low price, a long time guarantee and allow you an extended trial. Write me to-day or you may forget it.

Wickstrum, The Queen Incubator Man,
Box 28, Lincoln, Neb.

S. C. REDS, winners 40 prizes; heavy layers; stock and egg circular free. Chas. Ross, Box 24, Blair, Neb.

BARRED ROCKS—High class Show and Utility Stock. Pen eggs, \$3.00 per 15; \$5.00 per 30; Utility, \$4.00 per 100. Send for circular. No stock for sale. C. C. Lindamood, Harvey Co., Walton, Kansas.

FOR SALE.
Choice Buff Wyandotte cockerels, \$1.00 and up.
MRS. D. G. INSKEEP,
Phone 1012, R. R. 7, Manhattan, Kan.

THIS ADVERTISEMENT IS GOOD
for 25 cents on two settings of eggs from four leading utility breeds. Send postal card for price and score of birds.
J. S. McClelland, Clay Center, Kan.

BARRED ROCKS—Bred for beauty and profit, 31 premiums. Stock for sale. Eggs for hatching. Address Mrs. D. M. Gillespie, Clay Center, Kan.

100 S. L. WYANDOTTES.
Cockerels and pullets from birds that win at St. Louis and Kansas State Shows.
M. B. Caldwell, Broughton, Kan.

EVERGREEN POULTRY FARM.
Choice Barred P. Rock cockerels, \$2.00 to \$4.00; hens, \$2.00 to \$3.00; eggs from yards, \$2.00 per 15. Farm range, \$6.00 per 100.
E. Leighton, Effingham, Kan.

FOR SALE.
A fine lot of R. C. B. Leghorn Cockerels, farm range exclusively, \$1.00 each or six for \$5.00. Orders filled promptly and satisfaction guaranteed. Eggs for hatching in season. Mrs. O. B. Smith, R. R. 1, Cuba, Kan.

EGGS FOR SALE.
From fancy S. C. Buff Orpingtons. Pen, \$1.33 for 15; pen 2, \$2 for 15; farm range, \$1 for 15; incubator rates, \$5 per hundred.
MRS. S. T. WHITE of WHITE BROS.,
R. R. No. 1, Buffalo, Kan.

"Hardscrabble" Leghorns.
Single Comb White exclusively. 50 cockerels, have never run with hens since they began to crow. Eggs for hatching in their season.
M. M. WHEELER, Jefferson, Kansas.

SHELLEY BROS.' BARRED ROCKS
always win. At Central Kan. Poultry Show Dec. '09, 14 regular and 4 special prizes. State Show and Cent. Kan. last season, and State Fair, 3 premiums, 144 firsts, 2 sweepstakes, \$10 cash special. Sales guaranteed. Shelley Bros., Elmdale, Kansas.

EGGS EXTRA WELL PACKED.
\$1.00 per 15; \$5.00 per 100. From White Faced Black Spanish Leghorns, Wyandottes, Rocks, Rhode Island Reds, Light Brahmas, Black Langshans, and Black Tailed Japanese Bantams. Each bred on separate farms. (Circular Free.)
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BUFF COCHINS.
For sale cockerels, \$5 up, females \$2.50. Trios \$10.00. Von 27 prizes, 1909.
J. C. BAUGHMAN, Tonks, Kansas.

BUFF ROCKS—Vigorous farm raised prize winners. Eggs by the setting or hundred. Circular free. W. T. and Mrs. C. V. Ferris, Box 406, Effingham, Kan.

TWENTY-ONE VARIETIES TO SELECT FROM.
Won \$1,500 in cash prizes this season at American Royal Pratt, St. John, McPherson, Larned, Hutchinson, Electric Park, Bird, Garden City, Shawnee and Kansas State Poultry Show, Wichita, 1910. Stock from 8600 eggs to select from. Write
MR. AND MRS. OTIS H. CROW, Hutchinson, Kansas.

EGGS, CHICKS.
S. C. White, Brown and Buff Leghorns and R. C. R. I. Reds. Bred from heaviest laying and winning strains. Eggs for hatching, and day-old baby chicks. Book your orders now for future delivery. Write for circular and prices.
PROSPERITY POULTRY FARM,
Barnes, Route 2, Kan.

S. C. BUFF LEGHORNS.
No more stock for sale but eggs from prize winners. Pen 1, \$2 per fifteen; pen 2, \$1.50 for fifteen. Incubator lots \$6.00 per hundred.
CEDAR GROVE POULTRY FARM,
M. KLEIN & WIFE, Props., Kansas.

Tenneholm Farm Black Langshans
A LOT OF GOOD COCKERELS FOR sale. Prices reasonable. Eggs \$1.50 for 15.
MRS. E. S. MYERS, Chanute, Kansas.

5,000
Orpingtons, Rhode Island Reds, Leghorns, Rocks, and Wyandottes for sale. Each variety bred on separate farms from prize winning stock. We will send catalog free.
L. P. HARRIS, Clay Center, Kansas.

POULTRY



Have you mated up your breeding pens yet? If not, it is time you were doing it.

What about grading up your farm flock this year? Have you sent off for that pure bred rooster you were talking about?

There is no time like the present for improving your flocks. Delays are not only dangerous but ruinous. Start the improvements at once.

Scanty feeding and abundant egg-production do not go together. A laying hen must have plenty of feed and that of the most nutritious kind.

You should avoid feeding anything that would impair the flavor of the egg. Onions, decayed vegetables and musty grain will taint the egg if fed to the laying hen.

Poultry and dairy farming go well together. Milk fed to poultry in all forms, produces good results. However, care should be taken to keep the dishes clean and sweet.

Farmers are apt to give their chickens a long continued diet of one kind of grain and just because one kind is generally all they have on hand. The fowls would do much better if a variety of feed were given them and it would pay the farmer to sell some of the feed he has on hand and buy with the proceeds another kind of grain, so as to provide a variety.

The New York Experiment Station found that cockerels fed meat gained 56½ per cent more weight, and that pullets laid eight weeks earlier than those without meat, but otherwise on a similar diet meat-fed ducks were out of sight of those deprived of it. Again the experiment was tried with a more careful attention to a supply of mineral matter for those without meat, and it was found vegetable protein could largely take the place of meat in the case of chickens, but not with ducks. The ancient fish-eating habits of the latter are too near the surface.

Raising Cockerels.

Last season we advertised 50 cockerels in this paper, and the same number this season, and judging from the variety of inquiries received regarding the business, a short article on the subject might not be amiss. We would state our method of procedure with the breed we handle, Single Comb White Leghorns. Other breeds might differ in detail.

The young chicks are allowed to run together until the cockerels begin to crow, when they are moved to a quarter of their own, and are not allowed to mingle with hens until they are sold. They make little trouble until about December when their passionate nature begins to assert itself. They require a high fence to keep them where they belong, and the best of winter quarters to prevent frost bites. They must be well cared for and grown to as near perfection as possible. We give them the same care as pullets that we are aiming to have laying in October.

Our cockerels have a lot of about three acres to range over. As far as we are concerned, there are no professional secrets about the whole business. In regard to the cost of producing a good one, we have found the cost as follows: We start June 1 generally; the bird is worth 25 cents as a fryer on the market; for the first six months the cost is about one-half cent a day or 15 cents per month. The last three months costs about 16 cents per month. We have them on hand about nine months and we find the cost to be the first six months, at 15 cents, 90 cents; last three months at 16 cents, 48 cents; total, \$1.38. This is for care, feed, etc., but the value of the bird at June 1 should be added. These birds are big, lusty fellows with any amount of snap and vigor. There is also some loss which must be counted. A coop for shipping and several other small items of expense.

Starting June 1 there will be a clean loss of 10 birds from different causes,

probably 12, that for some cause would have to be sold for \$1.00. Now what ought the balance to be sold for to get even? Now the expense is known what ought the breeder to have for his bird? The above is simply expense.

People have to be shown, and we started to sell 100 birds at cost to show that a bird raised this way is worth several that are allowed to run with the fowls during the season. And if the people don't think so we will sure quit the business. Vigor of laying stock can be kept up no other way than using the most vigorous cockerels.—E. M. Wheeler, Jefferson, Kan.

Running an Incubator.

In my Experiment Station work. I have had to handle a great many makes of incubators ranging in capacity from the little 50 egg machine to the 240-egg machines and I have concluded that a few general principles apply to all of them; by keeping these in mind, one can successfully handle any make of incubator.

In the first place, one should not try to operate an incubator in cold weather, in a room that gets so cold that the lamp flame must be turned up to the limit to keep up the required heat. Smoky lamps and a poor hatch are the inevitable results. The temperature of an incubator room should be from 60° to 75°, and a room that varies from 40° to 90°, would be a poor place to operate an incubator. A cellar, is an ideal place, providing it has proper ventilation; while we do not believe that air centers an egg while it is in the incubator, yet they must be cooled and aired every day after the third day of incubation, and the air should be pure and not filled with poisonous gases from the lamps. While the shell is porous, the membrane lining the shell, is not, and only allows the passage of air or gases when cooled when the contents contract and form a vacuum, thereby drawing the air through the shell.

Eggs have been hatched, enclosed in an air tight vessel all during incubation, very little ventilation is required in the machine; but at hatching time they should have all the fresh air that can be given without lowering the temperature.

The temperature, is another thing that is not understood by everyone. It is not absolutely necessary to keep the temperature at exactly 103°, a variation between 102° and 104° is alright, providing that other things are right. Better too low than too high.

The moisture question enters largely in a good hatch. Sometimes the air surrounding a machine is surcharged with moisture, and it would be a detriment to the hatch to apply moisture to the machine, while at other times, moisture must be applied to get a good hatch.

In applying moisture, if only a small amount is required, a wet blanket hung near the incubator or a bucket of water set under it is sufficient, but if the eggs are drying down too fast, moisture must be applied directly to the eggs, by sprinkling them with warm water, by placing a wet cloth in the machine, or by using wet sand trays. If the operator does not understand when to apply moisture, he should get a Hygrometer or moisture gauge to place in the machine, this will show him when to, or when not to apply moisture.

Another thing, all parts of an egg chamber are not of the same degree of heat, some being hotter in the middle, and some at the end nearest the heater; eggs must shifted around every day.

In testing the eggs, you will find some that are from 12 to 24 hours behind the rest, these should be shifted to the part of tray having the

LOOK! LISTEN!

Don't wait until the last minute to order your Chks. Some of my breeds are sold out now. I still have a good supply of S. C. White and Brown Leghorns, S. C. White Minorcas and B. P. Rocks. Get busy. Order now. Price \$2. Address

WALTER HOGUE, Fairfield, Nebraska.

Get Johnson's
New Book Right
Away — Best
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Today



BE SURE to raise chickens this year—and I ask you, old friend or new friend, to send me your name early for my new 1910 Poultry Book. It's better than ever—every page a poultry sermon—over 200 pages and over 1,200 photographic pictures showing you—

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I pay the freight to you east of the Rockies and "Old Trusty" does the rest. Get my 1910 poultry book, by a man who knows how to raise chickens—from 15 years' experience.

My "Old Trusty" is simple and sure—California Redwood—Asbestos-and-Metal-Encased.

Every part made for use—nothing superfluous. I make quick shipments. Don't pay two prices. Buy direct from me no matter where you live.

75 per cent better hatches guaranteed. "Old Trusty" runs itself and pays for itself most quickly of all.

"Simple and sure" is what over 150,000 beginners and experienced poultry raisers have proved.

**10-Year
Guarantee
40, 60 or
90 Days'
Free Trial
75% Better
Hatches
Guaranteed**

Consider the cost to you this year. Investigate my 1910 "Old Trusty" incubator before you buy. My price will be lower to you—something below \$10, anywhere you live—freight prepaid east of the Rockies. Send your name for my book today. I'll answer quick.

M. M. Johnson, Incubator Man
Clay Center, Neb.

\$7.55 Buys the Best
140-
Egg
Incubator

Ever Made

\$4.50 Buys the Best Brooder
Both Incubator and Brooder, ordered together, cost but \$11.50. Freight Prepaid. The Belle City Incubator has double walls and dead air space all over, copper tank, hot-water heat, self-regulator, thermometer, egg tester, safety lamp, nursery, high legs, double door. The Belle City Brooder is the only double-walled brooder made, hot-water heat, platform, metal lamp. No machines at any price are better. Write for our book today, or send the price now under our guarantee and save waiting.

**Satisfaction
Guaranteed**
Belle City Incubator Co., Box 18, Racine, Wis.

A Town Lot is Big Enough

Poultry raising possibilities were never better. Profitable on small or large scale. Geo. H. Lee knows. He started in a small way. He now has 3000 laying hens. He invented the Mandy Lee Incubator, the Mandy Lee Brooder, and all the appliances he could not buy. He experimented with his own money, not customers'. The

Mandy Lee Incubator

was offered to the poultry public when perfected, not before. Inexperienced can start with Lee's twenty years' successful work. Lee's "Chicken Talk" a book written by Mr. Lee himself, and his Incubator and Brooder catalogue are ready to mail. Both free. Send for them to-day. There is no poultryman's need omitted from this catalog. It is a complete showing of the things that made Mr. Lee a successful poultry raiser.
GEO. H. LEE CO., 1137 Harney St., Omaha, Neb.



\$10.15
FOR THIS 100 EGG FIREPROOF,
AUTOMATIC,
BROODER-INCUBATOR

or two for \$19.80, with all fixtures complete. Freight paid east of the Mississippi. Special rates further west.

A TWENTIETH CENTURY WONDER.
HATCHES and HOVERS like a LIVE HEN. One Regulator. One lamp. Saves ONE HALF operating expense. FIRELESS BROODER ATTACHMENT. Practically FOUR MACHINES IN ONE. POROUS VENTILATING SYSTEM. 80 percent hatches GUARANTEED. 40 or 60 DAYS TRIAL. A GOLD MINE ON ANY FARM.

Order direct and save time, or send for FREE BOOK "777," fully describing this remarkable invention. Address
NEW METHOD INCUBATOR CO.,
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Victor Incubators and Brooders

Quality tells in hatcheries, right principles, right materials, right building, right ventilation, right regulation, means more chicks and greater profit. Victor quality costs but little more and the difference on one or two hatches more than pays it. Write us first. Our book "About Incubators" will be sent free. It has important information for incubator buyers. GEO. ETEL CO., 167 Kentucky St., Quincy, Ill.

RAYO INCUBATOR

SAVES Money, Labor, Oil.
 Note: 1st—Double heating system gives equal radiation.
 2nd—Turn eggs without removing tray.
 3rd—One filling of oil tank for entire hatch. 70 day trial guarantee. If not as represented return and money refunded. Freight prepaid. Write for Free Book. The RAYO INCUBATOR CO., Wash. St., Blair, Neb.

Partridge Wyandottes

100 excellent farm raised breeders and show birds for sale; won 1st hen, 1st and 2nd pullet, 2nd cockerel and 2nd pen at Newton Poultry Show, Dec. 6-11, 1909. Write W. R. Fretz. Arkansas City, Kan.

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Garden Seeds of every kind—selected, full matured, the best varieties of every sort. Our Seeds and Plants have been tested for over 25 years. Our plants are fine, healthy, well grown stock. The variety is endless. Ferns, ever blooming Roses, Geraniums, sent by mail, express, freight, safe arrival guaranteed. Ornamental Shrubs. Fruit Trees, and Bulbs of all descriptions. Our Catalog in colors is free, send for it to day. \$50. FREE Price offer, the Catalogue tells. Archias Seed Store Corp. Box 17 SEDALIA, MISSOURI

SPRAYING FRUIT TREES

is no longer an experiment, but a necessity. Prevents wormy fruit by destroying all insect pests and fungous diseases. Every farmer, gardener, fruit or flower grower should write for our free catalogue, describing 21 styles of Spraying Outfits, and containing a full treatise on spraying fruit and vegetable crops, and much valuable information. WM. STAHL SPRAYER CO., Box 3-A, Quincy, Ill.

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PRICES BELOW ALL OTHERS
 I give a lot of new sorts for trial with every order I fill. A Grand Big Catalog Illustrated with over 700 engravings of vegetables and flowers. Send yours and your neighbors' addresses. R. H. SHUMWAY, Rockford, Illinois

Reliable SEEDS THE KIND THAT GROW

How and When to Plant Them.
 All kinds of Farm and Garden Seeds, Plants, Bulbs, Roses, Vines, Fruit and Ornamental Trees AT WHOLESALE PRICES. Small quantities by mail. Safe arrival and satisfaction guaranteed. Buy Harnden's Seeds this year and you will want them next year. Write for large illustrated book and special offer to early buyers. HARNDEN SEED CO. 505 Walnut St., Dept. 11, KANSAS CITY, MO.

SEEDS FREE 9 LARGE PACKETS

BIGGEST SEED OFFER EVER MADE
 Send 10c for packet of our wonderful Earliest Tomato and receive four 1c PACKETS FREE of our latest improved varieties: 1 each Cabbage, Cucumber, Melon and Pepper. Also 25c cash certificate for 5 free packets, your selection, or apply as 25c cash order. Send 10c today and receive all above. Our big 100-page catalogue free. Address A. A. Berry Seed Co., Box 305, Clarinda, Ia.

The Great Worlds Fair Prize Winning SEED CORN

Garden seeds and grass seeds in bulk. Poland China hogs, Barred Rock cockerels and Scotch Collies. My 1910 catalog free; it's full of good common sense. Write now.

The Lawndale Seed Farm, John D. Ziller, Prop., Hiawatha, Kan.

TREES You can save from 25 to 50 Per Cent

buying Nursery Stock direct from me. I prepay transportation charges on every order, large or small. You have no unexpectedly large freight or express bills to add to the cost of your order. The money-saving price you pay me means for trees at your station. All trees guaranteed true to label, hardy, large size and satisfactory. Send for my catalogue and get a list of my delivered-to-you Nursery Bargains. Better write now. WICHITA NURSERIES, Box 2004 Lawrence, Kansas.

highest temperature, so they may catch up with the rest or an uneven hatch will result.

The more heat, the faster the embryo grows and the larger the air cell; so those eggs having the largest air cells should be shifted to the coolest part of the machine. Sometimes the air cell gets to one side of the egg showing that the egg has not been turned often enough. The side having the most air cell, should be turned down as gravity causes the heavy part of the egg to settle to the lower side. Best results are obtained, when the eggs are turned two or more times a day. Every one understands that to get a good hatch, one must have good hatchable eggs which can only be produced by strong healthy breeding stock.

There are only four kinds of fertilized eggs that will not hatch. The little round marble egg, the flat sided egg, the double shelled egg, indicated by a ridge around the middle, and the double yolked egg.

Carbon Dioxide:—The air under a hen, shows 35 per cent carbon dioxide. In an incubator the ventilation must be very carefully balanced to hold more than 30 per cent carbon dioxide.

Carbon dioxide together with plenty of moisture, causes the shell to be soft and easily broken. There is sufficient carbon dioxide given off by the eggs, so all that is necessary, is to give correct ventilation and not enough to carry away too much carbon dioxide.

The Kind of Machine:—There is no difference in the effect on the eggs whether the heat is supplied by hot air or hot water. It is the proper degree of heat and moisture which causes the egg to hatch.

The hot water machine heats the eggs with hot air radiating from hot water tank. This tank filled with hot air would give the same result.

Both the hot water and hot air machines are alright if properly constructed in accordance with the size of heater and egg chamber. The hot water machines usually give best results, because it takes it longer to become over heated or to get too cold, thereby giving the operator more time to adjust it to the changes caused by outside temperatures. The theory that the hot water tanks sweat thereby causing moisture, is as untenable as the theory that a hen sweats. Birds do not sweat.

Beware of incubators that have a deep cold nursery where the chicks may tumble down into it before they are dry, as they will get chilled and bowel trouble will result. If you have such a machine, stretch sacking over the nursery tray so as to bring the chicks up close to the eggs where they will keep sufficiently warm.—W. A. Lamb, Kansas Experiment Station, Manhattan, Kan.

Oats.

I am planning on sowing several acres of oats this spring on corn stalk land. What preparation of soil would you suggest, also what variety of seed do you think would be best for this section of the state?—R. H. Monroe, Lyons, Kan.

I would advise to carefully disk and harrow the corn stalk land for oats in preference to plowing unless the plowing can be done in the winter or the land may well have been plowed in the fall. Spring plowing of this corn stalk land is apt to leave the soil in a lumpy, cloddy, undesirable physical condition while by disk-ing and harrowing an ideal seed bed may be prepared and this method of sowing oats on corn stalk land may often give good results provided the land is fairly fertile.

The Red Texas oats are a standard variety for growing in this state and especially adapted for the southern part of the state. Other varieties of oats which succeed well in the West as shown by the tests at the Fort Hays Experiment Station are the Burt, Sixty Day and Kherson. These are somewhat earlier maturing varieties than the Red Texas. We have seed of each of these varieties for sale, price \$1.50 per bushel for graded oats, except the Red Texas which we are selling at \$1.50 per bushel. This is a special strain of the Red Texas which has been grown here for several years and somewhat improved in type and yielding qualities. The oats are not fully pure, containing a trace of black oats which seem to be characteristic of the Red Texas oats. Shall be pleased to supply you with a limited amount of seed of any of these varieties mentioned, not to exceed 20 bushels. A. M. TENEYCK.

Best feed for your baby chicks

It is no trouble to hatch chickens, but it takes the proper feed to raise them: use **Otto Weiss Chick Feed** a complete balanced Ration; it develops bone, flesh and feathers, saves your Chicks, and they make a rapid growth. Send for circular and prices on Poultry Supplies. **Otto Weiss Alfalfa Stock Food Co.** Wichita, Kansas

WHITE PLYMOUTH ROCKS

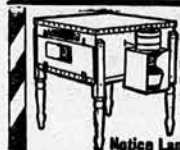
(EXCLUSIVELY)

For 18 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 per 15 or \$5.00 per 45 and I prepay expressage to any point in the United States.

THOMAS OWEN,

Topeka,

Kansas.



IF NOT, WHY NOT?

Let me help you in the Poultry Business. Get a Poultry Leader Incubator and Brooder, then you will be sure to hatch and raise chickens. Metal Encased—Safe and Sure—Prices are Lower—85 Per Cent Better Hatches. It's time for you to hurry. Free book ready. Send your name quick. Freight Paid.

EMIL OCHSNER, Sutton, Neb.



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Fresh and Sure to Grow Tested for Vitality

My fine, new seed catalog for 1910 is waiting for you. Do not fail to write for it. If you have planted my seeds in past years you know you always got your money's worth in Zimmerman's Fresh Tested Seeds. This year's book is not only better than ever, but it is the best and most reliable seed book that will go into the hands of seed buyers this year. Remember we are seed headquarters for the South and West. Buy your seeds from me and make sure of getting the kinds suited to your own soil and climate. It pays to plant Zimmerman's seeds.

Send For Free Catalogue

Everything in Vegetable, Field and Flower Seeds, Roses, Plants, Shrubs and Vines. Accurate descriptions and fine, large illustrations, over 300 of them. Best line of Bee and Poultry Supplies. If you have other catalogs, send for mine too—do it now before you forget it.

ZIMMERMAN SEED COMPANY, 623 Quincy St. Topeka, Kansas

RATEKIN'S 100 BU. OATS

Ratekin's Big Banner 100 Bushel White Oats—The biggest, prettiest, plumpest oat in existence. Side by side with common sorts they yield 100 bushels per acre where other sorts make but 25 to 35 bushels. Strong stiff straw; sprangled heads; ripens early; never rusts, blights or lodges. There is none like them, and when our stock is exhausted there is no more to be had. Samples Mailed Free. Also our Big Illustrated Catalog of farm, field, grass and garden seeds. A postal card will bring them to your door. Address, RATEKIN'S SEED HOUSE, Shenandoah, Iowa.

J.G. PEPPARD SEEDS

MILLET, CANE, KAFFIR, POPCORN, SEED CORN, ALFALFA, TIMOTHY, CLOVER. AND ALL KINDS OF FIELD AND GRASS SEEDS

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Speciosa Catalpa, Black Locust, Grapes, Vines and Plants

For spring delivery apple, pear, cherry, plum, peach, apricot and quince trees. Gooseberry, currant, blackberry, raspberry and strawberry plants. Rhubarb, asparagus, catalpa speciosa, black locust, maple, mulberry and hedge plants. Evergreens and roses. If in need of any of above stock write us. I have official Kansas and Oklahoma certificates of inspection.

GREENWOOD COUNTY NURSERY,

J. W. Henshaw, Eureka, Kansas.

ALFALFA SEED BROMIS INERMIS GARDEN SEED POTATOES

Geo. T. Fielding & Sons, Manhattan, Kan.

POTATOES of all kinds all kinds of GARDEN SEEDS

Write for Our Seed Catalog. Lowest prices, best grade. We buy Millet, Cane and Kafir Corn, Sweet Corn, etc. Special Prices on Onion Sets. HAYES PRODUCE CO., 524-526 N. Kansas Ave. Topeka, Kansas.

SEED CORN.

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

IF YOU WANT TO BUY

the best western grown nursery stock write us at once. Apple, pear, cherry, plum, peach, shrubs and roses our specialties. Freight paid to your station. THE GRISEA NURSERIES, Lawrence, Kan.

TREES FROM CHANUTE

BEAR FRUIT

YOU BET!

That's why they all want them. Write today for our great \$10.00 combination offer.

CHANUTE NURSERIES,

James Trullit & Sons, Chantute, Kansas.

TREES of all kinds AT WHOLESALE PRICES. Save agents commission of 40 per cent by ordering direct from us. Premium with each order free of from 1 to 4 trees; roses, shrubs or other stock. Stock Guaranteed first class. Certificate of inspection furnished. Don't delay send for price list now. Address Box H, WICHITA NURSERY, Wichita, Kan. (Gen'l Agts. for Wellington Nurseries.)

SEED CORN.

Hildreth Yellow Dent. Twice in succession winner at International (Barred from trying this year.) Seed all gathered before freeze. Take no risk. Write us. Seed costs you 15c to 25c per acre from The Deming Ranch, Oswego, Kan.

Pure bred Shorthorns and Poland Chinas.

STRAWBERRY PLANTS

that pay to plant are the kind we grow. We have a good supply of all the leading varieties, old and new. Plenty of moisture late in the season has given us the best possible quality of plants.

We also grow Raspberry, Blackberry, Dewberry and all other small fruit plants. 500,000 Asparagus, 50,000 Catalpa Speciosa, 25,000 Rhubarb, etc. Our common sense catalog will interest you; write for a copy. Address F. W. Dixon, Holton, Kan.

CATALPA SPECIOSA GUARANTEED.

To be pure seed gathered under our direction. Examined by the U. S. Agricultural Department and found to be pure. Copy of their letter and catalpa facts in illustrated booklet mailed free. Write for same. The Winfield Nursery Co., Winfield, Kan.

POULTRY PROFITS DOUBLED

If you want \$2 profit where you now get \$1, either from eggs or poultry for market, simply send us your name and address and let us tell you the real poultry secret that has doubled the profits of poultry raisers. It's the only real way to poultry success. Make every fowl a profit earner. Write at once for this information whether you have 3 fowls or 300. It's free to you. Blanks & Hawk Supply Co., 145 Blanks Bldg., St. Louis, Mo.

The GRANGE

OFFICERS OF STATE GRANGE.

Master, Geo. Black, Olathe.
Lecturer, A. P. Reardon, McLouth.
Treasurer, Henry Rhodes, Gardner.
Secretary, A. L. Hunt, Olathe.
Executive Committee: E. W. Westgate, Manhattan; O. F. Whitney, Topeka; Geo. Black, Olathe; A. L. Hunt, Olathe; W. T. Dickinson, Carbondale.

Start in on the new year with a realization that not all your efforts as lecturer will be appreciated and that undoubtedly you will sometimes be unjustly criticised. But keep at it, hold your temper, smile on, work on, plan on—you are bound to win.

During the month of December seventeen state Granges held their annual sessions. In each state there was a better attendance, more interest manifest, and better work accomplished than heretofore.

Get the members talking some evening on practical ways of helping young people to get an education. It's a mighty timely thought, and not telling what beneficial results may grow out of such discussion.

"A Good Poultry House" is a topic that will always draw out lively discussion in a Grange located in a poultry-raising section. It will at once call forth a wide difference in opinions and that very difference is what gives life and value to a discussion.—Grange.

The Grange stands for advanced thought and improved methods and is a molder of public thought. Thirty years ago it declared in its declaration of purpose, in favor of teaching the science of agriculture in the public schools.

The state investigation of the price of milk in New York city shows that one well known company, controlling 28 per cent of the milk trade in the city, credits 75 per cent of its twenty million dollars of capital to "trade-marks an good-will." On this capitalization six per cent was paid on the preferred stock and 10 per cent, on the common. Another company, capitalized at half a million, which figured "good-will" at \$300,000 paid 15 per cent dividends last year, 22 per cent this year. Still another company paid 26 per cent. These companies sold milk at eight cents a quart and desire to increase the price, claiming they cannot make a fair profit at that figure.—The Grange.

A Timely Question for the Grange.

One topic that might well be discussed some evening would be this: "How far have we the right to make civic improvements and bind future generations to pay for same?" This will prove very timely in almost any locality, because the question of water, lights, walks, sewers, and school-houses is always being considered, and the most common method of payment is to "bond the town." The chances are some of the quiet but thoughtful members will be drawn into a discussion of this sort who would not ordinarily say a word. Any topic that affects the pocketbook is pretty apt to awaken interest. Moreover it will focus attention upon the coming generation, a form of discussion that is apt to be very profitable.

Suggesting Topics for Grange Consideration.

1. Clean milk and its relation to social hygiene.
2. How many Grange officers actually live up to their installation obligation?
3. The George Junior Republic and its significance to American boyhood.
4. The home flower garden and its influence upon all members of the household.
5. Locating and stopping the leaks on an every-day American farm.
6. Do the members of the ordinary family take enough time to even get acquainted with each other?
7. How much shall the farmer who lives on the outside be taxed for village improvement?
8. Ensilage vs. field corn—which is the more valuable from the dairy standpoint?
9. Electricity on the farm—ways in which it is likely to be adapted to practical uses in the near future.
10. The garden as a means of starting a savings bank account.

Postal Savings Bank.

Under the pressure of public sentiment, due largely to the petitions sent to congress from all the local Granges of the country, the senate committee on postoffices, reported favorably at the last regular session of congress the bill providing for postal savings banks. This measure was opposed by some of the leaders in the senate, who were able to prevent a vote being taken on it, but it is believed that if it had been brought to a vote a majority of the senators would have favored its enactment. President Taft has recently taken occasion to publicly advocate this measure, and in view of his favorable attitude it is expected that the postmaster-general will recommend its enactment in his forthcoming annual report. The opposition to this legislation is wholly confined to the banking interests, which are striving to defeat this highly desirable reform. As their hostility is based entirely on short-sighted selfishness it is hardly possible that they will be able to much longer delay favorable action by congress.

Building up Grange Interest.

There is but one safe and sane method of building up Grange interest and attendance, and that is by the strength and worth of the nightly programs, keeping it up steadily until the object desired has been attained. Everything possible that is attractive, and some things that may even be novel, can be introduced into the program and the occasional supper is both right and proper; but prizes and equivalent rewards for coming are not necessary or warranted. In the Lecture Hour program itself should the members find their adequate reward for Grange attendance. Some may complain that they have tried this plan and that it won't go—something more unusual and more sensational must be resorted to. It is not true, and the broadest experience shows that the slower but surer plan is the wiser. It will take longer to get attendance, but will be of the permanent sort. If it is known that every meeting is going to be so attractive and so valuable that a distinct loss will be suffered by every member who stays away, it is only a question of time and patience when the people will come and continue to come—without prizes or continual feeding.

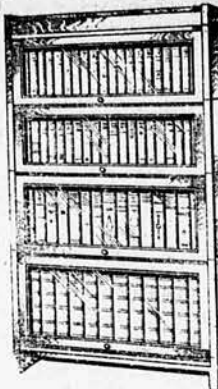
Society's Burden.

Dean Davenport, of the Illinois College of Agriculture, at Urbana, in an address, gave some good Grange doctrine in regard to state appropriations, wherein he said:

"The restraint of the criminal is a burden that society has taken upon itself. It is far more costly than the old-time primitive method of destruction. It is also more civilized, but it is none the less non-productive. The care of the insane or defective, and of other dependent classes is a most worthy charge upon the state. We certainly are more human in this respect than were our predecessors, who left them to wander as helpless unfortunates, a menace to society until death relieved their sufferings. But, worthy and necessary as is their care, it produces nothing and the money that goes into the care of the insane and the training of defectives is at best only protective. It adds nothing to the constructive policies of the commonwealth, and nothing whatever to the producing power of the state.

The only expenditures that will make us stronger and better as a people are those that go into the development of the industries of the state and the higher education of the best people. These expenditures are those that have gone and are going into agriculture, into the various commissions whose business it is to report upon advanced policies, and into the support of the university and the normal schools.

Nobody more than the farmer is warranted in getting into the state revenue matter. He pays more than his share of any direct property tax. Every acre, every calf and every pig is visible to the assessor. It is not always so. One can hardly resist the temptation to have fun with assessments. For example, they have no melodeons or organs in Cook county.



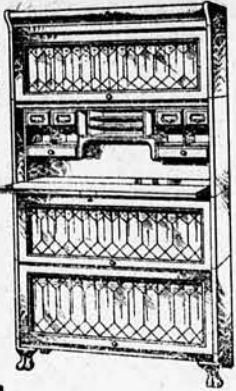
GUNN Sectional Bookcases

have many features that will interest you. Handsome and solid in appearance with no disfiguring iron bands to hold the sections together; glass doors (roller bearing, non-binding) easily removable for cleaning without taking down the entire stack.

The prices are lower than others.

Our free catalogue K F proves this and will please you. It quotes our attractive low prices, shows latest Sanitary Clawfoot, Mission and Standard styles—all high-grade Grand Rapids quality in finish and workmanship. Sold by dealers or direct.

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39 Victoria St., Grand Rapids, Mich.

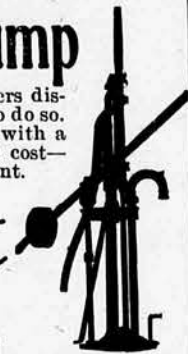


Throw Away Your Old Pump

When modern machines for harvesting were invented, farmers discarded their old implements and bought the new—it paid them to do so. It is as foolish to cling to antiquated wells and pumps as to thresh with a flail. It saves health, time, labor and money—saves insurance cost—saves worries and troubles to invest in a modern pump equipment.

DOUBLE ACTING

Red Jacket FORCE PUMPS



are marvels of modern ingenuity—they enable you to secure a waterworks system of your own—to put out fires—water your garden and lawn—wash your buggies. They give you the advantages of the bath, running water in the house and stables—all the comforts and conveniences of plentiful pure water possessed by the city dwellers.

Write for our booklet—let us tell you about the "So-Easy-to-Fix" features—the exclusive Red Jacket cylinder—the extension pipe construction that does away with useless friction and consequent labor—the automatic windmill regulator. You will then see why any farmer using an ordinary pump can well afford to throw it away and buy a Red Jacket.

Red Jacket pumps are sold by leading pump dealers. Write today, giving name and address of your dealer, and we will mail you interesting booklet, "Your Water Supply."

Red Jacket Mfg. Company, Davenport, Iowa

Largest exclusive manufacturer of pumps in the world.

We will give \$100.00 for the 9 best ears of seed corn

sent us before Dec. 1st, 1910 by users of

THE APPLETON MANURE SPREADER



bought in 1910. Write today for full particulars, and ask for our FREE SPREADER BOOK, which proves that the Appleton Manure Spreader is as strong as steel and oak can make it; so simple that any boy who can drive a team can run it, as well as any man; and so effective in operation that it never bunches the manure, but pulverizes thoroughly and distributes evenly from the beginning to the end of the load.

APPLETON MFG. CO.
19 Fargo St. Batavia, Ill., U. S. A.

HARNESS FROM MAKER AT WHOLESALE PRICES

If you pay more for Harness than our price you will pay too much and get no better Harness. You cannot afford to do it. We sell Harness and Saddles direct to the user at wholesale prices, saving him all the middleman's profits. Besides that



WE PAY THE FREIGHT

We put the finest quality leather and workmanship in our goods and guarantee satisfaction. Hundreds of customers buy all their Harness of us, and have for years; every sale satisfies and makes a friend for our shop—that means that our Harness and prices are right. Send for our big free Catalog, and see how we save you money—but don't buy until you get the catalog or you'll be sorry. Write for it Today. 500 Illinois Avenue H. & M. Harness Shop, SO. ST. JOSEPH, MO.



WHEN BUYING A CORN SHELLER

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

The NEW HERO

2-hole and 4-hole Custom and 2-hole Farmers' Positive Force-Feed Shellers They have Chilled Working Parts and other points of strength and convenience. We make Horse Powers, Wood Saws, Huskers, Farm Trucks, Manure Spreaders, etc. We guarantee our Goodhue Wind Mills for five years.

APPLETON MFG. CO.,

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Write to-day for Free Catalogue.

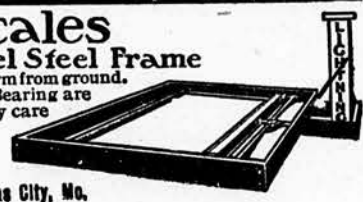
Lightning Pitless Scales

New Pattern. Solid Channel Steel Frame

Channels are seven inches which is the height of platform from ground. Levers are octagon in shape giving greater strength. Bearing are Toolsteel. This Scale will last a life time with ordinary care. Equipped with compound Beam Free. Furnished absolutely complete except platform planks. Guaranteed accurate and tested to more than its capacity. Write for our prices and description before buying.

KANSAS CITY HAY PRESS CO.,

129 Mill St., Kansas City, Mo.



They have pianos, but they are a cheap lot, worth only \$13.67 for taxable purposes. Their sewing machines are worth only \$2.23. They have only 20,308 clocks and watches to tell the time of day. Think of that for such a population. How inconvenient to depend upon the noon mark in such a smoky city as Chicago. Then the timepieces are not good, being worth only \$2.70 apiece.

Save the Chillicothe Reservation for a National Experiment Station.

At a recent meeting of the Hackney grange in Cowley Co. Kan, the ultimate use to which the Chillicothe Indian School reservation shall be put came up for discussion. As this reservation lies just across the line in Oklahoma the members of this grange are familiar with the conditions. It is generally understood that this school is to be abandoned by the government in the near future and the opinion of the Hackney grange as to its future use is expressed in the following resolutions:

Therefore Resolved, by Hackney Grange of the Order of Patrons of Husbandry that the Chillicothe Reservation should become a Government Experiment Station for the Western states under the supervision of the United States Agricultural Department and as large amounts are now being expended by the United States Agricultural Department under less favorable conditions than these conditions would offer to the Western states in the way of improving cereals, plants and horticultural products. That in so far as the sales of the products of this station could be made, it might be made self sustaining.

Resolved, That when the present buildings are not needed or are not to be used for present school purposes, that these buildings should be converted into a United States Agricultural university supplementary to all agricultural colleges and to be so managed as to give post-graduate courses to students, thereby furnishing a higher education in the scientific researches of agriculture and for any other purpose that the agricultural department may consider necessary to advance and improve the sciences of agriculture and horticulture.

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Spring Steel Farm Fence
Turns every animal on the farm. Made of high carbon spring steel. Always tight—the wires cannot slip. Catalogue shows many styles. Free—write for it to-day. Agents: liberal proposition. Full particulars on request.
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BROWN FENCE
For Rabbits, Chickens, Hogs, Sheep, Horses, Cattle. 160 styles. Big heavy No. 9 galvanized Coiled Spring rust proof wires. Will defy stock, wind and weather. Free sample & cat'g. 15 to 35c per rod. We pay freight.
The Brown Fence & Wire Co.,
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14 1/2 Cents a Rod
For 22-in. Hog Fence; 15 3/4-in. for 24-in.; 13 1/2-in. for 31-in.; 12 1/2-in. for 34-in.; 11 1/2-in. for 41-in. Farm Fence. 50-inch Poultry Fence 33-in. Sold on 30 days trial. 80 rod spool Ideal Barb Wire \$1.55 Catalogue free.
KITSELMAN BROS.,
Box 61 MUNCIE, IND.

48IN. FENCE 27c
a rod
Best high carbon coiled steel wire. Easy to stretch over hills and hollows. FREE Catalogue—fences, tools. Buy from factory at wholesale prices. Write today to Box 62 W. H. MASON, LEESBURG, O.

LAWN FENCE
Many Styles. Sold on trial at wholesale prices. Save 20 to 30 per cent. Illustrated Catalogue free. Write today.
KITSELMAN BROS.,
Box 399 Muncie, Indiana.

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Built on tight. Sold to the user at Wholesale Price. We Pay Freight. Catalogue free.
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When planning to use concrete remember that no matter how careful your construction may be, it is certain to be unsatisfactory unless the cement you use is of the right quality. To expect to make hard and durable concrete from poor cement is like trying to make a good pair of shoes from scrap leather.

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The largest buyer of ATLAS Portland Cement is the United States Government, which recently purchased 4,500,000 barrels for use on the Panama Canal. There is only one grade of ATLAS Portland Cement manufactured—the best that can be made—the same for everyone.

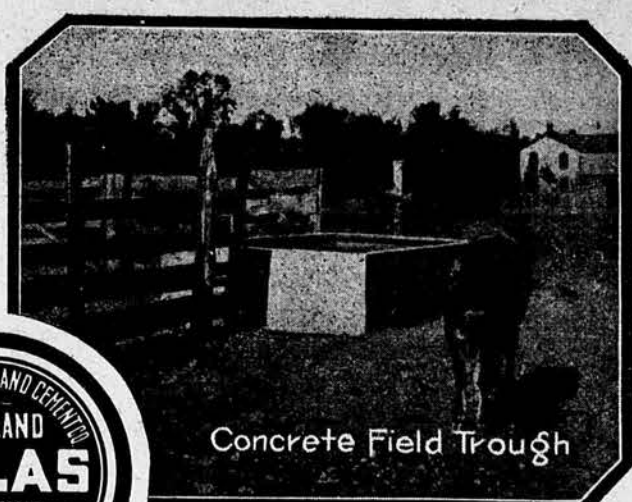
ATLAS Portland Cement is made of genuine Portland Cement Rock. It contains no furnace slag.

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If he cannot supply you, write to

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Productive capacity over 50,000 barrels per day—the largest in the world



Concrete Field Trough

Wooden field troughs are often dangerous. When old they shed splinters and harbor decayed vegetable matter. Iron troughs eventually rust and decay. A concrete watering trough will last as long as your land.

Stump Eradication.

Editor KANSAS FARMER:

Please inform me what kind of acid it takes to burn out stumps.—C. H. L., Kickapoo, Kan.

We presume our correspondent refers to a so-called chemical stump eradicant that has been widely advertised over the country. If so, he has in mind an article that is entirely fraudulent and of no value whatever. There are several mineral acids that will destroy wood fiber, but their action is slow and their cost is so high that one could not afford to use them on a single stump. The best way to do is to use a stump puller.

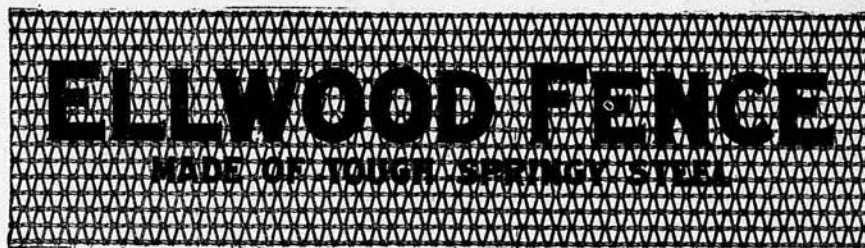
Be ready for Spring Work.

Right now is a good time to see that all the machinery and tools needed for the spring and summer work are placed in good order. Calibrate your corn planter so that you are sure it will drop the number of kernels per hill that you desire. This can easily be done with a file. You can spare the time to fix up plows, haying tools, etc., better at this time of the year than you can the day before you intend to use them. Little defects now will cause you many trips to town in the busy season and a loss of much time. Be ready for spring and summer work when it comes.

To Kill Weevils and Other Insects in Seed Grain.

"The proper thing to do, at this time of the year, is to fumigate all beans and peas, in order to kill the weevils that are in them, and prevent these pests which live through the winter from continuing their gnawing within the seeds and increasing their race for another season's depredations. The easiest method of doing this is to put the seeds into a vessel like a wash boiler, that can be closed, and put into this vessel a shallow pie tin, and pour into the pie tin a teacupful of carbon bisulfide. Then close the vessel tightly, and let it remain undisturbed for a day, by which time the pests will have been destroyed. Keep it in a barn or shed, or some other building than the family residence. The fumes are explosive like those of benzine or gasoline, and fire should consequently be kept away," advises Prof. Surface of the Pennsylvania Station.

"Pests in granaries and bins can be killed by this method of fumigation, two pounds of carbon bisulfide being used for each hundred bushels of grain or space in the bin. The important point is to shut out all air. If this can not be done the fumigation will do but little good, unless the grain can be covered with wet blankets to keep down the fumes and exclude the air."



Weight in Fence is Strength

Do You Sell Your Stock By Guess?
No—You Weigh Them

USE the same good judgment in buying fence. Weigh it and see what you are getting for your money. In Ellwood Fence you will find good value by this test.

The close 2-in. and 4-in. truss-brace mesh of the Ellwood Fence distributes strain over a wider area than do fences of more open construction, making a long-life fence. Also the hinged-joint construction at every second cable effectively protects the cross or mesh wires by throwing the shock upon the heavy cable wires.

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are a profitable investment for property owners. Every dollar spent in fixing up your place in this way will add \$10.00 to its value.
CYCLONE FENCES are made so they never sag or bulge out of shape. They will outlast other fences for the wires are heavy and rust-resisting. Cyclone Fabric can be erected on uneven ground. Cyclone Fences are made in many different styles of many attractive patterns, using either steel or wood posts. It will pay you to look into this matter of fences and in order that you may know about Cyclone Fences we send our Style Book free.
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Prove for yourself in your own home, that the Kalamazoo is the most perfect—most economical—most satisfactory range for you to use—Your money back if it's not.
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HOME CIRCLE



First Aid to the Injured.

Sun-stroke—The local effect of the sun's rays striking the unprotected portions of the body is to cause redness and burning, and often blisters known as sun-burn. The exposed parts do not even have to be in the direct sunlight because sun-burn can be caused by active rays of the sun being reflected from some smooth, bright surface as from water. Hot winds may also cause a condition similar to sun-burn.

The preventive measures against sun-burn are of course to protect the surface of the body from the sun's rays either direct or reflected. Don't try to get tanned all during the first day in the field, at camp, or at the sea-shore.

The actual sun-burn itself is treated as any other mild burn by applying cloths wet in a saturated solution of sodium bicarbonate (baking soda), or some oil or ointment.

The systemic effect of the sun's heat or of any artificial heat as in furnace or boiler rooms, is divided into two classes called heat exhaustion and heat-stroke or sun-stroke. These two conditions although resulting from the same cause are quite different and must be treated in different ways.

Heat Exhaustion—The more common result and also the less serious is sometimes erroneously called sun-stroke. It is seen more frequently in persons working in the direct rays of the sun, as farm laborers, or soldiers on a march, but may also occur from working in hot and closely confined places.

The symptoms are dizziness, dazed mind, not usually unconsciousness, the skin pale with a cold clammy sweat, respirations are shallow and hurried, pulse is rapid and weak, and the body temperature is usually below normal. The patient may be nauseated and sometimes vomiting occurs.

The treatment of heat exhaustion is very similar to that of shock from severe burns. Keep the body warm by wrapping in warmed blankets or covers of some kind, and surround it with hot water bottles. Stimulants as aromatic spirits of ammonia, brandy, or strong black coffee may also be given.

Heat-stroke sometimes occurs while working in the open and being exposed to the direct rays of the sun, but it is probably more often seen where the person works in some enclosed place where the heat is excessive as boiler rooms, and stoke-holds of steamships.

The symptoms begin as dizziness, nausea, headache, then unconsciousness. At this stage the face is flushed, skin dry and hot, and the body temperature greatly increased, sometimes up to 108 degrees or over, (normal 98.6 degrees). The respirations are rapid and noisy and the pulse is rapid but full and bounding.

Unless these symptoms are very soon relieved the patient goes into a state of collapse and generally dies within a few hours. The symptoms of the stage of collapse are similar to those of heat exhaustion but of a more aggravated form.

To prevent this stage of collapse and a fatal termination, the patient should be put in a bath of ice water, or the body should be rubbed with ice. An ice-cap which can be made by placing pounded ice in a bag should be placed on the head. All this is to lower the temperature of the body and should be kept up until it reaches about normal (98.6 degrees). If collapse has taken place it must be treated the same as shock by keeping the body warm and giving stimulants.

Both conditions, heat-stroke and heat-exhaustion, are liable to occur in poorly nourished and intemperate persons and in those doing hard physical labor. One attack is inclined to make persons more susceptible to the effects of heat so that they should always take special care about exposing themselves afterwards, and should change their occupation if possible.—Wm. H. Bailey, A. B. M. D., Kansas City, Mo., Rosedale.

Chocolate Layer Cake.

Three ounces unsweetened chocolate, 3 tablespoons granulated sugar, 1-3 cup each milk and water. Boil chocolate, water and sugar together till thickened, add milk and set aside while preparing the following: One-quarter cup butter, 1 1-2 cups powdered sugar, 1 egg, 2 cups flour, 1-2 cup milk, 2 teaspoons cream of tartar, 1 teaspoon soda. Sift soda, cream of tartar and flour together; cream, butter and sugar, beating well; add the egg, whipped light, then the milk and flour alternately. Mix the two portions and bake in three layers. This cake is extremely delicate

in texture and can be best handled if baked in the layer cake pans which are made in two separate parts, a rim and disk which rests in it. The layers can be removed from the disks to a cooler in perfect condition, a difficult feat with the other tins.

Filling—Melt in a double boiler 5 tablespoons of grated chocolate and add 5 level tablespoons granulated sugar. Blend a level teaspoon flour in a quarter cup of milk, add to chocolate and cook till mixture begins to thicken, then pour onto one beaten yolk, and whip till smooth and cool. When both filling and cake are entirely cold put together on the plate on which it is to be served. The plate should be large enough to allow the cake to stand level. Cover top with a boiled frosting containing 3 drops of almond extract. A vanilla-flavored, boiled frosting may be used for filling, if preferred. It makes a loaf a little less soft. A delectable dessert results if two generous layers of cold coffee jelly, not too stiff, are used to put the cake together. Top with sweetened and flavored whipped cream, put on with large-sized pastry tube.—Ex.

FASHIONS

8552—A Modish Blouse Waist.

This stylish waist of blue and white foulard shows the close fitting sleeve which is the latest whim of fashion. It would be an extremely pretty model for the light colored linens trimmed with bands of white



8625

8519—A Neat Work Apron.

No woman can have too many of these useful work aprons that cover the whole



8552

dress. The one pictured is developed in figured percale and though very practical, is at the same time pretty and attractive. The front is in princess effect and the wide



8517.

and white braid buttons. The pattern is cut in 6 sizes, 2 to 42 inches bust measure. Size 36 requires 4 yards of 24 inch material.



8576

bretelles over the shoulders are always becoming. The pattern is cut in 7 sizes—small, medium and large. Medium size requires 7 1/2 yards of 36 inch material.

8517—Boy's Russian Suit.

This simple yet stylish little suit for the



8612

small boy is suitable for development in galeata linen serge and broadcloth. The blouse is made with a neck band or plain white linen. The little knickerbockers are held in place at the knees by an elastic run in a casing. The pattern is cut in 3 sizes, 2, 4, 6 years. 4 year size requires 2 1/2 yards of 44 inch material.

8612—Misses College Dress.

This illustrates an up-to-date and popular model, fashioned on "Moyen Age" lines. The waist is fitted by side front, side back and underarm seams, and is joined to a plaited skirt portion. The dress may be cut in high neck style or with a sailor collar. The pattern is cut in sizes, 14-16-18 years, and requires 5 1/2 yards of 36 inch material for the 16 year size.

8625—A Smart Up-to-Date Model.

This becoming model shows the Moyen Age features, having a princess body with low hip line, and a deep flounce. Either sleeve will develop effectively. Olive green cashmere, with shirrings of satin in a con-



8519

trasting shade, with white tulle for the yoke inset, form a charming combination for this model. The pattern is cut in 6 sizes, 32, 34, 36, 38, 40, 42 inches bust measure. It requires 7 1/2 yards of 27 inch material for the 6-inch size.

EACH PATTERN 10 CENTS.

The Kansas Farmer, Topeka, Kan.

Please find enclosed cents, for which send patterns as follows:

Size Number

Name

P. O. R. D. State

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HELP WANTED.

WANTED—POSITION AS TRACTION engineer. Competent and reliable. Address J. W. Armstrong, Charlotte, N. C., R. F. D. No. 97.

WANTED—ECONOMICAL AND PARTICULAR people to take advantage of our prices and service. Western Printing Co., Ptg., Dept. of Kansas Farmer, Topeka, Kan.

WANTED—WORK ON FARM; ABLE TO manage farm. Pawnee Co. preferred. Claude Myers, 923 East 13th St., Pittsburg, Kansas.

WANTED—LOCAL MEN TO TAKE ORDERS for high grade western grown nursery stock. Experience unnecessary. Outfit free. Cash weekly. National Nurseries, Lawrence, Kan.

GOVERNMENT FARMERS WANTED—Salary \$75 monthly. Free living quarters, fuel and light. Examination soon. Let us prepare you now. Write today. Osmont's College, Dept. 44F, St. Louis.

WANTED—A SOLICITOR WITH HORSE and buggy to drive through the country and solicit subscriptions. Address Circulation Manager, Kansas Farmer, Topeka, Kan.

WANTED—LADY OR GENTLEMAN AS local representative in every Kansas county. Splendid chance to make good wages without great effort and no expense. Write for particulars. Address Circulation Department, Kansas Farmer, Topeka, Kan.

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

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WE CAN TRADE YOUR PROPERTY—Book of 500 exchanges free. Graham Brothers, Eldorado, Kan.

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LAND IN SHERMAN COUNTY KANSAS—The best bargain in Kansas land can be had in Sherman county. If interested, write Wade Warner, Real Estate Dealer, Goodland, Kan.

A LARGE LIST OF DESIRABLE farms for sale on very liberal terms and prices. For further information call on or address Thomas Darcey, Real Estate Agent, Ofertle, Kan.

FINE FARM FOR RENT—240 ACRES near Hope, Dickinson Co., Kan. 131 acres for spring crop, balance in pasture and mow land. Enquire of T. J. Getz, Hope, Kansas.

MUST BE TAKEN QUICK—A FINE 160 acre farm adjoining small town to exchange for \$5000 or \$6000 stock of hardware or Gen. Mdse. Owners write me. C. A. Woods, Devon, Kan.

BUY A HOME IN EASTERN OKLAHOMA, 50 farms for sale, three illustrated booklets brimful of information free for the asking. Write Oklahoma Land & Loan Co., Wagoner, Okla.

FOR EXCHANGE—200 ACRES, IMPROVED, near Oskaloosa, Kan., rolling, good soil, \$12,000. Mortgage, \$6,000. Want cash or rental for equity. Possession March 1st. Garrison & Studebaker McPherson, Kan.

MORRIS COUNTY FARMS FOR SALE—120 acres, \$6,000; 120 acres, \$7,200; 160 acres, \$8,000; 160 acres, \$8,000; 160 acres, \$8,000; 240 acres, \$9,600; 320 acres, \$22,400. 1/4 interest in hardware stock. E. A. Boyd & Co., Dwight, Kan.

SELL YOUR PROPERTY FOR CASH IN less than 30 days; properties and business of all kinds sold quickly in all parts of the world; send description today; we can save you time and money. The Real Estate Salesman, K. Funke Bldg., Lincoln, Neb.

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WANTED—FARMS AND BUSINESSES. Don't pay commissions. We find you direct buyer. Write, describing property, naming lowest price. We help buyers locate desirable properties FREE. American Investment Association, Minneapolis, Minnesota.

NO. 80—30 ACRES OF CREEK BOTTOM, balance upland, 60 acres in cultivation, 3 acres meadow, balance in pasture, a new 3 room house and small barn, good water, only six miles from the county seat and a bargain at \$3,600. J. S. Boyle, Bennington, Kan.

FOR SALE—A WELL IMPROVED ranch of 560 acres close to Fredonia. Good house, barn and orchard, 100 acres in cultivation, balance pasture and mow land but nearly all can be plowed. Gas well on place. Price for quick sale \$21 per acre. Skaggs & Co., Fredonia, Kan.

FARM FOR SALE—HALF SECTION IN Harper Co., Okla. Two hundred and forty acres in cultivation, on creek bottom, black sandy loam. An ideal cotton, wheat and corn farm; 10 miles of county seat, two miles of good town, walking distance of one of the best colleges in Oklahoma, fair improvements, rented for 1910 and 1911 at \$250 per year; price until March 1, \$6,500; half cash, balance 6 years 5 per cent. Address James J. Doyle, Junction City, Kan., Route 4.

NO. 96X 320 A. 2 1/4 MILES FROM GOOD town in Lane county. Good improvements, all nice level land, 200 a. in cult., 120 in wheat goes with place. This is one of the best bargains in Kansas. Price \$6,000. No. 135, 320 a. 3 1/4 mi. from Ransom, tel., R. F. D., 7 room house, good barn with mow, good cow barn for 40 head, cow sheds, granary, 2 wells and wind mills, all fenced, 200 a. cult., a fine place. Price \$9,000. Ask for our land list. McNinch & West, Ransom, Ness Co., Kan.

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The rate of advertising in this department is low, only three cents per word each insertion. There is no more popular advertising than classified advertising. Every one reads classified ads, and just because they are classified you can reach 50,000 farmers in Kansas and adjoining states, the best farmers on earth, through this page. All ads set in uniform style, no display. Initials and address count as words. Terms invariably cash in advance.

DENVER GARDEN HOMES, WITH AD- vantages of city life and an income assured. Four miles southeast of State Capitol, Post-office and Denver city market. Unlimited demand for fruit and garden truck, water, street car facilities. Write today for folder, map and plan to secure five acre tract at your own terms. Park Hill Heights Realty Co., 1759 Stout St., Denver, Colo.

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MAMMOTH BRONZE TURKEYS FOR sale. H. A. Sanborn, Detroit, Kan.

BUFF ROCK COCKERELS—PURE BRED \$1 and \$2. Mrs. John Bell, Ackerman, Kan.

GOOD BLACK LANGSHAN COCKERELS \$1.50 each. Mrs. Geo. W. King, Solomon, Kan.

50 WHITE ROCK COCKERELS AND A few good pullets for sale. J. C. Bostwick, Hoyt, Kan.

FOR SALE—100 B. ROCK COCKERELS and females. 20 years experience. Chris Bearman, Ottawa, Kan.

30 CHOICE WHITE PLYMOUTH ROCK cockerels at bargain prices, \$1.00 to \$1.50 each. L. T. Spellman, Paola, Kan.

PARTRIDGE WYANDOTTES—PRIZE winning cockerels and eggs. Farmers' prices. Write S. S. Jackson, Scranton, Kan.

S. C. B. ORPINGTON EGGS \$1.00 PER 15; \$3.00 per 50; \$5.00 per 100. Mrs. J. Drennan Liberty, Kan.

BLUE RIBBON WHITE WYANDOTTES, White Emden Geese and Ollie Puppies. B. B. Romig, Woodland, Mo.

BARRED PLYMOUTH ROCKS—A FEW good cockerels for sale at \$1.00 each. Mrs. Wm. Bumphrey, Corning, Kan.

BUFF PLYMOUTH ROCKS, INDIAN Runner ducks, eggs, stock. A. R. Olmstead, R. 1, Lawrence, Kan.

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BARRED ROCK & R. C. R. I. Red cockerels for sale. Strong, vigorous Free range. Write your wants. Mrs. W. A. Schrier, Argonia, Kan.

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COLUMBIAN WYANDOTTES—THE breed that led all other varieties at the recent Boston Show. Eggs from prize winning stock. Theo H. Scheffer, Manhattan, Kansas.

BUFF ROCKS FOR BUSINESS, PLEASURE, and profit. Have raised nothing else for nine years. Have the best stock of birds now that I ever had. Eggs, \$1 for 15; \$5 for 100. H. M. Stephens, Munden, Kan.

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WANTED—GOOD HATCHABLE EGGS in quantity; can use your entire output from pure bred stock (different varieties) from January to October. Why bother with small orders when we will take all as fast as the hens lay? For Sale: Baby chicks (different varieties) any quantity, guaranteed, full count and live delivery, guaranteed. Custom hatching and brooding. Eggs for hatching. Our egg contract circular and catalog for the asking. P. C. Fish Poultry Yard and Hatchery, 434 1/2 Bellevue, Both Phones, Kansas City, Mo.

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RHODE ISLAND RED COCKERELS, bred for health, vigor, utility and beauty. Prices right and satisfaction guaranteed. W. J. Casey, Knoxville, Iowa.

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OKLAHOMA FARM BARGAINS—AL- falfa lands that yield six (6) tons alfalfa hay and one (1) crop seed per acre yearly. Can be bought on reasonable terms. Address lock box 815, El Reno, Oklahoma.

RHODE ISLAND REDS—BOTH COMBS. All stock sold we can spare this season. Ten matings to furnish eggs for hatching. Guarantee on eggs. Mating list with show record free. H. A. Sibley, Lawrence, Kan.

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FOR SALE—ONE REGISTERED, IMPROVED, black Percheron stallion, two jacks and 1 jennets. F. L. McCoy, Eskridge, Kan.

REGISTERED MAMMOTH JACKS AS good as grow. H. T. Hineman, Dighton, Kan.

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FOR SALE—TWO VERY DESIRABLE registered Percheron mares. Both heavy in foal. Address, John H. Peak, Manhattan, Kan.

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WANTED—A BLACK, REGISTERED Percheron Stallion, weighing a ton, between 8 and 12 years old. Guaranteed a breeder, broke to harness. E. N. Sutes, Hope, Kan.

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MUST BE SOLD BEFORE FEB. 20, 1910; 25 Crimson Wonder and King of Cois. bred gilts. Prefer to sell in 5 or 10 lots. Most of them are extra good. Chester Thomas, Waterville, Kan.

CATTLE.

SEE US BEFORE PLACING YOUR stock catalog printing. Western Printing Co., Ptg. Dept. Kansas Farmer, Topeka, Kan.

FOR SALE—TWO SHORTHORN BULLS, one red September yearling, sire Bampton Knight, out of a Gallant Knight cow. One roan pure Scotch bull, fall yearling. Sire Lord Buff 2nd, out of Red Lady 5th, a pure Scotch cow. Harry H. Holmes, Great Bend, Kan.

FOR SALE—DOUBLE STANDARD POLLED Durham cattle, either sex. Enoch Lungen, Osage City, Kan.

ALYSDALE SHORTHORNS—HERD headed by the magnificent Scotch bull Archer Victor No. 292012 for sale now at bargain prices, the following (red) bulls; Chief Burnett No. 311843, dropped December 16, 1903; Santa Claus No. 311819, dropped December 25, 1903. Also some fine young females, all richly bred. Call or write Chas. W. Merriam, Columbian Bldg., Topeka, Kan.

FOR SALE—ENTIRE WORKING HERD Registered Jersey cows—10 Stoke Pogis Marigold 41095 (dam and sire's dam 25-lb. cows), bred to Financial Count 61316, per head, \$100. 8 daughters Financial Count (sire and dam imported, both prize winners, dam won 1st in class twice over Is-land, her 4 dams 22 to 26 qt. cows, and 2 to over 3 lbs. butter per day; "Count" is half brother to Financial Countess 155100, ex-champion Jersey butter cow, 935 lbs. butter from 13,248 lbs. milk in year). Per head \$125. 12 exceptionally good Jersey cows not registered at \$890. Also Financial Count (above) \$200. Printed descriptions sent. Sayds Polo Jersey Farm, Parsons, Kan.

SEEDS AND PLANTS.

SEED CORN—HILDRETH YELLOW Dent. C. E. Hildreth, originator, breeder and grower, Altamont, Kan.

ALFALFA SEED \$11 PER BU. F. O. B. Sharon, Kan. Barber Co. Recleaned, Will send sample 1909 crop. N. Housinger, Sharon, Kan.

SEED OATS FOR SALE—RED RUST Proof Oats recleaned and graded. Sample and price sent on request. Warren Watts, Clay Center, Kan.

WESTERN TREES FOR WESTERN planters. None better anywhere. Price list free. Bishop & Carnahan, Conway Springs, Kansas.

SEED CORN—BOONE CO. WHITE, grown from seed bred by Kansas State Agricultural College. Write for prices. J. M. McCray, K. S. A. C. '09, Manhattan, Kan.

SWEEPSTAKES CORN—THREE SWEEP- stakes and twenty-three firsts. From Co. Fair to Nat. Corn Exposition, first where-ever shown. Immense yield. J. M. Gilman & Sons, Leavenworth, Kan.

100 PALMETTO ASPARAGUS PLANTS DELIVERED postpaid \$1.00. Grown by successful asparagus growers who know the market demands and profits of the crop. Instructive circular with quantity prices, tell all. Write today. R. W. Weaver Co., R. 9, Wichita, Kan.

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PATENTS PRODUCED AND SOLD: BIG money in patents; book free. H. Sanders, 115 Dearborn St., Chicago, Ill.

SEND FOR FREE BOOKLETS—ALL about patents and their cost. Shepard & Campbell, 6900 McGill Bldg., Washington.

MISCELLANEOUS.

FOR SALE—CARLOAD HEDGE POSTS, Wm. Roe, Vinland, Kan.

PURE HONEY, TWO CANS 120 POUNDS \$8.50; single can, \$4.50. F. O. B., care W. F. Morley, Los Animas, Colo.

FINE CHEWING AND SMOKING tobacco. Send stamp for sample. J. F. Miller, Adams, Tennessee, R. 1.

20 CAR LOAD HEDGE POSTS FOR Sale. All sizes and all prices. Correspondence solicited. W. H. Bitts, Melvern, Kan.

ARTISTIC STENCIL DESIGNS AND BIG money, earned with the newest invention we offer. Send 10c for particulars. Stencil Art Co., Baltimore, Md.

LETTER HEADS AND ENVELOPES—Descriptive of your business. Best prices. Send for samples. Western Printing Co., Ptg. Dept. Kansas Farmer, Topeka, Kan.

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FOR SALE—HAVING SOLD MY FRUIT farm I now offer my Ideal Dust Sprayer, run by two and a half horse power gasoline engine. For price and full particulars address Wm. Booth, Winchester, Kan.

You can buy fence at wholesale prices—14 1-4 cents a rod up if you write Kistelman Bros., of Muncie, Ind., send for their free catalog. See their ad in this issue.

If you want to save money on your purchase of fence write Kistelman Bros., of Muncie, Ind., for their free catalog. They are selling fence direct to the farmer on 30 days' free trial for 14 1-4 cents a rod up. See their ad in this issue.

Hilton & Garrison, the well known real estate firm of Attica, Kan., are advertising a quarter section in this issue that is priced at \$2,000 less than its actual value. It will pay you to investigate this. Mention Kansas Farmer when you write them.

D. Hill, Dundee, Ill., has long been famous for his evergreens, in the growing of which he is a specialist. His business was founded in 1855, which fact makes him the oldest evergreen specialist in the United States. With each succeeding year he has improved both in methods and facilities and a personal trial of his trees by the writer convinces us that there could be nothing more satisfactory than the condition of his trees when received. For several years we have bought evergreens from Mr. Hill, and each time with satisfaction. Ask for his beautiful catalog and mention Kansas Farmer. The book is free to our readers.

Every moment you save on the farm is money saved. It's money in your pocket to do your plowing quicker, easier and better—to do it just at the right time. You should investigate the Reeves way of plowing. The Reeves Flexible Frame Steam Lift Gang Plow is just as useful on small farms as on a large ranch. It is made in sizes for every need and for use with any traction engine. Other farmers have increased their income by using the Reeves and you can do the same. Learn all about the new way of plowing. Write to Reeves & Co., 118 Fifth Ave., Columbus, Ind., and have them send you a copy of their beautifully illustrated catalog. It contains a whole lot of interesting information for farmers and the book will be sent you free.

The first authentic record of the use of reinforced concrete was at the World's Fair in Paris, 1889. At that time, a small row boat, built by Mr. Lambot, about fourteen feet long and constructed of cement mortar, one-half inch thick, reinforced by wire netting, was on exhibition. This boat is still in use at Mervat, France. Since that time the use of reinforced concrete has become so important in building operations that a national exposition of concrete and reinforced concrete products is held each year in the big Coliseum, Chicago. The next exhibition will be held Feb. 13-26, and it is expected that over one hundred thousand people will attend. The railroads have made reduced rates on account of the show.

When writing advertisers please mention Kansas Farmer.

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NEW HOME SEWING MACHINE

Cheapness in price is evidence of INFERIOR quality and poor service. The NEW HOME is built upon honor, in a manner to insure PERFECT SERVICE for a lifetime. Have you seen our latest achievements in COMBINATION WOODWORK?



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NO OTHER LIKE IT. NO OTHER AS GOOD.

Buy the machine manufactured for long service. Those who used the NEW HOME forty years ago are now doing so. All parts are interchangeable, can be renewed any time. Ball Bearings of quality.

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NEEDLES, Superior quality, our own make, for any machine. If there is no NEW HOME dealer near you write direct to

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Indiana and Ohio Live Stock Insurance Co., CRAWFORDSVILLE, INDIANA.

Insuring Horses, Mules and Cattle against loss by death from any cause.

The Time-Tried Live Stock Insurance Company that has been in business continuously for twenty-four years.

Established 1886. Cash Capital \$200,000. Assets over \$400,000. Paid \$170,000 losses in 1909. More than \$1,000,000 paid to satisfied policy holders since organization.

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INDIANA AND OHIO LIVE STOCK INS. CO., Crawfordsville, Ind.

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The Kansas Farmer has for nearly 50 years been the champion of every interest of the Southwestern farmer.

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A book of 31 chapters of intensely practical instruction on feeds and feeding of hogs for profit.

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No better poultry paper published than the Western Poultry Journal.

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Not a cheap, trashy magazine, but a clean, first class publication for the home.

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CIRCULATION DEPARTMENT OF KANSAS FARMER,
Topeka, Kansas.

10 CENTS A POUND FOR HOGS



Don't sell your hogs for 6 to 8 cents and buy poorly smoked meat from Meat Trust at 20 to 30 cents. Butcher your hogs, salt and smoke the meat yourself. Sell the hams and bacon not needed for your use and make 3 or 4 times what you do now, besides having better meat. The extra profit will pay for what you use. No smokehouse necessary.

USE WRIGHT'S CONDENSED SMOKE

Gives the rich aroma and delicate flavor of hickory smoke to the meat, therefore secures highest prices. Keeps the meat sound and sweet indefinitely, and free from insects. Applied with a brush; twice over is sufficient; cut, dry, absorbent; penetrates meat thoroughly. A 75-cent bottle smokes a barrel of meat. Guaranteed and sold under Pure Food Law, Serial No. 541. Beware of imitations; secure the original and genuine. Write for illustrated free book, "The New Way."

Wright's Smoke guaranteed and backed by our \$250,000 capital. Money back if you want it.

E. H. WRIGHT CO., Ltd., 613 Broadway, KANSAS CITY, MO.

FREE SAMPLE BOTTLE

Ask your druggist for free sample bottle. If he cannot supply you, send 10 cents and names of five who smoke meat. We will send you, prepaid, sample bottle sufficient to smoke 10 lbs. of meat.

FARM INQUIRIES



ANSWERED BY
Prof. A.M. Ten Eyck

the seeding from the manured ground as compared with the unmanured ground.

Seepage From Hillside.

I have in charge 80 acres of land which has been leased and put in corn until the soil needs a rest from corn. The land is fertile, sloping, moisture seeping out of hillside. What crop or crops should be put in? What time of the year should they be sown? How should the soil be prepared for the seed? How much seed should be planted per acre, etc.—Mrs. J. A. Zimmerman, Valley Falls, Kan.

If the area of land affected by the seepage from the hillside is considerable it would be advisable to drain this portion by laying a tile a little above the upper edge of the seepage area, thus catching the excess water before it seeps out at the surface of the ground.

I can only give you general information regarding the subject of crop rotation and maintaining soil fertility.

For information on this subject I am mailing you Circular No's. 2, 3 and 5, on the use of "Manures," "Fertilizers," and "The Rotation Of Crops." For general information on the subject of soil culture and seedbed preparation. I am mailing you Circular No. 9 on wheat culture, Circular No. 13 on "Dry Land Farming," Bulletin No. 155, on "Alfalfa Culture," and Bulletin No. 160 on "Cow-Peas," which is doubtless one of the crops which you should grow in rotation in order to improve the fertility of the soil.

Preparation for Alfalfa Seeding.

I have a 70-bushel Appleton manure spreader that will spread 15, 12, 9 or 6 loads to the acre. I am putting fresh horse manure on wheat—light loam soil, lying next to bluffs. It has been in wheat five years and has made 38 to 40 bushels of wheat per acre. As I want to put some of this ground in alfalfa I wish to put manure on as thick as possible and not injure the wheat crop. I expect to put on 200 loads of this fresh horse manure and when it thaws out I have 200 loads of yard manure. Can you tell me at what rate to put these manures on to get the best results from wheat?—Le Roy P. Purzen, Rossville, Kan.

I would not advise to apply more than 12 loads of the fresh manure or 9 loads of the well rotted manure per acre. A heavier application as you suggest may cause the wheat to lodge and a lighter application may give as great a benefit to the alfalfa as would be secured by heavier applications. Your plan of manuring the wheat in preparing for seeding alfalfa is a good one, especially on rather light soil which may need a little humus. In experiments carried on at this station by using one or two tons of manure as a surface dressing on upland wheat we increased the yield of wheat 25 per cent and secured double the yield of alfalfa for the first two years after

Listing Cow-Peas After Oats.

I would like to be informed through the columns of the Kansas Farmer, if you have ever tried listing in cow-peas after oats. I have a piece of ground which I am going to put in oats in the spring and thought I would put the same in corn the next year. In the meantime I want to increase the fertility of the soil. I thought I would list the ground and plant to cow-peas and cultivate them by constant harrowing and when the peas get large enough or before frost, take a cultivator and bury the whole crop. Have you ever tried anything of the kind? Would be pleased to receive any information along this line; also the amount of peas that I should list to the acre.—Jno. M. Guy, Longford, Kan.

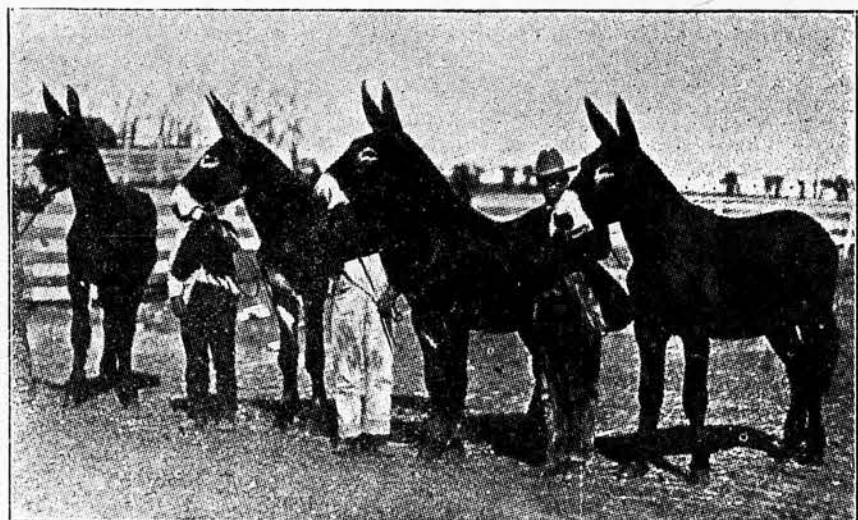
We have not practiced the method of listing cow-peas after oats but have practiced planting cow-peas with the grain drill after wheat also after oats, simply disking to prepare the seedbed or carefully plowing shallow as soon after harvest as possible. The method of listing is even more preferable than the method of disking and planting in drills so far as insuring a growth of cow-peas is concerned.

There is hardly time to grow a crop of cow-peas and produce mature seed by planting in oat stubble after harvest. The New Era, one of the earliest maturing varieties may mature seed in a favorable and long season but usually when cow-peas are grown after harvest the plan is to use the crop for forage or green manure. Since this is your purpose your method of planting in lister furrows and burying the peas with the cultivator in the fall may give similar results, to plowing a drill crop under. I admit however, that I have not had experience in practicing the method which you propose.

If the peas are listed in rows three to three and one-half feet apart it will require about 20 to 25 pounds of peas to plant an acre. Planted with the drill and drills six to eight inches apart usually require about one bushel of cow-peas per acre. Your method of planting in the rows will be the more economical method so far as seed is concerned and if you cultivate the crop as you propose doubtless the growth from the row would be practically equal to the growth from the drills with more seed planted. If you practice this method I shall be pleased to receive your report. For information on the subject of cow-peas I am mailing you copy of our bulletin No. 160.

Seed Wheat—Seed Corn.

During the past months we have been receiving reports from our agents, traveling men and dealers concerning the conditions of corn this fall. From these reports it appears



The 4 highest priced jacks ever sold in one sale. They brought \$57,335 in the 1909 sale of Limestone Valley Farm, owned by Louis M. Monsees & Sons, Smithton, Mo., whose 33d annual sale will be held on March 1 and 2, 1910.

Kansas Farmer Ads Bring Results

that unfavorable weather has greatly impaired the prospects for securing the right kind of seed corn for planting next spring.

We are informed that in many districts while the corn was still in the field, late and protracted wind and rainstorms were prevalent over the corn belt, injuring the ears more or less. Now it is believed that such unfavorable conditions would greatly lessen the germinating power of the kernel if used as seed corn; in fact, as many of the farmers pick their seed corn from the best ears on the stalks standing in the field, it looks as the many of them might either be entirely without seed corn or be obliged to use a very inferior kind. From all facts, gathered, if this should prove to be the case, care should be taken to keep from jeopardizing the prospects for a bumper crop in 1910.

These facts have been so reiterated to us and the evil effects of the late rain storms seem to be so widespread that we draw your attention to the matter with an idea that through your efforts this matter can be more definitely determined. We suggest that you bring it to the attention of the public generally in order that some steps may be taken to warn the farmers against planting corn with diminishing germinating power, and possibly put in their way opportunities for providing themselves with proper seed for next year.—International Harvester Company of America, Chicago, Ill., M. R. Owings, Adv. Mgr.

We are well aware of the fact that much of the corn remains in the field in Kansas and has been injured for seed purposes. A great deal of good corn has been saved by the breeders who are making a specialty of seed corn and a large amount of good corn will be offered for sale next spring. We find upon testing the corn which has been subject to the wet and cold that part of it still germinates vigorously. If farmers plant such corn, however, it will be necessary to test the germination of each ear especially since many of the ears are dead. This matter will be thoroughly discussed through our farm papers before spring and will doubtless be taken up by our College Extension and Farmers' Institute Department. I thank you for calling attention to this matter and assure you that we will do what we can to help the Kansas farmers to plant good seed corn next spring. You may be interested in learning something regarding the seed distribution work, etc., of this department. I am mailing you press bulletin No. 175 issued last spring; also press bulletin No. 3 on "Seed Wheat" and Circular No. 12 on "Seed Corn."

Wheat.

I have 61-2 acres of wheat showing a poor stand. Can I put oats in with the wheat using a disk press drill and use the thrashed oats and wheat mixed for hog feed, grinding same? That is, would this be a more profitable feed than listing the wheat up and planting corn? I will have a

drove of shoats to feed the grain to, and would like to know if the oats and wheat would not be a more profitable growth producer than the later crop of corn would be as a fat producer.—Clyde K. Rodkey, Blue Rapids, Kan.

You may sow oats, as you suggest, in the wheat and use the mixed grain for feeding hogs, provided the oats are a very early maturing variety. It would seem preferable to sow an early maturing strain of barley with the wheat rather than oats. Barley is a surer crop than oats and the mixture of barley and wheat should make a better hog feed than the mixture of oats and wheat. Probably by listing the ground into corn you may secure a larger yield of grain per acre than you may secure by the combination crop of barley and wheat.

The barley-wheat crop, however, will have the advantage of earliness, which should be considered next season on account of the very high price of grain. Also, the combination of barley and wheat or oats and wheat, when ground and fed will be a better feed for young growing hogs than corn.

For further information on the subject of the relative feeding value of the several feeds for hogs I have referred your letter to the Animal Husbandry Department of this college.

To Determine Nutritive Ratio.

Some interesting and valuable problems may be obtained from almost any phase of agricultural activity. It is too bad that the arithmetics of today are not made up of problems connected with the soil, animal feeding, food value of crops, etc. KANSAS FARMER has already given solutions for several problems which have tended to impress upon the reader the necessity of having the young people of the farm learn to figure for themselves.

An Eastern reader says he is feeding 100 pounds of gluten meal to 200 pounds of bran. He wants to know the nutritive ratio and how it is ascertained.

Nutritive ratio is the relation of protein to carbohydrates. In 100 pounds of gluten feed there is about 20 pounds of digestible protein, 50 pounds digestible carbohydrates and 2.7 pounds digestible fat. The carbohydrates and fat are added together and since one pound of fat is equivalent to 2 1-4 pounds of carbohydrates, the fat is multiplied by 2 1-4 and then added to the carbohydrates.

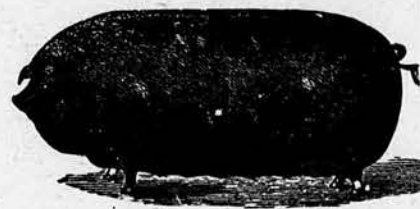
For example 2.7x2 1-4 equals 6 plus 50 pounds of carbohydrates equals 56 pounds. Now divide this by the amount of protein or 20 pounds and we have 2.8. Therefore, the nutritive ratio in this case is 1 to 2.8. In other words, for every pound of protein in gluten feed there is 2.8 pounds of carbohydrates or a carbohydrate equivalent. In 100 pounds of bran there is 12.6 pounds digestible protein, 38.6 pounds digestible carbohydrates and .3 pounds digestible fat. From these figures it is easy to calculate the nutritive ratio of bran.



Dillingham 2506, owned by W. J. Finley, Higginsville, Mo., whose big sale occurs on Feb. 18.

B. M. BELL'S BIG TYPE SOW AUCTION

Beattie, Kan., Wed., Feb. 16, '10



50 head, consisting of a few tried sows, remainder spring gilts. Fifty per cent of the offering bred to Colossus. Four by Nebraska Jumbo and bred to a great son of Big Hadley. The rest to Bell Metal and What's Ex. Everything sired by the boars mentioned and out of the great sows sold at my January sale. They are rich in the blood of all noted big type strains, Expansion, Prince You Tell, Highland Prince, etc.

Remember my January sale was composed almost entirely of yearlings and tried sows. My best gilts are included in this sale. Usual entertainment.

Write for catalog, mentioning this paper.

Send bids to J. W. or Jesse Johnson in my care.

Auctioneer, T. C. Callahan.

B. M. BELL,
BEATTIE, - - - KAN.

HARTER'S Big Type Poland China BRED SOW SALE

at farm 5 miles from

Blaine, Kan.,
Friday, Feb. 18,
50—HEAD—50

30 tried sows and fall yearlings and 10 spring gilts, everything bred for March and April farrow to the 900 pound boars, Captain Hutch 39068, Mogul's Monarch 45858 by Jensen's Mogul and Toulon Prince 50559, grandson of Victor X. L., second prize aged boar at St. Louis World's Fair. The gilts are by the boars mentioned and Dude Faultless by Stylish Dude. Among the sows that go into sale and dams of the offering are sows by Old Expansion, Kansas Chief by Chief Tecumseh 3d, Prince You Tell, Gold Metal, Silver Chief, Thompson's Eli, and What's Ex. In my herd is the great old sow, Lady You Tell 4th, the dam of Prince You Tell. This will be one of the biggest and most useful offerings of the season. I have the ideal hog farm and raise them under the most natural conditions possible, alfalfa, running water and shade. I can afford to sell them at your price. It don't make much difference what they bring just so you attend the sale.

Write for catalog, mentioning Kansas Farmer.

Auctioneers: Henry Trosper, Jas. T. McCulloch. Bids may be sent to Jesse Johnson, Fieldman for Kansas Farmer.

J. H. HARTER,
Westmoreland, - - - Kansas

KANSAS LAND

KANSAS LAND

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220 acres extra fine smooth land, close to Jetmore, 140 acres wheat all goes to purchaser. 80 acres first bottom and good alfalfa land, running water across one corner. Price \$20.00 per acre. Other good lands at very low prices and good terms. Write for price lists and county map.

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Jetmore, Kansas.

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151 acres, good black rich land; 115 acres in cultivation, 35 acres mow and pasture. Bearing orchard, fine water, good 6-room house, other buildings. Burning natural gas, phone and mail route, on main traveled road, only one mile to center of town of 1,000. Half mile to school. Price \$37.50 per acre. Easy terms.

50 acres, limestone land, black and rich, 50 acres in cultivation, 30 acres mow, and pasture. Fine orchard, and small fruits. Fine water, good house and barn, half mile to church, 1/2 mile to school, 5 miles to town, 12 miles to Independence. Price \$2,500. Terms. Come and see us, or write for our list.

L. B. DAVIS & SON,

Elk City, Montgomery County, Kansas.

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THE CREAM OF THE PECOS VALLEY.

Now selling at \$60 per acre. Including fully-paid irrigation water rights. The present price subject to advance without further notice. One thing sure, you can not buy any of this land next year for less than \$100 per acre.

This land in alfalfa alone will pay 100 per cent net profits every year. In fruits 300 per cent. Join us on the next Homeseekers excursion the first and third Tuesdays each month. For further information address

THE HEATH COMPANY,

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800 Acre Stock and Grain Farm

two miles of two railroads and near trolley line, 480 acres rich creek bottom and second bottom, black loam soil, does not overflow, best of corn, alfalfa and wheat land. 800 a. fenced hog tight with good cross fenced, two sets of improvements, No. 1 seven room house, three good barns, all good condition, will care for 54 head of stock, tied; never failing well, soft water, three water tanks, 18 barrel capacity; plenty bearing fruit trees, good stock scales, with house over and stock yards, 20 a. good timber land a life time; never failing supply natural gas to run all machinery and for light and fuel. No. 2 improvements, good seven room house, good water, good barn, barn 36x40, capacity 5,500 bu. grain, 12 tons hay, oat granary and cow shed, some fruit, one-half section pasture land, 200 a. lime stone and 120 a. sand stone, grass, suitable to be made into a good farm, fenced with galvanized wire, hedges, posts one rod apart, good water. The natural gas sold from the 300 a. is \$1,000 cash in advance each year and free fuel for house, 175 a. fine growing wheat. The crops for 1909 will show the real value of this farm. It will be priced on good interest paying basis, one-half cash, balance time if desired, to suit purchaser, low interest. 200 registered cattle, 300 head hogs, all stock priced with or without farm. Want to retire from business. No trades considered. Come and see me.

R. M. DOBSON, Owner,

Independence, Kansas.

LOOK HERE! GREENWOOD COUNTY LAND FOR SALE

122 M-73 acres, 50 acres in cultivation; 20 acres of bottom land; some good alfalfa; 3 room house and fair stable; 3 miles from town and 1-4 mile to school; 4 acres in cultivation; 125 barrel cistern; price \$40 per acre; mortgage \$1,250.

125 E-120 acres, 7 miles from Eureka and four miles from Reece; about 60 acres in cultivation; balance hay and pasture land; 5 room house and barn, cellar and good well, fine orchard; price \$40 per acre; mortgage \$1,200 at 5 1/2 per cent, can run 4 years.

128 M-320 acres of nice smooth land, 1/2 mile from shipping point; about 100 acres in cultivation; balance hay and pasture, nearly all can be farmed; 4 room house, and poor stable; and plenty of good water; price \$35 per acre.

129 E-260 acres, nearly all smooth land, from 250 to 300 acres in cultivation; good improvements; and only 4 miles from Eureka. Price \$30 per acre.

133 K-30 acres, about 60 acres in cultivation; balance mow land. This is all nice smooth land; it has an 8 room house and good barn; 5 1/2 miles from Eureka; price \$50 per acre.

135 H-160 acres, all in cultivation; 4 room house and barn; 1 1/2 miles from Eureka; price \$40 per acre.

136 K-260 acres, mostly bottom and second bottom; 5 miles from Eureka; 2 sets of improvements; one house of 5 rooms and one of 6 rooms, not in very good condition; there is about 150 acres in cultivation; nearly all can be farmed; part of it in alfalfa; price \$40 per acre.

Anything you have to sell or exchange, list with us

Eureka,

G. K. JACKSON LAND CO.,

Kansas.

A HOME

For you at a bargain price, 320 acres fine level land. For particulars write to

Winn Realty Co.,

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KINGMAN CO. LANDS

Banner wheat and corn county of the state. Write for selected list.

BROWN REAL ESTATE CO.

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BUY WESTERN KANSAS LAND.

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

Vernon Williams,

Wichita, Kan.

Good Bargains

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

Wm. Forbes,

Fall River, Kan.

SHAWNEE CO. 80

Eight miles south Topeka, 1 1/4 mile from R. town, 5,000 bearing apple trees, all fenced with woven wire, land adjoining is selling for \$100 per a. Owner lives too far away to look after it and will sell it at the assessed valuation of \$75 per acre. Hurry.

W. J. RICKENBACHER,

100 E. 6th St.,

Topeka, Kan.

SNAPS!

35,000 acres in McMullen Co., Texas, all good level land, black sandy loam, price \$10.00 per acre.

75,000 acres in southwestern Texas, \$1.35 per acre.

300 acres near Marquette, McPherson Co., Kansas. Well improved. Price \$10,000.

CHAS. PETERSON, Hutchinson, Kansas.

HELLO FARMERS!

Have you read my list of GREENWOOD C. FARMS? The best corn, alfalfa, clover, cattle and hog country in the west. Fine blue stem pastures. Write for list and prices to

P. D. Stoughton,

Madison, Kan.

BARGAIN

160 acres 1 mile from the County Seat, 100 acres in cultivation, 80 acres of good alfalfa land, nice smooth land, good location. Price \$4,000. Three years time on \$1,500 at 6 per cent, bal. cash.

LOHNES & CASON

Ness City,

Kansas.

FOR QUICK SALE

At a bargain, to settle an estate, a 50-barrel Water-Power Mill, in good repair; can get wheat at mill door; three miles from railroad, six miles from county seat; good grist trade. Property consists of 45 acres of good Solomon River bottom land; two houses, five and six rooms, barn and good feed lots; 11 acres alfalfa; ten acres of wild hay. The business has been carried on for thirty-two years. Must sell to settle the Tanquary estate. Address

A. G. MEAD, Administrator,

Beloit,

Kansas.

HOMESEEKERS

Send for a copy of the Southeastern Kansas Homeseeker, the best land journal published. It's free to those wanting homes or investments. We make a specialty of lands on small payments and easy terms. Address

The Allen County Investment Co., Longton, Kan.

Every Man Is Entitled To a Slice of This Good Old Earth.

Some Are Getting It; Some Are Not.

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

FIELD NOTES

FIELD MEN.

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

PURE BRED STOCK SALES.

Percherons.

Feb. 15—Whitewater Falls Percherons at Wichita, Kan., J. C. Robinson, Towanda, Kan.
March 4—Dispersion, J. A. Gifford, Beloit, Kan.
March 4—J. A. Gifford, Beloit, Kan.
March 9, 10—At Lincoln, Neb., O. P. Henderson, Hebron, Neb.

Jacks and Jennets.

Feb. 28—W. J. Finley, Higginsville, Mo.
March 1, 2—L. M. Monsees & Sons, Smith-ton, Mo.
March 3—Petty Bros., Sedalia, Mo.

Jersey Cattle.

Feb. 15—O. P. Dovel, Auburn, Neb.

Shorthorns.

Feb. 22—Frank P. Cooke, Beloit, Kan.
Feb. 24—Clover & McGlynn, Grandview, Mo.
June 10—C. S. Nevius, Chiles, Kan.

Herefords.

March 1, 2, 3—Sunny Slope Herefords, C. A. Stannard, Emporia, Kan.

Poland Chinas.

Feb. 16—B. M. Bell, Beattie, Kan.
Feb. 16—Logan & Gregory, Beloit, aKn.
Feb. 16—J. D. Spangler, Sharon, Kan.
Feb. 18—Miller & Manderscheid, St. John, Kan.
Feb. 18—J. H. Harter, Westmoreland, Kan.
Feb. 18—F. A. Dawley, Waldo, Kan.
Feb. 23—G. S. Hamaker, Pawnee City, Neb.
Feb. 25—Chas. O. Parsons, Clearwater, Kan.
Feb. 25—Lee Gress, Nelson, Neb., and John Barnard, Angus, Neb., at Nelson, Neb.
March 4—L. R. Berkey, Louisville, Kan.
March 10—C. W. Dingman, Clay Center, Kan.

Duroc Jerseys.

Feb. 16—Logan & Gregory, Beloit, Kan.
Feb. 17—Frank Elder, Green, Kan., sale at Clay Center, Kan.
Feb. 21—W. T. Fitch, Minneapolis, Kan.
Feb. 23—R. G. Sollenbarger, Woodston, Kan.
March 22—S. W. Alfred & Son, Sharon, Kan., sale at Enid, Okla.

Shelley Bros., of Elmdale, Kan., were the lucky winners of the special prize offered by Kansas Farmer for the largest number of Barred Plymouth Rock chickens scoring 88 points or over that were shown at the Kansas State Poultry Show, held at Wichita during the week of Jan. 10. Shelley Bros. breed Barred Rocks exclusively with double mating for exhibition stock. They were heavy winners at the Central Kansas Poultry Show at Hutchinson, the Kansas State Poultry Show of 1909 and the Kansas State Fair of 1908 and 1909. They announce that every bird in their yards is a prize winner or descended from prize winning stock. Write them if you want the best.

W. J. Finley's sale will open the circuit of central Missouri jack sales and it will expose some of the best jacks that have ever been offered from the Finley farm. The 40 head which have been selected for this sale will include 20 aged jacks, the equal of which have never before been owned by Mr. Finley. In fact, this sale is his greatest effort in behalf of the jack business and it is important that all prospective buyers keep it in mind. Among the aged jacks that will be offered in this sale we call especial attention to the great Jack Midland King. He is one of the real topnotchers of today. This jack is full 16 hands high, black with white points and just six years old. There will be seven 2-year-olds, five yearlings and eight jack colts. It is important to note that there is only one and one-half inches difference in the size of all the mature jacks that will go into this sale. The catalogs contain full descriptions and measurements of the jacks of all ages. It will be mailed to any address. Get your name on the list and be Mr. Finley's guest at Higginsville, Mo., Monday, Feb. 28. Kindly mention Kansas Farmer when you write.

Poland China Bred Sow Sale.

On March 4 I R. Forkey, of Louisville, Kan., will sell a valuable lot of bred sows and gilts. All will be bred for early litters. If you are thinking of buying a good sow or bred gilt it will pay you to get in touch

with Mr. Forkey. He has an extra good bunch of sows with both size and quality combined and bred along all the popular lines. Watch for further mention in Kansas Farmer.

Sollenbarger Disperses His Durocs.

On Wednesday, Feb. 23, R. G. Sollenbarger, of Woodston, Kan., will disperse his herd of Duroc Jerseys. Mr. Sollenbarger has just recently decided to close out his herd to accept a position on a well known farm paper as fieldman. There will be some great sows offered in this sale and the offering will number about 45 head. Further mention will be made concerning this dispersion sale later on. His advertisement appears in this issue of Kansas Farmer.

Don't Fail to Get a Catalog.

Feb. 18 will be the day to buy good Poland China bred sows and gilts at the F. J. Miller farm near St. John, Kan. This offering is a very high class one and it will be the first sale of the season held in this locality. For breeding and individual merit this herd needs no further mention. They are all close up in the most popular blood lines. Send and get a catalog. It tells the story. Make your arrangements early to attend this sale. See ad on another page of this paper.

Teagarden's Recent Sale.

T. P. Teagarden, Duroc Jersey breeder of Wayne, Kan., held his regular annual bred sow sale on Feb. 4. Extremely bad roads prevented the farmers from coming and the result was a low average. The offering was an unusually good one and should have brought much better prices. The top price paid was \$39. Among the best buyers were W. B. Monnesmith, Formosa, Kan.; S. W. Rossiter, Hollis; O. D. Grimm, Republic; Rhineheart & Slagle, Smith Center; O. M. Abraham, Wayne; Grant Hutchinson, Wayne; Chas. Kellogg and other local buyers.

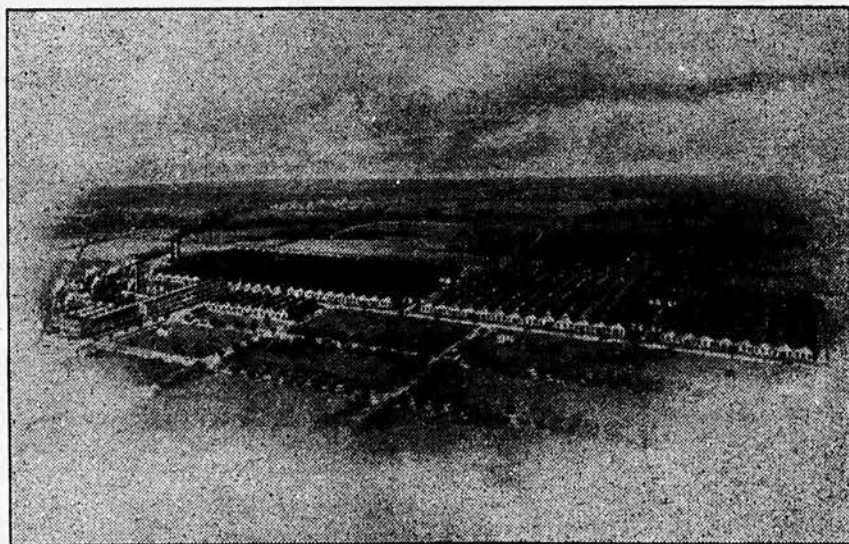
Stodder's Duroc Jerseys.

There are many herds of Duroc Jerseys in Kansas, but there are but few that equal or excel the Silver Creek herd owned by J. F. Stodder of Burden, Kan. It has taken years of the soundest judgment and plenty of money to build up this herd, but the present results have justified the means and Mr. Stodder now has a herd of which both himself and the state can be proud. Read over his advertisement and then ask him for breeding and prices. Both will please you and the latter will be especially satisfactory. Mention Kansas Farmer when you write, please.

Berkshires at Auction.

Kansas Farmer readers who are in the market for Berkshire hogs should bear in mind the sale to be made by Mr. F. T. Hadachek of Wayne, Kan. The date of this sale is Thursday, Feb. 24. Mr. Hadachek has a fine offering of bred sows and gilts that will be sold safe in pig to a good son of Black Premier. The sows and gilts are representatives of the very best Berkshire families for, in buying foundation stock for the herd, nothing has been spared. The best has always been secured regardless of cost. Many good herds have been drawn upon, the famous Kinloch farm at Kirksville, Mo., included. Let no breeder or farmer get the idea that Mr. Hadachek is selling common stuff for it isn't the case. Attend the sale if possible or send bids.

Watson, Woods Bros. & Kelley's Big Horses. Just across the street from the Nebraska Agricultural College at Lincoln, Neb., is an institution that is well worthy of a visit by every one who is interested in draft horses. Here is located the headquarters office and the big barns of Watson, Woods Bros. & Kelly. The writer does not know how much space is under roof in these big barns, nor does he know exactly how many horses are there, but he does know that a visit there is equivalent to seeing a good horse show. Percherons are perhaps the predominant breed represented, though Shires and Belgians are numerous and attractive. The barn is an enormous one and a suitable home for the big ton horses. The business of Watson, Woods Bros. & Kelly has grown to such an extent that they are obliged to keep one member of their firm in England and France practically all of the year round that he may buy the quality of animals needed to supply the demands of the trade which this firm of young hustlers has built up. The Woods Bros. of this firm are sons of Col. F. M. Woods, the king of live stock auctioneers, and they have grown up with a thorough acquaintance with the live stock business. Their activity was such that their business grew beyond the facilities afforded by the Lincoln barns and a year ago they bought out the property and good will of the Lincoln Importing Horse Company and the firm is now bigger and doing more business than both the old firms did before the consolidation. It is worth the expense of time and money that would be necessary to visit Lincoln and see this great importing company and their horses. If you can not do that, however,



The Rambler Automobile Factory, Kenosha, Wis.

The overland delivery of automobiles, made popular by the makers of the Rambler at Kenosha, because of the location of that factory in the geographical center of the great automobile buying territory of the middle west, is offered as one solution for the problem of freight rates on automobiles, at least over short hauls. Many owners of the Rambler throughout Illinois, Wisconsin, Michigan, Indiana and Iowa have purchased their cars at the factory and have driven them across country to their homes. This gives them an opportunity to learn something first hand regarding the building of the car, the operations of the largest automobile factory in the world and their first lesson in operation over country roads. The Rambler people say that they their first lesson in operation over country roads each week. Every train on the Northwestern, and there is one every hour to and from Chicago, is met by a big Rambler touring car with an experienced driver. The visitors are whirled out to the Rambler factory, given a guide to conduct them through the plant and allowed to inspect every minute process in the making of this automobile.

KANSAS LAND

IF YOU WANT

The right land, at the right price, in the right place, from the right man, write right now to

H. D. Hughes,

McDonald, Kan.

FOR FREE INFORMATION about Allen County lands, write F. W. Frevert, 51 years a Kansan. Gas City, Kan.

FREE LIST ANDERSON COUNTY, (Eastern Kansas) farms. Send your name today. The Wilson Land Co., Colony, Kan.

BARGAINS FOR QUICK SALE.

In Clay county farms, in well improved 90 and 160 acre tracts, for January and February. Write for my list. "There's a place for Everybody." George H. Bigler, Clay Center, Kan.

NESS COUNTY, KANSAS LAND.

Good soil as any in the state at \$10 to \$15 per acre, well improved land \$15 to \$25 per acre. Partly rough at \$6 to \$8 per acre. Come before the new railroad gets here or write

J. G. COLLINS, Ness City, Kan.

320 ACRE HOG FARM.

60 alfalfa, 40 fenced, hog-tight, 3 miles Anthony, near school; new house and barn, large new hog house. Good corn, wheat, alfalfa land, \$60 acre. Can sell balance section, which is well improved. Booklet free.

J. E. COUCH LAND CO., Anthony, Kan.

NESS COUNTY LAND.

\$4,000 will buy a quarter section of fine smooth land, 1/4 mile from center of Ness City, all fenced and in cultivation. Fifty acres in wheat. Other good corn, alfalfa and wheat land at \$15 to \$35 per acre. Write for information.

J. C. Lohnes & Son, Ness City, Kan.

McPHERSON COUNTY STOCK FARM.

320 acres rolling land stock farm, well improved, 7-room house, 2 barns, fine water, fruit, some timber, all fenced, crossed about half in cultivation, 40 acres alfalfa, 20 acres hog tight. R. F. D. Phone. Price \$14,500. Easy terms. Write

ROY T. GLASS, Canton, Kan.

320 ACRES FOR SMALLER FARM.

All choice tillable land, 200 acres in cultivation, 6 room house, frame, barn, cribs, granary and sheds, good orchard, an abundance of good water. Price \$45 per acre.

J. M. McCown, Emporia, Kan.

EASTERN KANSAS BARGAINS.

1. 320 a. well improved, near town, \$45 a. 2.—160 a., good improvements, close in, \$45 a. 3.—160 a., finely improved, \$9,600. 1,152 a., great ranch, finely improved; easy payments, \$25 a. Write for list.

JOHN TAGGART & SON, Kansas.

800 ACRE BARGAIN IN NESS COUNTY, KANSAS.

Only 1 1/4 miles from Ness City, all in cultivation and will all be sown to wheat and 1-4 crop goes to purchaser. Price for a short time \$25 per acre. Look this up, a genuine bargain. Let us send you our land list.

Kirberg & Miller, Ness City, Kan.

BARBER COUNTY.

500 acres, 3 miles Medicine Lodge, 300 in cultivation, 10 alfalfa, 150 fine alfalfa land, 20 timber, well improved, house, barn, outbuildings, etc., practically new. Price \$35 acre. Other farms.

T. L. LINDLEY & CO., Kansas.

IMPROVED FARMS.

\$35 to \$60. Producing immense crops corn, wheat, and alfalfa. Nearly every farmer has 10 to 100 acres alfalfa. Fruits of all kinds, and vegetables do well. List free.

W. C. ALFORD, The Pioneer Real Estate Agent, Hazelton, Kansas.

LABETTE COUNTY BARGAINS.

184 a. 10 mi. from Coffeyville, 1 mi. from Valeda, dandy creek bottom farm, 60 a. in cult., bal. mow land and pasture, some timber, new house and barn, newly fenced, 1 mi. to school. Rural R. Tel., only \$6,000.

THE BOWMAN REALTY CO., Coffeyville, Kansas.

EASTERN KANSAS FARM—360 acres, 6 1/2 miles from R. R. town, 135 a. in cult., 40 a. good alfalfa land, 10 a. hog tight, balance wild grass pastures and meadow. Good 8 room house, cellar, poultry house, etc. Barn for 10 horses, 2 cattle sheds, 2 windmills, fine orchard and small fruit. R. F. D. and Phone. 1 1/2 mi. to school, 3 mi. to church. Land lies well, no waste. Price \$15,000. Write for list. C. H. Dennis Land Co., Burlington, Kansas.

SEDGWICK COUNTY FARM BARGAIN.

160 acre farm, all level, black soil no waste land, corn, wheat and alfalfa land; 90 acres in cultivation, 70 acres in native grass; fenced with hedge and wire and cross fenced; one of the best producing farms in the county; only 15 miles from Wichita and 4 miles from a good grain shipping point with two elevators two railroads. Possession given if taken before the 1st of March, for quick sale \$55 per acre.

Beatty Realty Co., Opp. P. O., Wichita, Kan.

160 ACRES

4 miles of R. R. station, 6 miles of Attica, 120 a. in cult., 40 a. in wheat, all goes with farm; some alfalfa, balance pasture and mow land. Half of this farm is fine alfalfa land, bal. good corn and wheat, 5 room house, good barn, cribs and granaries, good orchard, grove, fine water, 1 mile of school black sandy loam soil, a fine farm. Price \$9,500, with terms.

HILTON & GARRISON, Attica, Kansas.

FOR SALE.

I offer a special bargain this week in a half section of smooth land, 1 1/4 miles from Colby, Kansas, the county seat, all broke out and seeded to winter wheat, in good season, all the wheat to go with the land. This wheat crop will go a long ways toward paying for the land. Price \$25 per acre. It will pay you to investigate this by writing the owner.

IKE W. OUBLY, Colby, Kansas.

KANSAS LAND

MONTGOMERY COUNTY LANDS.

Montgomery county is second in population and 5th in wealth in Kansas. Write for list of choice farm bargains and prices. W. J. Brown & Co., Independence, Kan.

SALINE AND DICKINSON COUNTY BARGAINS.

\$30 to \$85 per acre. Any size tract, from 80 acres up. T. E. MALE, Solomon, Kan.

BARGAINS IN WASHINGTON COUNTY

land. 430 acres creek bottom under cultivation, 4 miles from Washington, 1 mile to school, 2 sets of improvements, good water. Price \$55 per acre.

W. J. Gordon, Washington, Kan.

240 ACRES

80 alfalfa, 60 wheat, 25 winter oats, well fenced, 80 acres woven wire, good 7-room house, stable, windmill, fine water, 4 miles railroad town. Splendid home and money-maker. Price \$13,000.

IKERD & GREEN, Kila, Kan.

IDEAL HOG AND ALFALFA FARM.

325 acres, 2 1/4 miles Anthony, 80 alfalfa, 200 in cultivation, balance fine pasture with never-failing stream of clear water; well fenced; large house and barn, both new. Price \$16,000. Liberal terms. Other farms.

SMITHSON & HOLADAY REALTY CO., Anthony, Kansas.

\$3,000 CASH

Balance by owner, buys good 160 acre farm 3 miles from Arkansas City, Kan. 220 fine bottom farm at \$55 per acre. 160 all hog tight, good farm at \$50 acre. 240, most all Walnut river bottom, don't overflow, fine farm, at \$60 per acre. Ask for our thirty page land list.

Wm. Godby Co., Arkansas City, Kan.

ACT QUICK.

Owner wants to sell great combination farm. Good buildings, rich bottom, well set pastures, splendid shade, unfailing water, springs, good timber, lots alfalfa, six miles Winfield telephone, R. F. D. everything you want. Price \$40 acre.

Franks, Page & Harris, Winfield, Kan.

McPHERSON COUNTY BARGAINS.

240 acres, 2 1/4 miles from railroad town, 130 acres cultivated, 6 is creek bottom and fine alfalfa land, balance corn land, 110 acres good pasture, fine water; new house, barn and other buildings. Well worth \$10,000. For quick sale owner will take \$9,000. With cash payment of \$3,000 or less. Possession March 1st. Don't pass this by. Act quick. It won't last very long. Write

JOSEPH A. BRANDT, Lindsborg, Kansas.

CHOICE FARM FOR SALE—Farm contains 337 a. with 5 1/2 mi. of woven wire fence, 3 1/2 mi. from Harper. Will raise all crops grown in the section. Ideal for alfalfa, wheat, corn, oats, barley, cow-peas and fruit. Fruit now growing in abundance. Good 6-room house, large barn, granary, stock sheds, poultry house and other buildings. Fine well of water and running water through farm. 200 acres under cultivation with 140 acres of wheat, 8 of alfalfa. For terms, etc., apply to J. C. ELVIN, Harper, Kansas.

FARM BARGAINS NEAR TOPEKA.

160 acres, 5 r. house, good barn, all smooth 8 mi. Topeka, \$50 per a. 160 acres, 9 mi. Topeka, good imp., good land, \$57.50 per a. 160 acres, 12 mi. Topeka, 60 a. cult., bal. meadow, \$50 per a. 320 acres fine imp., all smooth, 10 mi. Topeka, \$70 per a. 80 acres 3 1/2 mi. Topeka, fine imp., \$75 per a. 160 acres, 4 mi. Topeka, good imp., \$80 per acre. The above are all bargains. Come and look over our big list of farms before buying. We can save you money.

GILLET & GILLET, 104 W. 5th St., Topeka, Kansas.

80 ACRES

5 miles of Ottawa, Kan., nice improvements, plenty of good water, R. F. D. and telephone. Price \$4,600. A fine place for a young man.

160 acres 1 mile from town in Anderson Co., Kan., improved, nice orchard, R. F. D. and telephone. Only \$45 per acre, 240 acres well improved 3 1/2 miles of town, R. F. D. and telephone, good water, fine place. A big bargain at \$55 per acre.

MANSFIELD LAND CO., Ottawa, Kan.

EASTERN KANSAS FARM BARGAIN. 60 acres adjoining Osage City, 32 acres in cultivation, 22 acres of which is in red clover and timothy, 1 acre orchard, barn clover and timothy, 1 acre orchard, balance blue-grass and white clover pasture, 6 room house, barn for 10 head of stock, corn crib, hen house, hog and cattle shed, plenty of good water, close to high school, R. F. D. and telephone, all nice smooth land, and a fine dairy farm. Price \$3,600. For particulars write

J. C. RAPP, Osage City, Kansas.

OTTAWA COUNTY FARM BARGAINS.

80 a. improved, 4 miles out, \$2,600. 80 a. improved, 6 miles out, \$2,600. 80 a. unimproved, all in cult., \$2,800. 120 a. improved, 4 miles out, \$46 per acre. 160 a. improved, 6 miles out, \$4,800. 160 a. improved, 5 miles out, \$6,000. 220 a. improved, 3 miles from town, \$10,000.

320 a. nicely improved, 5 miles out, all good plow land, extra good, 10 miles Salina, \$40 per acre. We have others. Come or write.

SHEPARD & HOSKINS, Bennington, Kansas.

HIGHLY IMPROVED STOCK FARM.

This place consists of 199 a. and has just been placed on the market. Is located 4 miles from this town and is one of the best improved and considered the best place for its size in the neighborhood. Can be bought now at \$67.50 per acre and purchaser gets possession March 1st. Can give terms to suit. This place has 25 a. of alfalfa, about the same in clover, a small piece of timber, making excellent feeding lots and balance corn land. Is close to school and has both phone and R. F. D. Clip this ad and come at once. Other propositions.

C. E. TINKLIN, Corning, Kansas.

and will mention Kansas Farmer to them in your letter asking for one of their splendid new catalogs, they will send it to you and through it show you the pictures of something like a hundred of their horses just as they appear at the home barns.

Petty Bros. Sell High Class Jacks.

On March 3 Petty Bros. will sell at Sedalia, Mo., a very high class offering of Jacks and Jennets. While this is their third annual sale, this will be the best lot ever sold by the Petty Bros. There will be 25 Jacks and 15 Jennets in the offering. The Jacks are all old enough for service and 20 of them are broke to work. They are from 14 1/2 to 16 hands high and it is important to note that there will not be an off colored Jack or Jennet in the entire lot. All of the show Jacks which made such pleasing records at the Missouri state fair last fall will be included in the sale offering. The great Jack Tennessee King is included among this lot. He is a three-year-old and has never been defeated in the show ring. He was the champion Jack at the Missouri state fair in 1909 and defeated many high class animals. Tennessee King will be offered on the day of the sale weighing close to 1,200 pounds. He is perfectly marked and stands 16 hands high. His owner regards him as being one of the strongest bred Starlight Jacks that was ever offered for sale. The 15 Jennets which are listed for sale are all over two years old and they will average above 15 hands high. Eight of the number will be sold safe in foal to the great Jack Orphan Boy. The catalogs of this sale are now ready. Don't fail to get your name on the list for one and arrange to attend this week's sales, starting with W. J. Finley at Higginsville, Feb. 29; L. M. Moness, March 1 and 2, closing at Petty Bros at Sedalia, Mo., March 3. Kindly mention Kansas Farmer when you write.

Hamaker Sells Polands Feb. 23.

Farmers and breeders who want the great big smooth kind of Poland Chinas with ancestors that will assure their breeding will be interested in G. S. Hamaker's sale to be held at his farm near Pawnee City, Neb., Wednesday, Feb. 23. On this date Mr. Hamaker will sell 40 head of as good Poland Chinas as ever went through a sale ring in Nebraska. Composed of tried sows and big February and March gilts, many of them weighing 400 pounds each. The gilts were sired by Growthy King, one of the greatest boars of the breed. He is both big and smooth, weighing in his yearling form, 775 pounds. He is very mellow and transmits this quality at a very marked degree. His sire was the 1110 pound boar Long King and his dam came from the noted Giantess family. A big percentage of the offering were bred to the great breeding boar Looks Grand who formerly headed the good herd of H. S. Chapman & Son. Looks Grand is the boar that sired the 45 boars and gilts that sold in their fall sale at an average of \$34.50, the best average ever made by a breeder in the west on a like number of pigs sired by one boar. The offering was pronounced by everyone seeing them as one of the best bunches sold last fall. Mr. Hamaker's fall sale averaged \$35.10 so it is reasonable to believe his kind of sows mated to a boar like Looks Grand will produce something good. Looks Grand was sired by the great show boar Grand Look and his dam carried the blood of old Expansion. In the offering will be daughters of Big Hadley, King Do Do, Expansion See and Johnson's Chief. The dams of the gilts included are sows bred along these lines. Mr. Hamaker is the oldest and one of the most successful breeders in Southern Nebraska. His representations can be depended upon and breeders that attend his sale will never regret it. Send for catalog before you forget it. Mention Kansas Farmer when you write.

Kansas' Great Hereford Herd Dispersion.

While it is with sincere regret that we announce the dispersion of the great Sunny Slope herd of Hereford cattle which will take place at Emporia, Kan., on March 1, 2 and 3, we cannot help but feel that there are compensations. Breeders all over this land will regret that other business interests compel Senator C. A. Stannard to sell his entire herd and yet these same breeders and many farmers who may become breeders will profit by this sale. About 20 years have been spent in bringing this herd to its present degree of perfection and it is, perhaps, the best known herd of the breed in the United States today. It was on the pleasant acres of Sunny Slope that Wild Tom 51592 made his own great reputation and that of the breed in the west. The great Saxon 76082, Java 64045, Beau Mystic 179920 and other bulls of exceptional merit have followed him and Sunny Slope is now a wonderland to the lovers of good cattle. A total of 200 head will be sold in the 3 days' sale, of which 170 will be cows and heifers. The



entire show herd will be included, in which may be noted Adriana 2nd 163621, who was the leading show cow last year and now has a fine bull calf at foot by Beau Mystic. About this offering Mr. Stannard says: "Sunny Slope Herefords have been so well known for the past 15 years that it seems hardly necessary for me to say anything concerning this herd. However, the cattle will be presented in good thrifty breeding condition, just as they are kept at the farm, without any crowding to injure their usefulness. About fifty of the females have calves at foot and most of the others that are old enough are bred and many of them are near their calving or will be at the date of the sale. I do not believe a better bred or a better individual lot of Hereford cattle will be offered buyers in many years to come than will be offered you on March 1, 2 and 3. In fact, it is seldom you have an opportunity to come and take your choice from one of the greatest herds in the country."

KANSAS LAND

FREE—New list Harvey, Marion, Butler, Chase County corn, wheat, alfalfa and ranch lands. Send your name today. MID-LEVEL WEST LAND CO., Peabody, Kan.

FOR SALE TO PLAT.

55 acres adjoining Wichita City limits, that will sell for \$100 a lot, 8 2-3 lots to the acre. This will be \$875 per acre. We will sell it for \$125 per acre for the next 30 days and 2,600 acre well improved ranch in Meade Co., per acre, \$10.

J. F. Bellow & Co., 110 Main St., Wichita, Kansas.

FOR SALE.

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

MANVILLE & BAILEY, Holton, Jackson Co., Kansas.

HARPER COUNTY.

Home of corn, alfalfa and wheat. Lands \$25 to \$75 acre, that would be cheap at twice the money. Values advancing rapidly. Now is the time to buy. Descriptions, and full information free.

HEACOCK REALTY CO., Anthony, Kansas.

THE BEST TOWN TO LIVE IN.

If you would like to live in the most beautiful city in the West, with unsurpassed education, business and religious advantages, in a city clean, progressive, where real estate values are low, but steadily advancing, where living expenses are reasonable, a city with natural gas at lowest prices, address the Secretary of the Commercial Club, Topeka, Kan.

SCHUTE & SHINEY, the Rush County, Kan., real estate hustlers, 30 years in the same old place. Good farmers raised from 25 to 47 1/2 bushels of wheat per acre here last season. We can sell this land at from \$20 to \$25 per acre. Good improved ranch land, 1/4 good farm land, at \$15 per acre. Good bottom land not over 5 miles from market at \$25 to \$35 per acre. Well improved and running water, plenty of timber. See us or write us at La Crosse, Kan.

BEST FARM IN KANSAS.

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

Neal A. Pickett, Arkansas City, Kan.

ARE YOU LOOKING FOR A HOME?

No farmer should think of buying a home before seeing a copy of THE FARM AND REAL ESTATE JOURNAL. It contains the largest list of farm lands city property and stocks of goods of any paper published west of Chicago. It reaches 50,000 readers each issue, 85 per cent of whom are farmers. Every one who has any property they wish to advertise will find this journal one of the best advertising mediums published. Advertising rates 2c per word each insertion. Send 75c and we will mail you the Journal for one year, or for 10c in silver or stamps we will send it for two months on trial and stop it at the end of the two months unless you renew your subscription. Farm and Real Estate Journal, Tracer, Ia.

PRICED TOO CHEAP

at \$35.00 per acre, but the owner, who has rented it for a number of years, has moved to Wichita and cannot look after it; 10 acres in Cowley Co., 5 miles from R. R. town, good roads, 1 mile from inland town with church and school; all smooth, level land without a rock or foot of waste; fenced and cross fenced; 80 acres in cultivation, 5 acres hog lot, balance pasture, small orchard, fair improvements, telephone and R. F. D., alfalfa land, 8 to 20 feet to water. If you are looking for a good cheap farm, don't let this get away. \$2,100 will handle.

Sharp Realty Co., Wichita, Kan.

GOOD BARGAINS NEAR WICHITA.

80 a. all in cultivation, 15 a. alfalfa, good black loam soil, fine for alfalfa or corn, 5 room house, barn for 6 horses with mow, granary, crib, hen and hog houses, buildings are all new, lots of woven wire and hog lots, good orchard and shade, fine water. Located 10 miles from Wichita and near good R. R. town on R. F. D. and phone. Possession can be had at once. Price \$6,000 for short time only. Come and see this.

ONE ACRE GROUND.

good store building, with 8 living rooms and general stock merchandise, good barn, granary, berries, etc. Located in a town surrounded with prosperous farmers. Price \$1,000; party must sell, this is a first class proposition for a good Catholic. Come and see this.

THE NELSON REAL ESTATE & IMG. CO., 137 N. Main St., Wichita, Kan.

LANE COUNTY KANSAS

Offers bargains in wheat and alfalfa ranches at \$10 to \$20 per acre. Write for my price list and investigate at once.

WARREN V. YOUNG,

Dighton, Kansas.

AN IDEAL FARM FOR SALE.

Kansas farm of 800 acres, adjoining a flourishing railroad town, forty miles west of St. Joseph, Mo. The soil naturally rich, has been made more fertile by twenty years of judicious crop rotation and by the liberal application of manure; well watered, fine walnut timber, finest blue grass pastures, alfalfa, timothy and clover meadows; finest corn and wheat land; well fenced; hay, cattle and horse barn for a large amount of live stock; large silo, water tanks, granary, fine mill, etc. A model stock or grain farm, ready for use. An excellent opportunity. For complete information address K 225, care Kansas Farmer, Topeka, Kan.

EASTERN KANSAS FARM BARGAINS.

160 acres Dickinson county, near Solomon and Abilene, guaranteed perfectly smooth rich land, 7 room house, barn 28x48, 82 a. wheat, one-third to purchaser, \$12,000; 160 a. 17 miles Topeka, 5 mi. town, 40 a. clover all in cult., good 6-room house, barn 48 by 60, extra fine farm, only \$9,000; 80 a. 11 mi. Topeka, 75 a. in cult., no waste land, new 5-room house, small barn, spring water, \$5,000. Write for list stating what you want, as we make specialty of selling farms worth the money.

Wingett Land Co., Stormont Bldg., 109 West 6th, Topeka, Kan. A. J. White, Farm Salesman.

TEXAS LAND

TEXAS LAND

A PARADISE RECLAIMED

15,000 Acres Actually Irrigated in the
BEAUTIFUL PECOS RIVER VALLEY OF TEXAS.
 Deep, rich soil. Abundance of water. Delightful climate. Right on Santa Fe
 Railroad Station in center of the tract.

DAM, RESERVOIR, CANALS, ALL COMPLETE NOW.

Free Water with every acre. Selling fast. Act quick if you want an actually ir-
 rigated farm cheap, or an investment that will pay you 50 per cent annually. Excur-
 sions and cheap rates first and third Tuesdays of each month.
 Most desirable irrigated land and townsite proposition on the market today. Send
 for interesting booklet. Tells you all about it. Good live agents wanted in every locality.
ARNO IRRIGATED LAND CO., Kansas.

Topeka,

COLORADO LAND

COLORADO LAND

CALL OF THE WEST

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

BE INDEPENDENT—DO IT NOW.

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

These lands are in Logan and Weld counties, and the famous Crow Creek Valley.

THE BEST OF NORTHWESTERN COLORADO.

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

THE WESTERN LAND CO.

STERLING,

COLORADO.

Kiowa County, Colo., Land.

12,000 acres of choice wheat land offered in quarters and half sections. On line
 of Mo. Pac. R. R., close to three good towns.

Prices range from \$5.00 per acre upward.

Write for terms and descriptions.

ALBERT E. KING,

McPherson, Kansas

IRRIGATED FARMS.

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

J. B. TRAXLER, Lamar, Colo.

WE SELL THE BEST IRRIGATED LANDS

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

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

COLORADO ALFALFA

Was first prize among standard farm
 crops in Eastern Colorado, near Denver.
 One year's alfalfa crop more than pays for
 land now selling from \$15 to \$25 per acre.
 Wheat, oats, potatoes, do equally well on
 fine soil, \$12.50. These are bargains. We
 buy, sell or trade.

ASK COLORADO FARM LAND ASSOCIATION, 879 Dearborn St., Chicago, Ill.

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

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

\$1 MAKES ANOTHER — WHERE

In the South Platte Valley, Morgan coun-
 ty, Colo. Money invested in land here will
 double itself in 3 years. Write for full
 particulars to

E. E. SEAMAN, Brush, Colorado.

Colorado Lands and Sunshine

If you are looking for a home, investment
 or health, where the climate is perfect,
 where there is the best class of people,
 churches, schools and no saloons, where
 there are thousands of acres of choice land
 coming under irrigation and selling very
 cheap, you will do well to write us for new
 printed matter on Morgan Co., Colo. Address

THE B. W. JACKSON REALTY CO.,
 Fort Morgan, Colo.

"A FREE RIDE TO COLORADO."
MUNTING PAYS THE FREIGHT.
FARMS, SHEEP, and also CATTLE AND
HORSE RANCHES.

I own 40,000 acres of choicest lands in
 Washington and Yuma counties, and am of-
 fering both improved and raw lands at
 prices far below all others, and on terms to
 suit all purchasers. Monthly payments if
 desired. 160 and 320 acres Relinquishments
 adjoining lands offered for sale. Best of
 wheat, oats, cane, corn, potatoes and alf-
 alfalfa lands. I refund railroad fare and
 Hotel Bills for those who purchase of me.
 All lands are level, smooth and rich farm
 lands. NONE better. COME NOW and buy
 homes and get the free ride. Why pay big
 commission when you can buy direct from
 the owner. Write for maps, plats, price
 lists and explanations and proofs to
AUGUST MUNTZING, Akron, Colorado.

320 ACRES DEEDED LAND.

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

BELL & WHITE,
 Lamar, Colo. Civil and Irrigation Eng'rs.

LAND BARGAINS.

We undersell all others in low priced
 lands in Eastern Colorado, with small cash
 payments down. These lands adjoin lands
 now being farmed. Stock ranches a spe-
 cialty. If you are interested write for free
 descriptive circular.

HENRY M. CHASE LAND CO.,
 Denver, Colorado.

YUMA COUNTY, COLORADO.

We own and have for sale 3 160-acre
 tracts unimproved, nice laying land, 8 miles
 from Yuma, Colo., \$15; also 1/2 section and
 single 160 acres 15 miles from same town,
 fine soil, \$12.50. These are bargains. We
 buy, sell or trade.

YUMA COUNTY REAL ESTATE CO.,
 Wray, Colorado.

DO YOU WANT A HOME?

Buy now in Washington county, Colo.,
 where choice land, with best of soil can be
 had; where good farmers raise from 20 to
 45 bu. wheat per acre and oats barley, corn,
 alfalfa, potatoes and alfalfa grow abundantly
 on upland, without irrigation; in a county
 rapidly settling and being improved by good
 thrifty farmers. We have many tracts of
 choice, smooth, fertile farm land, healthful
 climate and abundance of good water, at
 prices ranging from \$8 to \$15 per acre. If
 you are looking for good investments, write
 or see

Vanderhoof & McDonald, Otis, Colo.

ROCKY FORD BARGAIN—ACT QUICK.

480 acre well improved sheep or cattle
 ranch, 6 miles from Rocky Ford, 80 acres
 under ditch and in cultivation, mostly
 alfalfa. Good 8 room house, complete out-
 buildings. Price \$15 per acre, 1/2 cash.
 Several thousand sheep are now being fed
 on this ranch. Investigate at once if you
 are looking for the biggest bargain in this
 valley.

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

Colorado Irrigated Land

22,000 acres of irrigated Government land
 in Southeastern Colorado has recently been
 opened for entry under the provisions of the
 Carey act. The State of Colorado has con-
 tracted with the Two Buttes Irrigation and
 Reservoir Company to construct the irriga-
 tion works for the reclamation of this tract
 of land, which is located in Baca and Pow-
 ers counties, close to Rocky Ford and other
 proven districts. Water rights are of incon-
 testable priority and title to land comes
 direct from the State.

Price of Land 50 Cents Per Acre
Perpetual Water Right \$35 Per Acre

Payable \$5.25 per acre cash, balance in ten
 annual payments. The tract is nearer
 Kansas City and Mississippi Valley markets
 than any other Carey act project. Land
 free from brush and stone, and soil will
 average 50 feet in depth. Altitude, 4,650
 feet; climate best in State; rainfall 16
 inches; crops all grains, alfalfa, sugar
 beets, vegetables and fruit; no alkali. Local
 markets for everything.

No agents employed and no commissions
 paid. Farmers wanted, not speculators.
 For particulars write.
THE TWO BUTTES IRRIGATION AND
RESERVOIR CO., LAMAR, COLO.

Ross Bros., Seed House, Wichita, Kan.,
 has just issued a new seed catalog which
 will help to solve the seed corn question.
 This company has been in business for
 many years and has a fine business repu-
 tation. Besides this, they have the advan-
 tage of being able to sell Kansas grown
 seeds. Tell them you are a reader of the
 Kansas Farmer and ask for seed book free.

Fielding Seed House.

We are glad to direct Kansas Farmer
 readers to the seed advertisement of Geo.
 T. Fielding & Son, located at Manhattan,
 Kan. The Fieldings are among the best
 known and most reliable of seed men doing
 business in the west. They have been at
 their present location for a great many
 years and have thousands of satisfied cus-
 tomers scattered all over Kansas. The writ-
 ter has known them for years and is glad
 to testify to their splendid methods of
 doing business. When writing them please
 mention Kansas Farmer.

Its perennial nature and the reports of
 its wonderfully productive and nutritive
 qualities might naturally lead the farmer,
 without better acquaintance, to suppose that
 in alfalfa he has perpetual pasture, that
 he will open the gate to his live stock in
 the spring, send for the butcher or buyer
 in October, and then winter in luxurious
 leisure. But he finds that the easiest way
 is not always the most profitable way, pas-
 turing with any stock is an expensive and
 extravagant method of gathering a valu-
 able crop from high-priced land. Where
 land is cheap and pasture is wild, stock
 is not expensive help in gathering a cheap
 crop; but it is easily demonstrated that
 where land values are high and a crop
 value is in a like attitude, man with ma-
 chinery can do the harvesting more econ-
 omically than can a cow, a steer or even a
 sheep.—F. D. Coburn.

"The Management and Feeding of Cattle"
 by Prof. Thomas Shaw is the first book
 ever written which discusses the manage-
 ment and feeding of cattle from the birth
 of the calf until it has fulfilled its mission
 in life, whether on the block or at the
 stall. The book follows beef cattle during
 every phase of the finishing period,
 whether finished as baby beef, or matured
 on pasture, or in the stall, and it follows
 the animals until final disposal at the stock
 yards. It treats of every detail of the
 management and food suitable for cows,
 summer and winter, to whatever class they
 may belong, and from the time of the
 first conception until they are sent to the
 block. The book is handsomely printed on
 fine paper, from large, clear type, and is
 profusely illustrated, containing 496 pages,
 5 1/2 x 8 inches, and is attractively bound
 in cloth. Price, net \$2.00. Published by the
 Orange Judd Co., but will be furnished at
 cost by the Kansas Farmer, postpaid.

Means Much for Farmers.

Rumors of the sale of the works of the
 great David Bradley Manufacturing Com-
 pany, located in a northern suburb of Kan-
 sas, Ill., were confirmed when it was an-
 nounced on Jan. 12 by the management
 of the great implement works that the
 deal was closed whereby Sears, Roebuck
 and Co., of Chicago came into possession
 of the great manufacturing plant. Here-
 after the factory will be known as the
 David Bradley Manufacturing Works owned
 and operated by Sears, Roebuck and Co.
 as its agricultural implement department.
 The amount involved in the transaction
 is said to come close to the million dollar
 mark. The transaction does not include
 the branch houses of the Bradley Manu-
 facturing Company in which the old man-
 agement have jobbing interests, and will
 continue to be operated under the old man-
 agement as private interests.

Robinson's Tenth Annual Percheron Sale.
 Sixty head of the famous Whitewater
 Percherons will be sold in the 10th annual
 sale of J. C. Robinson, Towanda, Kan., on
 February 15. This sale will be held in the
 big, new sale pavilion on the fair grounds
 at Wichita and will begin at 12:30 p.
 m. sharp. The offering will consist of 30
 stallions and 30 mares, many of them im-
 ported. Of course the chief attraction of
 this sale will be found in the animals that
 were sired by Casino (45462), 2789, or the
 mares that are bred to him. These are
 some other mighty attractive features how-
 ever, and some that you cannot afford to
 overlook. For instance the pair of mares
 Empress 63787 and Loretta 63077 are
 worthy of special attention. Mr. Robinson
 says of them that "I believe they make the
 best pair in harness that has ever left
 the Whitewater Falls farm. I do not be-
 lieve a handsomer pair was ever put
 through an auction ring." Both are bred
 and are splendid workers. The filly Bel-
 linda 55975 is the largest yearling filley
 now on the farm and her dam topped the
 last February sale at \$935. Mr. Robinson
 has spent his life in the importing, breed-
 ing and management of Percheron horses
 and he knows them. He knows what is
 wanted in public sales and his offering at
 each of his recent sales has been of such
 quality that they have each year broken a
 record for the United States. Mention the
 Kansas Farmer and write for a catalog.

A Good Shorthorn Herd.

Today we visited the beautiful farm home
 and looked again and again at the pure
 bred cattle and hogs that belong to and
 are cared for by the Amcoats family. The
 rears were almost impassable and the sun
 only shone a part of the time but the trip
 was a pleasant one. The Amcoats' home
 is the kind that makes a fellow feel like
 moving out of town and when you see the
 Shorthorns and Poland Chinas, beautiful
 pictures and other works of art lose their
 charm. Mr. Amcoats is a young man of
 unusual ability in the line of work which
 he has chosen. He is a hustler and close
 observer and in selecting breeding stock has
 displayed an ability seldom seen even among
 older breeders. The Shorthorn herd at this
 time is composed of about 35 head of very
 excellent specimens, headed by the pure
 Scotch bull Scottish Archer, a bull of great
 merit possessing nearly all of the essential
 points for a great sire. He is a very dark
 red and is proving an excellent breeder. His
 sire was Victor Archer and his dam was
 the imported cow Naomi's Ruth 2nd by imp.
 Best of Archer. Among the great cows to
 be seen in the herd are the pure Scotch
 cow Secret of Prairie Dale with a lovely
 heifer calf at foot sired by the noted bull
 Double Champion. Orange Blossom 33d
 and Ashland Victoria both straight Scotch
 cows and good producers. Lady Catharine,
 a very large roan cow sired by Dictator
 and out of a Gallant Knight Young Mary
 cow. The remainder of the herd are nice
 individuals. Young Marys, Rose of Sharon,
 Rubys and Josephines. Mr. Amcoats has
 for sale at present 3 very choice young
 bulls all sired by Scottish Archer. One is
 out of the fine young cow Francis that
 topped Giffords 1907 sale at \$800, and one
 is cut of a Scotch topped Ruby cow. These
 bulls are from 10 to 12 months old, all reds,
 and will be priced reasonably. See adver-
 tisement in this issue and write mentioning
 Kansas Farmer.

NEBRASKA LAND

CLOSE TO FAIRBURY, NEB.

If you want to buy one of Nebraska's
 richest farms where corn, winter wheat and
 alfalfa never fails send for free price list
 and information.
NIDER & HENRICHS,
 Fairbury, Neb.

I SELL DIRT.

I have for sale one of the best improved
 ranches in Southwest Nebraska, containing
 three sets of improvements, the ranch con-
 tains 4,760 acres of fine land, 2,500 of which
 is fine alfalfa land. I have also for sale
 good farms from 160 acres up; write me.
S. Steinmann, Wauneta, Neb.

LOOK! LISTEN!

Don't wait until the last minute to order
 your Ckls. Some of my breeds are sold out
 now. I still have a good supply of S. C.
 White and Brown Leghorns, S. C. White
 Minorcas and B. P. Rocks. Get busy.
 Order now. Price \$2. Address
WALTER HOGUE,

Fairfield, Nebraska.

ALFALFA FARMS, DUNDY COUNTY.

160 acres creek bottom, running water,
 rich soil; 100 acres will grow alfalfa, 6 mi.
 to town, house, cave, ice house, barn, sheds.
 \$25.00 per acre
 160 acre valley farm, black soil, 2 mi.
 Benkelman, new house, barn, sheds, well,
 under fence, 80 acres will grow alfalfa ir-
 rigation ditch on land; \$30.00 per acre.
 320 acres, improved, divide farm, \$20.00
 per acre.

R. D. DRULINER, Benkelman, Nebraska.

IRRIGATED HOMESTEADS.

In the famous North Platte Valley, where
 Uncle Sam furnishes the water on ten years
 time without interest. Crops yield \$25 to
 \$100 per acre. Homesteads at from \$700 to
 \$2,500, according to improvements. Deeded
 land \$75 to \$100 per acre. Free rural mail
 delivery, telephones and all modern farm
 conveniences. These lands in splendid set-
 tlement of fine homes near town. For par-
 ticulars write or see

CARPENTER, PLUMMER & MURPHY,
 Morrill, Nebraska.

45 BUSHEL WHEAT LAND,
\$25 PER ACRE.

We own and control 20,000 acres of Chey-
 enne county, Nebraska's, choicest farm
 land, now on the market. The heaviest
 crop yielding county in Nebraska for ten
 years, alfalfa also a leading crop. Ask
 for folders and full particulars. Agents
 wanted everywhere. Write for our propo-
 sition at once. Railroad fares refunded if
 things not as represented.

FUNDINGSLAND & SEVERSON,
 Sidney, Nebraska.

DON'T MISS THESE LAND BARGAINS.

320 acre, choice farm, Hayes Co., Neb.,
 7 1/2 miles from Fallsdale, smooth, best of
 soil; 200 acres to wheat, 1-3 rental, good
 4-room house, well, windmill, etc. A per-
 fect beauty, in fine neighborhood. For
 quick sale, \$35 per acre. 1,200 acre ranch,
 Lincoln Co., Neb., 5 miles from Wallace,
 450 acres good bottom, alfalfa and corn
 land; balance good pasture, timber and liv-
 ing water, \$20 per acre. For other good
 land bargains see or write us. **SMITH**
BROS., Fallsdale, Neb.

CHASE COUNTY, NEBRASKA.

Farms and Ranches for Sale.
 Ranches from \$5 to \$12.50, good level
 farm land from \$15 to \$30 per acre, where
 wheat makes from 15 to 40 bushels per
 acre and corn from 20 to 50, hog cholera
 unknown. The undersigned has lived here
 2 years and can prove the above state-
 ment to be facts. We have the lands for
 sale and automobiles with which to show
 it. All inquiries answered. Mention this
 paper and call on or address

BONNER & JOHNSTON,
 Imperial, Nebraska.

282 1/2 acre farm in Franklin Co., Neb.,
 9 1/2 mi. from Bloomington, Co. seat. About
 200 acres choice bottom, alfalfa and corn
 land, 60 acres good pasture, fair improve-
 ments, fine spring, never failing water,
 from hill, 30 feet above level of house and
 barn and 45 feet above level of balance of
 farm land. One of the most ideal farms and
 best bargains to be found. Price only \$16,-
 000. Choice 1280 a. ranch, well improved.
 Several quarter sections and larger and
 smaller farms that are bargains. For in-
 formation see or write

WM. ANDERSON, Franklin, Neb.

BOX BUTTE COUNTY BARGAINS.

296 acre ranch farm, 10 mi. to sta., best
 in the west, 35,000 improvements, all good
 land. Price for quick sale, \$15 per acre.
 2,000 a., well improved, 700 a. best hay,
 8 miles to good station, all good land. Price
 \$25 per a. Will consider exchange for some
 good income property or eastern farm land.
 320 a. all level, only 5 mi. to Alliance.
 Price \$20 per acre 160 a. all level and
 good, 10 mi. to town only \$12.50 per acre.
 Other choice bargains in all sized tracts
 at \$12.50 to \$22.50 per acre.

DINEEN, RUBENDALL & YOUNG,
 Alliance, Nebraska.

PLATTE RIVER VALLEY BARGAINS.

710 acres, fine valley land, all under ir-
 rigation ditch, good 8 room house and other
 improvements, 4 mi. from R. R. station, 10
 mi. Co. seat; all fenced, choice land and of-
 fered far below actual value at \$30 per
 acre, for short time only.
 320 acre farm, 1 quarter deeded, 1 yr.
 school lease, subject to purchase, all choice
 valley land, 6 mi. from Bridgeport. Some
 alfalfa and all good alfalfa land, under ir-
 rigation. Fair improvements and fruit.
 Price \$20 per acre, cash. Other attractive
 propositions in the new Morrill county
 lands. Write for particulars or see

SCOTT & DAVIS,
 Bridgeport, Morrill Co., Neb.

TWO SPLENDID FARM BARGAINS.

400 acre farm in Red Willow county,
 Neb., 2 1/2 miles from McCook, good 8 room
 house, good barn and other good improve-
 ments; 180 acres choice valley alfalfa land,
 55 acres now growing; 100 acres bottom
 and 40 acres upland cultivated, balance
 pasture; well watered, some timber and
 abundance of choice fruit trees, bearing.
 Actual value of land over \$20,000, but be-
 longs to non-resident, who will take \$16,000
 if sold soon—only \$40 per acre. Act quick;
 don't miss this.
 560 acres 12 miles from McCook, 7 miles
 from Troyer, Kan.; 400 acres choice smooth
 farm land, balance good pasture, half cul-
 tivated, slight improvements. A splendid
 bargain at \$16 per acre.

For other snaps in farm and ranch lands
 write or see
ACKERMAN & STEPHENS,
 McCook, Nebraska.

OKLAHOMA LAND

CADDO COUNTY LANDS

At reasonable prices on good terms. Write for full information.

J. H. CORDER & SONS, Oklahoma.

WASHITA VALLEY LANDS.

From \$10 to \$50 per acre, offer great opportunities for investment. They are well located near railroads, towns, churches and schools. Write for further information.

JOSEPH F. LOCKE LAND & LOAN CO., Wynnewood, Oklahoma.

CORN AND ALFALFA LANDS.

In Canadian county, the cream of Oklahoma; a place where good crops and prosperity reign supreme. Write today for prices and information.

NEW STATE REALTY CO., Oklahoma.

BECKHAM COUNTY, OKLA.

160 acres 2 miles Doxey, railroad town, house, barn, 100 in cultivation, 700 peach and apple trees four years old, 140 tillable, \$3,000. Terms. Other farms. Will sell at extremely reasonable prices.

SECURITY INV. CO., Mangum, Oklahoma.

FINE ALFALFA FARM.

480 acres, rich, alluvial valley soil, 260 under plow, 25 alfalfa, fair improvements, living water, good well, 7 miles railroad, \$35.00 per acre. Terms. Many other snags.

W. C. ATKINSON, Gotebo, Oklahoma.

REAL ESTATE BROKERS.

Mangum, Okla. Lands that produce big crops of cotton, alfalfa, corn, wheat, and all other staples, at very reasonable prices. Write for free list of bargains.

McMILLAN & LANFORD, Mangum, Oklahoma.

BARGAIN.

160 acres valley land; 5 miles town, 120 broke, 15 alfalfa, orchard, house, stable, cribs, good well, R. F. D., 1-4 mile store and post office, fenced, cross fenced. Price \$4,800, long time, easy terms. Other bargains.

C. V. CLARK, Mountain View, Oklahoma.

ALFALFA RANCH, KIOWA COUNTY.

160 acres dark loam, valley land, sub-irrigated, 10 ft. to water, 2 miles good town; all tillable, 150 cultivation, 25 alfalfa, fenced, well, good buildings, clear. Price \$6,250.00; \$1,250.00 cash, balance easy terms. Other farms.

H. H. ANDERSON, Gotebo, Oklahoma.

IMPROVED FARMS.

180 acres, 140 in cultivation, good 9 room house, barn 45x65, tool shed and granary, 40x40, orchard, telephone, R. F. D., near school, 4 miles of county seat; price \$9,000. Write.

J. T. RAGAN, Vinita, Oklahoma.

MCLEAN COUNTY.

Timber and prairie lands, \$10 to \$50 acre, mostly on good terms. Lands have never been boomed; will undoubtedly double in value soon. For a good investment or speculation write us.

BYARS REAL ESTATE CO., Byars, Oklahoma.

ALFALFA AND CORN FARM FORCED TO SELL.

160 acres, 8 miles Elk City, 6 miles Doxey, 5 mi. Berlin, extra fine deep dark loam soil as good as in the county, 5 room house, large barn, fine bearing orchard, good fences and cross fences, living soft water, all sub-irrigated, 100 acres choice alfalfa land, adjoins the champion alfalfa field of the state. 40 acres cultivated, fine neighbor hood of northern people, fine well soft water good school and church near, greatest bargain in Okla., positively forced to sell. Price at once \$22.50 per acre, terms.

FRANK WINTERS, (owner option) Elk City, Oklahoma.

MISSOURI LAND

STOCK FARM SPECIAL.

350 acres 1/4 mile from station, 50 acres in cultivation, 310 acres pasture, 3 good springs, plenty of good timber, good house and barn, good well, R. F. D. Telephone. A fine stock farm. Price \$20.00 per acre, half cash, balance to suit purchaser. Call or write.

AURORA REALTY & INVESTMENT CO., Aurora, Missouri.

100 ACRES

3 miles from Carthage, 2 1/2 miles from Reads, 1/2 mile to school, R. F. D. on gravel road, orchard and well of fine water, all in cultivation, fair improvements. Price \$55 per acre. For particulars write.

A. C. STEMMONS, Canthage, Mo.

MISSOURI FARMS.

Come to Missouri, where the bluegrass, white clover, red clover, and timothy grow in abundance. I have a few good farms for sale in Cass county only a few miles from Harrisonville, the county seat, one of the best towns in the state of two thousand population.

CLARENCE F. GILBERT, Harrisonville, Cass Co., Mo.

TEXAS LAND

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

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

NEAR OKLAHOMA.

Seven sections Wheeler county, Texas—practically all tillable, raises big crops, corn, wheat, kafir, milo maize, broom corn, melons and all staples. Good crops here last year. Goes in section lots; extremely reasonable prices.

CAINE & BINKLEY, Cotton Dealers and Owners, Oklahoma City, Oklahoma.

Virginia Farms and Homes

Free Catalogue of Splendid Bargains. R. B. Chaffin & Co., Inc., Richmond, Va.

Chas. E. Sutton, of Sutton Farms, Lawrence, Kan., says: "The Berkshire business here in Kansas never was more prosperous. Our Berkshire sales in December amounted to \$192,500, and every man is bringing inquiries from all parts of the world. The demand for pigs by Berryton Duke Jr., will soon be ahead of our ability to supply. Every customer seems to think that we must have sent him the very best pig that old Duke ever sired, and we feel safe in saying that no boar living or dead ever sired a more uniformly high class lot of pigs than Berryton Duke Jr."

Petty Bros' Big Jack Sale.

On Thursday, Mar. 3, Petty Bros., of Sedalia, Mo., will hold a sale of jacks and jennets at their Fairview Stock Farm. Twenty-five of these are Mammoth jacks and 15 Mammoth jennets. Of the jacks 12 head are 15 1/2 hands high or over, and all of them are over 1 1/4 hands high. In the bunch is Tennessee King, grand champion of the world. There are also some 1200 pound jacks. This sale will be the day following the L. M. Monsees & Sons' sale at Smithton and both sales can be attended by buyers without material additional expense. The catalog for Petty Bros. sale is ready and you are urged to ask for it and mention the Kansas Farmer. You are sure to be pleased with what they have to offer.

The Berkey Poland China Sale.

I. R. Berkey of Louisburg, Kan., announces that some of the features of his sale of Poland Chinas to be held on March 4 are worthy of attention. There will be 6 tried sows and 39 gilts. Twenty-nine of the gilts are by Panio 51330, 3 by Royal Tourist, 5 by Donald Perfection 45544, 4 by Imperial Sunshine, and 2 by Claco Imperial. The tried sows are bred for March farrow to Donald Perfection and Panio. The gilts are bred for March, April and May farrow to Perfection Lad, the best pig ever bred by Mr. Berkey. He was sired by Donald Perfection and out of Truant Girl sired by Truant Boy. There are gilts in this sale that Mr. Berkey would keep in his own herd but in order to afford some special attractions and insure a good sale, he has decided to catalog them. Mr. Berkey thinks these gilts are good enough for any herd.

Gifford's Twenty-Sixth Shorthorn Sale.

On Wednesday, Feb. 16, F. M. Gifford, of Wakefield, Kan., will hold his 26th annual Shorthorn sale at Clay Center, Kan., at which time he will practically close out one of the oldest and best known herds of this breed in Kansas. The offering will include 40 head, of which 10 are bulls, ranging from 14 to 20 months of age. These were sired by Lord Marr, a pure Scotch bull, and their dams are all Scotch topped cows. There will be 20 cows in the sale and 10 of them will have big, strong calves at foot by Lord Marr, while others were sired by him. Nine of these cows were sired by Mr. Gifford's former herd bull, Red Knight, who did so much for his herd and for the breed in the west. There will be 10 heifers by Senator Bruce, who was the herd bull following Red Knight and preceding Lord Marr. As this is really a dispersion sale the opportunity to secure bargains will undoubtedly be a good one.

The Robison Percheron Sale.

Do not forget that the tenth annual sale of Whitewater Falls Percherons will be held in the big sale pavilion on the Wichita Fair Grounds on Tuesday, Feb. 15. These sales have attained a national reputation for quality and this one is likely to exceed all past records because of the fact that a number of the mares to be offered are bred to Casino, the World's Fair reserve champion, and also because of the superior quality of the entire offering. If you have not already done so, write to J. C. Robison, Towanda, Kan., for a copy of his sale catalog and you will have an opportunity to study the pedigree of each animal before attending the sale. Mention Kansas Farmer when you write and be sure to take your catalog with you. You will be comfortable at the sale as the pavilion is built of concrete and provided with good seats. Only next Tuesday when Kansas' greatest sale of Percheron horses will take place.

The Maasdam & Wheeler Percherons.

We take special pleasure in calling attention to the advertising card of Maasdam & Wheeler, Fairfield, Ia., in this issue of the Kansas Farmer. This firm of importers and breeders of Percheron horses have made a great reputation in the west and they have had the satisfaction of selling thirteen of their horses to a Kansas buyer in one sale. They do not employ salesmen and do not sell their stock at public auction. All of their stock is disposed of at private treaty at their own barns. They have now on hand imported stallions from 2 to 5 years old and home bred stallions and mares from weanlings up to 5 years old. These home bred animals are from imported stock on both sides. The animals in this stud are selected for size, style, bone and action, and the owners are willing to show along side of any other importing or breeding firm in the country. Mention the Kansas Farmer and drop them a line of inquiry about these horses, as they are good ones and sure to please you.

The Cooke and McCleary Closing Out Sale of Shorthorns.

On Tuesday, Feb. 22, F. P. Cooke, owner of the Elmvale Stock Farm, and C. S. McCleary will hold a joint closing out sale of their herds of Shorthorns at Beloit, Kan. Attention is called to the herd bull Highland Laddie 243179, purchased by Mr. Cooke at a long price to mate with his heifers by Select Goods. Select Goods is a son of Choice Goods. Highland Laddie was bred by that veteran breeder, Wm. Wales of Osborne, Kan., and is a son of Brave Knight 3d by Gallant Knight. His dam was by imported Lord Haddo. He is a show bull, having won first in class and sweepstakes in the Mitchell County Fair of 1907 and won again in 1909. The cows in the sale are a useful lot that were sired by Gallant Knight, Select Goods, Rose Duke, Gray Lock and Scotchman. They will be sold in good breeding condition. Twelve of the heifers were by Select Goods, three of them being members of the first prize young herd at the Mitchell County Fair last fall, and one of them the first prize heifer calf at the same fair. Included in the offering are a number of very free milking cows that come of milking strains. Mention Kansas Farmer and write to either consignee for a catalog and be on hand ready for the sale.

BARGAINS.

Chicken and garden farm, 2 1/2 acres, new five room house, new barns and yards, close in Enid property; \$3,000, easy terms.

Large seven room house, new, modern, close to school, best residence part of Enid, Okla., \$3,900, terms.

TEXAS & OKLAHOMA LAND CO., Enid, Okla.

OKLAHOMA LAND

A BARE SNAP.

160 acres adjoining town, all in cultivation, good house, barn, granary, good orchard of all kinds of fruit, fenced and cross fenced. This is one of our best bargains. And if you are interested do not delay. (First come, first served.)

HUNTER REALTY COMPANY, (Est. 1898).

Enid, Okla.

"WE SELL THE EARTH."

Farmers grow wealthy in a short time in Custer and adjoining counties in Oklahoma, growing hogs, corn and alfalfa. Farms at from \$30 to \$50 per a. Write us for land list.

Clinton,

DULANY & RANDOL,

Oklahoma.

CORRESPOND with us about Garfield Co., lands. McCarty & Plumley, Enid, Okla.

WRITE FOR FREE LIST of Caddo County farms and descriptive literature. Many big bargains. E. C. SCHLITZ, Anadarko, Okla.

FREE INFORMATION about Oklahoma. Homer B. Wilson. Here since 1893. Enid, Okla.

CADDO COUNTY, best in Oklahoma. List and descriptive literature free. G. D. Driskell, The Land Man, Anadarko, Okla.

FOR FREE INFORMATION about Lawton and Comanche county lands, \$30 to \$75 per acre, write to or call on BROWN & POWERS, Lawton, Okla.

CADDO CO. FARMS. Best in Oklahoma for homes or investment. Your address on postal card will bring descriptive list and literature.

BALDWIN & GIBBS CO., Anadarko, Okla.

OKLAHOMA FARMS. Best county for corn, wheat, oats, alfalfa and tame grass. 80 acres \$3,500. 160 acres fair improvements, \$4,000. Write for list of bargains.

VOGUE & WOOD, Newkirk, Okla.

A CUSTER COUNTY BARGAIN.

160 acres, 2 miles R. R. station, 80 in cultivation, 65 fenced in pasture; fine water, four-room house. Price \$3,800; easy terms. Many other bargains. New list free.

HUGHES & SORTER, Custer City, Oklahoma.

SNAP.

160 acres, 10 miles Okeene, 20 alfalfa, 50 wheat, 40 corn land, 50 pasture, house, barn, wells, smoke house. Farm implements, young mare, buggy, etc., go with farm. \$2,500 for 60 days. List free.

RUSSON & PROFFITT, O'Keene, Okla.

WANTED.

Party who can handle 700 acres of fine farming land for 3 yrs.; will sell one-half interest in land on terms or rent for one-third. 100 acres in alfalfa; wanted in 200 acres or more.

FIRST LOAN & MORTGAGE CO., Watonga, Okla.

WHEAT, OATS, ALFALFA, COTTON.

Good lands \$30 to \$60; produce big interest on capital invested. Well located near thriving and growing city. Prices and descriptions free. Correspondence answered in either German or English.

LONE WOLF REAL ESTATE & INVESTMENT CO., Lone Wolf, Okla.

TWO EXCEPTIONAL BARGAINS.

560 acres fine second bottom, above overflow, 3 mi. Wagoner, 175 acres cultivation, 25 acres good timber, balance good grass, all tillable and smooth, at \$35.00 per acre. Adjoins land sold at \$42.50.

160, 3 1/2 S. W. Wagoner, good new 5-room house, fair barn, nice young orchard, 80 acres cultivation, balance good hay meadow at \$35 per acre. Write for information.

W. H. LAWRENCE, The Land Man, Wagoner, Okla.

KIOWA COUNTY, OKLAHOMA

where corn, cotton, alfalfa, wheat and all other staples grow to perfection. Lands at reasonable prices, on liberal terms. Write for descriptions and full information.

"MESMER" LOAN & REALTY CO., Lone Wolf, Okla.

CORN, OATS, WHEAT.

And alfalfa and all staple crops grow to perfection here in the garden of Oklahoma. Prices reasonable. Write for list and descriptive literature.

C. E. FOCHEL, Newkirk, Okla.

OUSTER, KIOWA, WASHITA

and other western Oklahoma counties. Lands, from 40 to 640 acre tracts, at low prices, on liberal terms. Write for new list, sent free.

CUSTER INVESTMENT CO., Clinton, Okla.

EASTERN OKLAHOMA.

Improved farm, 160 acres, good new house. Half section of unimproved land. Very fine. Several other good bargains. Write me if you want to know about Eastern Oklahoma. T. C. BOWLING, Owner, Fryer Creek, Okla.

BLAINE COUNTY, OKLAHOMA.

320 acres, level, all tillable, all alfalfa land, house, barn, granary, orchard, fenced, 5 miles, 3 railroad towns, 1-3 200 acres growing wheat goes \$12,800. Easy terms. Own other farms.

ED. BAKER, Owner, Watonga, Okla.

CADDO COUNTY, OKLAHOMA

Corn, wheat, cotton and alfalfa lands, \$20.00 to \$75.00 per acre, according to improvements and distance from town. Lands are advancing rapidly. Now is the time to buy. Write for full information.

J. BLIZZ JOHNSTON, Hinton, Okla.

LANDS GO OFF MARKET.

If you contemplate a trip to Oklahoma this season remember that the bargains go off the market when farming begins. And farming begins earlier in Oklahoma than in Kansas and Nebraska. Many of my listings will expire March 1st.

HENRY A. WHITE, Hinton, Oklahoma.

CORN, WHEAT AND ALFALFA LAND

in the great new state of Oklahoma. In Omeron Valley, where all kinds of crops do well; fine stock country, where the hog and alfalfa grow to perfection; land is yet cheap, but advancing very fast. For full description write.

J. M. CASPARI, Okeene, Okla.

NORTHERN OKLAHOMA

Write to the undersigned for new state map and descriptive circular and price list. Improved farms from \$35.00 to \$50.00 per acre.

J. H. FUSS & CO., Medford, Okla.

OKLAHOMA LAND

IF YOU have money to loan on good farm and city security, write John Hankins, Chickasha, Okla.

FREE—Interesting folder describing Alfalfa County, best in Oklahoma. C. Bradley Sens & Co., Cherokee, Okla.

Alfalfa County Farms for sale at less than their actual producing value. Write Hood & McFadden, Cherokee, Okla.

Major County, Corn, Wheat and Alfalfa lands. Lowest prices. Best terms. Information free. J. Nile Godfrey, Fairview, Okla.

MAJOR COUNTY, OKLA. 1600 acre farm, \$1150, 320 acres improved farm, \$6500. Write for list. Send 25 cents for map of Oklahoma, Texas and sectional map of Major County.

WILL J. GRAVES, Fairview, Okla.

MAJOR COUNTY, OKLAHOMA.

Corn, alfalfa, wheat and broom-corn lands at \$15.00 an acre and up. Great investment opportunities. Great chance for the homeseeker. Write for prices, descriptions and full information.

S. E. COLBY, Fairview, Okla.

ALFALFA FARMS

By the famous Washita Valley. We can sell you as good land as there is in the United States at from \$40 to \$75 per acre. Corn, and judge for yourself. You will be convinced when you see our beautiful valley.

THOMPSON & MCCONAHEY, Pauls Valley, Okla.

FOR FREE INFORMATION about Beckham county, Okla., land at \$3.00 to \$4.00 a quarter, write to or call on E. A. HOLMES, Real Estate, Erick, Okla.

WASHITA VALLEY LANDS.

Good corn and alfalfa farm four miles Pauls Valley, one mile State Industrial School. 170 acres, 160 under cultivation. 150 acres Washita Valley. 6 room house. Above overflow. Electric line soon. Price \$10,000.

O. W. JONES, Pauls Valley, Oklahoma.

GOOD FARM.

160 acres, 6 miles Tecumseh, 80 in cultivation, good buildings, 6 acre orchard, in fine good bearing condition, marketed 1,000 bushels in 1909. Price \$2,500; easy terms. Other farms. For sale on small payments and long time.

E. J. DICKERSON, Tecumseh, Oklahoma.

OKLAHOMA LAND.

Where corn, wheat, alfalfa and cotton are making the farmers rich. We specialize on Oklahoma, Cleveland, Logan and Washita counties. Fine alfalfa lands, \$30 and upward. Write for list and printed matter, mailed free. We also lead all in Oklahoma City property.

FARM & HOME INV. CO., Culbertson Bldg., Oklahoma City, Okla.

560 ACRES of bottom land.

6 miles from Cold Springs and 10 miles from Roosevelt, both railroad towns in Kiowa, Okla. 160 acre sin alfalfa, all under fence, most of it hog fence, good improvements, living water, very best of corn and alfalfa land. Price \$32,500. Write for free list of lands in Oklahoma.

JENKINS & MAJOR REAL ESTATE CO., Chickasha, Oklahoma.

OKLAHOMA FOR HEALTH AND WEALTH.

320 acres, 7 miles from Texola, Okla., R. F. D., school 1-4 mile. 200 acres lies nearly level and all tillable. 140 acres under cultivation, 150 acres fine pasture land, supplied with plenty of living water and good grass. Has small house, sheds and out-buildings. Well and windmill. If you want a farm where you can raise good crops and keep a bunch of stock, you should see this one. A farm and ranch combined. \$2,500 on liberal terms. Send for our catalog.

Texas-Oklahoma Realty Co., Texola, Okla.

GRANT CO., OKLA., SNAPS.

320 a. farm, 7 miles of county seat, 3 1/4 miles of R. R. town, 1 1/4 mile to school. 160 a. deeded, 160 a. school land, 1-3 of 200 a. wheat, 4 miles of fence, 4 wires, 12 a. alfalfa, large orchard of all kinds of fruit, 8 room house, summer kitchen of two rooms, 2 barns, 40x56 and 40x44 large granary, 2 wells and mills, 2 hen houses, 10x28, black smith shop 45 a. pasture, 26 1/2 a. in cultivation good soil, telephone and mail route. Price \$3,500 for 30 days.

BATTEN REALTY CO., Medford, Oklahoma.

Alfalfa, Corn, Wheat

And broom-corn are making our farmers rich. Lands can still be bought for \$20.00 to \$35.00 per acre; worth double the money. Write for prices and descriptions, stating what you want.

GRANT INVESTMENT CO., Thomas, Okla.

"Hough Sells the Earth."

In Caddo County, fertile, rich, cheap. Send 10 cents stamps for handsome colored county map of Oklahoma circulars and list. Letters answered in German or English.

W. R. HOUGH, Apache, Okla.

Fine Second Bottom Farm

360 acres fine second bottom, practically all in cultivation; 8 miles from railroad town; three sets of buildings; telephone, rural mail; school in one corner; this land will raise 75 bushels of corn, or a bale of cotton to the acre. Price \$55 per acre, terms on part.

R. B. BEARD, First State Bank, Muskogee, Okla.

KANSAS LAND

FREE—List of McPherson and Saline Co. corn, wheat, alfalfa and stock ranches. Write today. Andrew Monson, Real Estate, Lindsborg, Kan.

INFORMATION FREE about Allen County, located in Eastern Kansas gas belt, 100 miles Kansas City. Good proposition for live agents. **HAMILTON BROS.**, Iola, Kan.

CHOICE KANSAS FARMS in Smoky Valley, Saline and McPherson counties, where you can raise alfalfa, corn and wheat with profit. Write for information and list. **David Buchanan**, Lindsborg, Kan.

150 ACRE FARM. 80 alfalfa, 3 1/2 miles county seat, alfalfa mill, will net \$30.00 acre profit yearly, mile station, splendid improvements, new house, outbuildings, etc., \$100 per acre. Good terms. **JOHNSTON BROS.**, Cottonwood Falls, Kansas.

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

WANTED—TO RENT.

A good farm on shares, with everything furnished, or hire to manage a large farm in Kansas, Oklahoma, Texas or Nebraska, where corn, oats, wheat and alfalfa will grow, with view of buying a farm later. Can furnish working help and am a practical farmer and feeder, also an expert judge of all kinds of live stock. Best of bank references.

THEO. VOGELSBURG, Box 29, Loveland, Warren Co., Ohio.

BARGAINS.

Farms, ranches, hotels, livery barns and other properties for sale direct. Manhattan hotel and furnishings, Iola, Kansas, 3 story pressed brick, opposite new \$72,000 postoffice, cheap for cash; livery barn, best location in town of 1,000, \$1,500; 57 acres blue grass pasture, adjoining same town, \$5,000; 520 acre ranch Barber county, fenced, house, 50 cultivated, more can be, plenty water and timber, \$5,000; 1,520 acre ranch, with 900 acres leased land, all fenced 6-room house plenty timber, abundance of water, on main traveled road, price \$15,200; terms, if needed, 1-3 or 1-2 cash, balance to suit at low rate of interest.

P. H. FOLEY, Owner, Thayer, Kan., or Manhattan Hotel, Iola, Kansas.

Bargain of Your Life

240 acres 2 1/2 miles from Palmer School, at northwest corner of land, 110 acres in cultivation, 50 acres bottom land, 70 pasture, fenced; 10 acres bottom hay land. Price \$45.00 per acre.

L. P. WILSON, Kansas.



A FINE HALF-SECTION FOR SALE.

Two and one-half miles from South Haven in high state of cultivation, good house of 6 rooms, nearly new, barn for 10 head of horses, big granary at end, implement shed, cow stable, hog shed large corn crib two wells one in pasture with new mill, most of place fenced and cross fenced with woven wire and hedgeposts, 30 acres of alfalfa hog light, 100 acres of meadow and pasture, 60 acres of English blue grass, the seed of which made \$18 per acre last year besides pasture; balance of place in cultivation, which is as free from burrs and other weeds as a garden. There is not a more perfect laying half-section in the state, just enough slope to drain fine and not wash, not a ditch or basin on the entire place. In fact, the entire place could be plowed in one land if desired. Soil a rich, black, sandy loam. School thirty rods from improvements. Taking everything in consideration, this place is a bargain at \$55 per acre. \$8,000 can remain on place 5 years at 6 per cent. Just the place for someone wanting a high class half-section without fault. A fine proposition for either a home or an investment. For sale by

WM HEMBROW, Kansas.

EXCHANGE COLUMN

BARGAINS FOR CASH OR TRADE

Of all kinds direct from owners of farms, ranches, mds., hardware, hotels, livery barns. Send for our book of trades or cash list.

Berale Real Estate Agency, Eldorado, Kan.

BARGAINS.

We have some good Emporia properties, automobiles and hardware stock to trade for good land in Ford or Meade counties. Write us full description of your property in first letter.

H. L. DWELLE & CO., Emporia, Kansas.

200 ACRES, 3 1/2 miles town, Jefferson county, Kansas, 140 in cultivation, 40 meadow, some timber, fair improvements, good orchard, price \$12,000; incumbrance \$6,000 at 6 per cent. Want western land or town property. **Garrison & Studebaker**, McPherson, Kan.

FOR EXCHANGE

320 a. in Anderson Co., Kan., 5 mi. from R. R. town, improved; good farm, price \$45 per acre, mort. \$4,750. Wants merchandise or small farm for equity. Write for list of bargains of sales and exchanges.

SCOTT BROS., Garnett, Kansas.

Cheap and Quick Way to Sell Hogs.

Leavenworth, Kan., Jan. 29, 1910. My little ads in Kansas Farmer sold all my white boars and brought me orders for four more than I could supply. I know now where to sell my stuff when I have anything for sale.—**Arthur Mosse**, R. F. D. No. 5.

In my eleven years experience with the breed, I have never seen the breeders' prospects brighter. The farmer has begun to be dissatisfied unless he has the best of everything, and that is where the Berkshire shines and fills the bill. This is a year of poor corn crops generally, but the farmers are figuring that it takes no more to feed a good hog than it does a scrub, and when he says a good hog he means a Berkshire and that is why he buys them.—**C. G. Nash**, Eskridge, Kan.

Real Estate Men!

The other day an Ohio man wrote us, wanting to buy a Kansas farm. He said he read all the land ads in Kansas Farmer, and still wanted something else—a big, well improved stock farm with plenty of alfalfa on it. Somebody with a small ad can make this deal. Will it be you? You can put your farm bargains before 55,000 real farmers for only 3 cents a word on Kansas Farmer classified page.

Fitch's Bred Sow Sale.

In this issue W. T. Fitch, of Minneapolis, Kan., is advertising his regular annual Duroc Jersey sow sale. In this sale Mr. Fitch is selling 13 tried sows that are just in their prime as breeders and producers. They are all safe in pig to Fitch's Kant, who is one of the really great sires of north central Kansas. His sire was Kant Be Beat and his dam the great Vale's Special. Arthur Vale, of Hume, Mo., bought this sow in a famous Nebraska bred sow sale for \$825. She was sired by Ohio Chief and her dam was the great Village Pride whose sire was Improver 2nd and Farmer. It was her dam Fitch's Kant is a litter brother to All Star, the boar Mr. Vale reserved from this litter for his own use. Fitch's Kant has developed far beyond the expectations of the writer and is one of the great boars of the breed. He will be offered for sale on sale day. The breeding of the offering is good all the way through, and individually it is good. The sale will be held at the farm, which is near town. Look up his advertisement on another page. Bids may be sent to J. W. Johnson of Kansas Farmer who will be in attendance.

Monsees' Blue Ribbon Sale.

The great Missouri nule is known throughout the world. His quality has been made possible by the efforts of such men as Louis M. Monsees of the Limestone Valley Farm, Smithton, Mo. On Tuesday and Wednesday, March 1 and 2, Mr. Monsees will hold his 33d annual public sale of registered jacks, jennets and saddle horses. He calls this his blue ribbon sale and announces that he will sell 116 head. The catalog of these animals is good reading matter, especially the letter of welcome with which it is introduced. Mr. Monsees began holding these annual sales in 1881 and his first sale brought him \$8,490. At this time he had been breeding jacks for eleven years. Every year since his initial sale has shown a growth and the total value of his animals sold in the 1909 sale was \$56,850. For several years Mr. Monsees has succeeded in breaking his own and all other records in the prices received for his jacks, and the announcement is now made that this blue ribbon sale will be the greatest in quality as well as in number of any that he has yet held. The Limestone Valley jacks and jennets have been conspicuous prize winners but nowhere did they stand higher or win more than at the Universal Exposition at St. Louis. In addition to a large number of class prizes, Mr. Monsees won at St. Louis four championships and two premier championships for breeders. Readers of Kansas Farmer are urged to write at once for a copy of the catalog of this great sale. There is money in jacks and a purchase at the Limestone Valley farm goes a long way toward establishing a reputation for a new stud.

Program.

The annual session of the Berryton Farmers' Institute will be held at Berryton hall, Thursday and Friday, Feb. 17 and 18, 1910.

TUESDAY MORNING SESSION.

10:30 A. M.
Music and Invocation. W. H. Coultis.
Welcome Address. W. H. Coultis.
Response. Judge B. R. Simons.
Object and Results of Farmers' Institutes.
J. S. Longshore.

THURSDAY AFTERNOON SESSION.

1:30 P. M.
The Work of the State Board of Health.
Dr. Crumblin.
Winter Production of Eggs. Reese V. Hicks.
Modern Conveniences on the Farm and in the House. Water Works. Mr. Chas. Oneal.
Heating. Mr. C. A. Thresher; Cold Storage. Mrs. Taylor.

THURSDAY EVENING SESSION.

7:30 P. M.
Does It Pay to Keep Blooded Stock on the Farm? Mr. W. E. Dustin.
Social Life for the Rural People. Mrs. W. T. Hotchkiss.

Humboldt and Swindles. Mr. Chas. Oneal.

FRIDAY MORNING SESSION.

10:30 A. M.
Some Points in the Cheaper Production of Pork. Mr. J. E. Yingling.
Kansas Wild Flowers. Miss Lucy Poponoe.

FRIDAY AFTERNOON SESSION.

1:30 P. M.
Public Utilities. Gov. W. R. Stubbs.
Burbank and His Work. Mrs. Ward Page.
Kansas Birds. Miss Edna Heywood.

FRIDAY EVENING—GOOD ROADS SESSION.

7:30 P. M.
Requirements of the Post Office Department. Mr. C. A. Mills.
Plans for Road Work. Mr. V. R. Parkhurst.
County Engineer.
My Idea of Good Roads. Mr. J. R. Edgar.
The Farmer and the "Automobile Man." Mr. Geo. Starnfield.

Music by Berryton Orchestra and others.
Readings by Misses Pearl Hoffman, Clara Butterfield, Lillian Stone, Messrs. Lew and Jim Caulk and others.
Reception Committee: L. Mabel Waters, Mrs. J. J. Messenger, W. H. Coultis.
Dr. N. J. Taylor, president; Mrs. J. E. Yingling, vice president; L. Mabel Waters, secretary and treasurer.

In another column will be found an advertisement of Renken's Sure Catch Gopher Trap. This trap is manufactured by A. F. Renken, Kramer, Neb., and seems to be well adapted to the purpose for which it is made. As gophers are especially destruc-

KANSAS LAND

KANSAS LAND

W. C. ALFORD

Hazelton, THE PIONEER REAL-ESTATE AGENT

Kansas.

Every intelligent, enterprising, wide-awake man no doubt hopes at some time to be able to say he has a home that he can call his own; and every one wants to get that home where he can get the best for his money; and if he is well informed as to what it takes to constitute a real home, he is going to look for a rich and productive locality—a locality that has good society, good surroundings of every kind. Now in giving you a brief outline of what I have for sale, I want to say that we have as rich and productive a soil as can be found anywhere and an excellent climate. Our society is as good as can be found anywhere on earth, our people are a live- wide-awake, up-to-date class of people.

We have churches, secret societies, a fine library, an excellent graded school, and, in fact, we are right up among the kind of people that make up the larger towns and cities. No better farming community can be found; our farmers are doing well, and nearly every one has a bank balance to their credit. Our farm lands are still cheap when one knows the productiveness of our soil, and there is still a chance for one to make good money even in buying as a speculation. And for one to buy for a home, there is no other place to our knowledge where one can get as good land for the money, and have so many of the other advantages with which we are surrounded. We have spent a good many years in Kansas and feel that we are qualified to speak of what it is; and if you have interest enough regarding this and my price list, to write me for any information you may want regarding the country, or any particular number on my list, I will give you as full and complete an answer as I possibly can. I want you to know the facts and am willing to give them, and stand or fall by the results.

FARM LANDS FOR SALE.

320 a., 1 mile Kiowa	\$11,200	Improved 240, 2 1-3 miles Hazel-	18,000
Improved 320, 4 miles Hazelton..	20,000	ton	13,000
Improved 160, 3 miles Hazelton..	9,000	Improved 240, 4 miles Hazelton..	18,000
160 acres, 2 miles Hazelton.....	10,000	Improved 320, 1 mile R. R.	16,000
160, 2 1/2 miles Hazelton.....	5,000	160 acres, 3 miles R. R.	6,000
Improved 160, 3 miles Hazelton..	7,500	Improved 1440, 4 miles R. R.	32,000
Improved 160, 4 miles Hazelton..	8,000	80 a., 3 miles R. R.	1,800
Improved 160, 1 1/2 miles Hazelton..	9,500	80 a., 3 miles R. R.	4,800
160, 12 miles town	2,500	160 acres, 3 miles R. R.	3,200
Improved 160, 3 1/2 miles Hazelton..	7,000	Improved 160, miles R. R.	3,600
320 acres, 1 mile R. R.	6,400	Improved 160, 4 miles Hazelton..	6,500
Improved 240, 5 miles R. R.	9,000	Improved 160, 2 miles R. R.	16,000
		Improved 4,100, 3 miles R. R.	125,000

SNAPS IN CENTRAL KANSAS LANDS

320 acres, 270 acres bottom land, 50 acres upland, fair improvements; 200 acres alfalfa land, running water and timber, fenced and cross fenced. A snap at \$40 an acre. Three miles from town.

160 acres, unimproved, 3 1/2 miles from town, 90 acres in cultivation, balance rolling. A bargain at \$2,750. Write

JAS. H. LITTLE, the Rush County Land Man, Kansas.

MARION, MORRIS AND DICKINSON

County, Kansas, lands. Bargains in improved farms at prices ranging from \$45 to \$80 per acre. Write for big list.

T. C. Cook, Lost Springs, Kan.

NO. 37. 160 ACRES.

6 miles R. R. town, 75 in cultivation, 3 orchard, all kinds fruit; 5 room house, barn for 8 head of horses, corn crib, hen house, granary, cow sheds, good water R. F. D. telephone, \$35 acre. List free. **A. J. CLOTZ & CO.**, Cottonwood Falls, Kan.

80 ACRES.

4 miles county seat, all first class bottom land, 52 acres alfalfa, balance ready to plant, good improvements, near school and church, daily mail and telephone. Price \$3,000. Liberal terms. Other farms. **J. E. BOGROCK**, Cottonwood Falls, Kan.

HUTCHINSON, KANSAS.

160 acres black splendid corn land, 120 under plow, 40 pasture, fine maple grove, orchard, extra good improvements, all bottom land, 3 miles town, Reno Co. A beautiful farm for \$12,000; terms. Get full description. **Smith & Glenn**, Over McBurney's.

WHEAT, CORN, ALFALFA AND OATS.

Produce mammoth crops in Barber Co., Kan., adjoining the famous alfalfa county, Oklahoma. I have many good farms and ranches for sale at less than their actual value. Write for full information.

J. M. MILLER, Kiowa, Kan.

MARION COUNTY RANCH.

1,800 acres 4 miles railroad town, 600 corn and alfalfa, bottom land, balance fine pasture, splendid modern improvements, watered. Unquestionably a bargain at \$75,000. Liberal terms. Other bargains.

TULKERSON & BURCHFIELD,

Florence, Kansas.

GOOD RANCH.

8963 acre ranch improved, \$5.00 acre. Robertson Co., 7 miles county seat. Adjoining land couldn't be had for twice our price. Would sell part or all. All fine grass and much first class farm land. Detailed description and plat free.

C. A. BABCOCK, Kansas.

BARGAINS.

40 a. 4 blocks street cars Well improved, new bldgs., fruit and shade. Free gas, fine land; it a peach, \$4,000.

90 a. fine land all in corn last year, no bldg., adjoining town. A snap at \$50; ask me about this

La Harpe, Lock Box 241, Kansas.

Sumner Co. Kansas Land for Sale

Wheat, oats, corn, alfalfa and hogs. All kinds of fruit and berries do fine. Abundance of water. Fine climate. Prices \$30 and up. Write us, information free. Co-burn's report for 1909 gives Sumner Co. over 4 millions bushels.

H. H. Stewart & Sons, Wellington, Kan.

RENO COUNTY FARM

160 a. 4 1/2 mi. from Langdon, good bldgs., 120 a. cult. 40 a. pasture, best soil. Price \$8,800; terms

80 a. 4 mi. from Hutchinson, 80 a. cult., no bldg., black sandy loam soil. Snap at \$6,000. Terms. Other farms.

CHAS. N. PAYNE, Hutchinson, Kansas.

EUREKA

160 acres 4 1/2 miles of Spearville, 5 room house, barn, cow stable, sheds, orchard, well, windmill, tank etc.; 100 a. in cult., 60 a. pasture, rich soil, good school, 1/2 mile, price \$4500.00; terms. Address

STINSON & WEYAND, Spearville, Kansas.

WRITE FOR FREE LIST

Coffey county farms. Cheapest land in Kansas for the money. **W. H. Clark**, Gridley, Kansas.

EASTERN KANSAS LAND

Where corn, wheat, clover and timothy grow to perfection, \$40.00 to \$60.00 acre. This section has never been boomed and has been overlooked. Best "buys" in Kansas. List and descriptive literature free.

F. C. BRACKNEY, Burlingame, 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 us for a proposition on our own ranches.

Fritzell & Ely, Larned, Kan.

RENO COUNTY FARM—320 acres, highly improved, fine new house with gas and water in sandy loam soil, best kind corn and wheat land; price \$14,000. Other bargains.

W. W. BARRETT, Kansas.

COFFEY COUNTY LANDS.

If you want one of our corn, wheat, alfalfa, clover or timothy farms at the lowest prices on the best terms, write for list of bargains and colored Kansas map. Mailed free.

LANE & KENT, Burlington, Kan.

SHARON VALLEY ALFALFA LANDS.

Choice corn and alfalfa farms for sale in Barbour county, Kansas. Crop failure unknown. Write for particulars and list. Address

WILLIAM PALMER, Kansas.

GREENWOOD COUNTY STOCK FARM. Nicely improved 480 acres, 180 under plow, 225 slightly rolling pasture, balance nice level meadow. Price \$15,000. Will carry \$8,000 at 6 per cent. Send for free list and descriptive literature.

STAR REAL ESTATE AGENCY, Kansas.

Gridley, Kansas.

BARGAIN.

Hotel, 12 rooms, well located in Winfield, 10,000 population, 2 story brick building, \$2,500 and will furnish a year's lease on it for \$25.00 a month. 80 acres improved, 3 1/2 miles Winfield, \$4,500. New list free.

WOOD & SMITH, Winfield, Kan.

HERE IS A SNAP!

160 a., 1 1/2 miles from Whitewater, all well improved. All level land, good soil. Price for a short time only \$80; worth \$100 an acre. Other bargains. Free list. Address

WHITWATER LAND & LOAN CO., Kansas.

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

Summerville Realty Co., Summerville, Kan.

A DANDY FARM—POSSESSION AT ONCE.

Just listed one of the finest farms in Kansas, 160 richest roll, all tillable, lays fine, 40 bluegrass and clover pasture, 40 timothy meadow, 55 fine wheat, 40 plowed for spring crops, fine 6 room house, big new barn, cattle shed, hog house, orchard, well and windmill. A bargain at \$55. Write for full description or come.

Donahue & Wallingford, Mound Valley, Kan.

YOU COULDN'T STEAL THIS.

But you can buy it cheaper than you could steal it. 1,438 acres in one tract, finest of Kansas land, suitable for a big farm ranch. Fine buildings and lots of them, plenty of it in cultivation. It is priced \$10 too cheaply. Price \$27.50 an acre.

577 acres near Arkansas City, well improved, a hummer at the price, lots of alfalfa and the best corn land on earth. Write for our lists.

HOWARD, The Land Man, Kansas.

Room 15, Turner Bldg., Wichita, Kan.

JACKS AND JENNETS

Stocks for sale at all times. Write us what you want.
YATES BROS., Faucett, Mo.

STALLIONS AND JACKS

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

PERCHERONS, SHIRES SADDLERS AND JACKS

23 registered jacks and jennets, 12 registered Percheron stallions and mares, 1 Imp. Shire stallion, 1 comb. harness and saddle stallion. Good stuff and at prices that will move them. Barns 3 blocks north depot.
Fred Poos, Potter, Kan.

For Sale

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

KENTUCKY MAMMOTH JACKS

Jacks, jennets and saddle horses. 260 head to select from. Tamworth swine all ages. Catalogs now ready.
J. F. COOK & CO., Lexington, Ky.

PERCHERON HORSES, HOLSTEIN-FRIESIAN CATTLE.

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

75 HEAD JACKS AND JENNETS

All ages up to seven years old. Guaranteed as represented and prices reasonable. Special prices for fall trade. Come and see me.
PHIL WALKER, MOLINE, KANSAS.

35 Jacks & Jennets 35

Few good Percherons and saddle stallions. Jacks 14 1/2 to 16 hands and the very largest that can be found. 40 miles K. C. on U. F. and Santa Fe. Long distance phone.
AL E. SMITH, Lawrence, Kan.

FOR SALE. Extra good black Percheron stallion, sure breeder, a ton horse. GEO. GROENMILLER, Pomona, Kan.

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

QUALITY PERCHERONS.

A few head of stallions from 3 to 7 years including Imp. Alfart, a ton horse of rich Brilliant blood. Also a few Standard bred mares. Buyers met in Topeka on notice.
JOHN A. PECK, Phone Watson Exchange, Tecumseh, Kan.

FOR SALE—I have a good road or general purpose stallion (Standard bred, but not registered) sired by Douglas Almont (0398), by Allie Guiney by Almont (23), dam by "Champion" by Hambletonian 10. Bred by the present owner, has never been abused and is a sure foal getter and gets good ones. Fine disposition. \$300 will buy him. Address "H." Box 314, Baldwin, Kan.

M. H. ROLLER, J. O. ROLLER.

Breeders of registered jacks and jennets. For sale, 14 jacks and 20 jennets, 14 to 16 hands. All black. We raised all of these jacks and broke them. We are not speculators and you get them first hands if you buy from us. 39 miles N. W. of K. C., 65 miles W. Leavenworth. 6 passenger trains daily except Sunday, 2 Sunday. Write for catalog—free for asking if Kansas Farmer is mentioned. M. H. & J. O. ROLLER, Circleville, Kan.

Dunham's Percherons

Next large importation of stallions and mares, February 10th, which, added to our present stock, offers intending purchasers the finest collection in America. If you want the best horses, horses with bone, quality, size, action and best breeding stallions or mares; if you want fair and liberal treatment; if you want lowest prices consistent with good merchandise, visit Oaklawn. Catalog shows the place and the horses.

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

JACKS.

I have on hand a large collection of the best stallions the world produces. I have the best line of big boned, dapple gray and black, ton stallions that can be shown in the United States this season. These stallions measure from twelve to fourteen inches below the gamble and from eleven to thirteen inches below the knee and carry corresponding quality. They run in weights from 1,800 to 2,630 pounds each. I am offering greater attractions in stallions than any other importer. Prices the lowest. I have also forty big imported mares, all in foal, for sale.

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

time in alfalfa fields, farmers are sure to welcome anything that will prove effective in their control. A postal card addressed to A. F. Renken Trap Co., Kramer, Neb., will bring a descriptive circular which tells about these traps.

Northern Shawnee County Farmers' Institute will be held Tuesday and Wednesday, Feb. 22 and 23. Music at each occasion. Program for Tuesday evening, Feb. 22: Staying by the Farm, H. K. Evans; The Boycott, T. A. McNeal. Wednesday, Feb. 23, 10 a. m.: More Corn on Fewer Acres, A. L. Brooks; The Farmer's Garden, F. P. Rude; Good Roads, H. W. McAfee; Diseases of Our Meat Producing Animals that Relate to Our Health and Profit, F. L. DeWolfe, U. S. veterinary meat inspector; Beautifying Our Country Homes, L. A. Reinisch. Evening session: The Bank Commission, J. N. Dolley; Civics in the Public School, H. G. Larimer. Music for the evening by Dougherty's Glee Club.

Citizens of Omaha are extending whole hearted expressions of gratitude toward the Union Pacific Railroad Company for its gift to the city of a million dollar, 12 story, steel frame building for which bids have already been asked by the railway officials. Consideration of Omaha people in helping the Overland develop its terminal properties prompted the plan for the erection of the structure. The building will have a frontage of 173 feet and depth of 97. Jarvis Hunt, eminent architect of New York and Chicago, is the designer of the structure. All the Union Pacific offices now scattered about the city of Omaha will be brought together under one roof.

Many readers have noted the results at the great St. Louis Poultry Show, Dec. 8 to 11, 1909, and have seen the award of 1st premium on White Plymouth Rock cock, and also 1st premium on White Plymouth Rock hen, to William Miller, of Crescent, Mo. In this grand show there were between 5,000 and 6,000 birds entered, not counting pet stock. This pair of fowls are valued at not less than \$2,000. As a matter of news, as well as valuable information, it may be authoritatively stated that these beautiful premium winners were reared on Chamberlain's Perfect Chick Feed, which Mr. Miller has long regarded as the standard feed.

The general tendency of the time, to supplement labor-saving machinery for hand work in all branches of farming is well illustrated by the increased demand for potato-planting machinery manufactured by the Aspinwall Mfg. Company of Jackson, Michigan. This company manufactures potato cutters, potato planters—with or without fertilizer adjustment—sprayers and potato sorters. Potato planters report that the Aspinwall machines not only effect a great saving in time, but that their crops are greatly improved. Any one interested in potato growing can secure a copy of their free booklet telling how to make money growing potatoes by writing them direct at address above and mentioning this paper.

The Iron Age Garden Implements.

A good garden is one of the most profitable sections of the farm. With a diversity of food such as can only be had on the home-made garden, the farmer and his family retain better health, do not feel the monotony and grind of the work so much, and help to solve the problem of why the boys leave to farm. Frequently it is not possible or desirable to take the work teams from the field for the cultivation of a garden, although it would undoubtedly pay in most instances. Garden plots are sometimes selected so that horse implements can not be used in them to the best advantage, nor can horse implements do the best work under garden conditions. Hand tools are needed and a full line of these, which are adapted in every way to the needs of the farm or truck garden, is manufactured by the Bateman Manufacturing Company, Grenloch, N. J., whose free illustrated catalog will be sent to any reader of Kansas Farmer who will mention this paper when they write for it.

Galloway's Way.

Few men in business life have the ability to advertise as does William Galloway of Waterloo, Iowa. His "latest" is his new catalog, on the cover of which he shows a group of men engaged in cutting a watermelon, one slice of which goes to each of the manufacturer, the salesman, the broker, the jobber, the dealer and a small piece left for the farmer. Contrasted with this picture is one showing "Galloway's Way," in which the melon is cut in halves, one of which is retained by the manufacturer and the other given to the farmer. This shows his plan of selling the many articles which he manufactures direct to the farmer without any middleman's profits. The catalog shows the manure spreaders, cream separators, gasoline engines, harrow carts, steel tanks, pump jacks and other things that Galloway sells direct to the farmers in "Galloway's way." If you mention Kansas Farmer when you write him he will send you one of these catalogs free.

A New Potato Planter.

Announcements about the Aspinwall Manufacturing Co.'s potato planter in No. 3 are just out. This is an automatic machine which does the work of several men. One man and team can operate it perfectly and from the viewpoint of convenience, economy and accuracy, it is the machine to use if you plant a considerable area of potatoes. By its use you have less work, fewer doubles and fewer misses and the machine does not get tired while your hired man does. By using this machine you will secure better results with no injuries to your fingers and no dust thrown in your eyes. Mention Kansas Farmer and write to the Aspinwall Mfg. Co., Jackson, Mich., for their descriptive circular which will tell you about this machine. It is worth having.

A Wonderful Business Story.

To a man at all interested in automobiles, the most interesting story that has lately been told in the story of the Overland Car. Here is a car—selling as low as \$1,000—which is so simple, so automatic that it has practically captured the country. Two years ago only a few sample cars had been built. But those cars sold others, and the others sold others. This year the orders booked for the Overland called for \$24,000, 000 worth of cars. Thirty car-loads of Over-

Clearance Sale

of the famous Ziegler Corn harvester. Man and horse does work equal to corn-binder. Regular price \$15.00; factory clearance sale price, \$10.00; illustrated literature free showing machine at work.
Ziegler Mfg. Co., Salina, Kan.

WE LAY FOR YOU

Smith's Barred and White Rocks. Send for mating and price list.
CHAS. E. SMITH, Bayaville, Kansas.



QUEEN GALVANIZED IRON CUPOLA

Gives perfect ventilation in your barn—saves you money—constant up-draft gives fresh air circulation for your stock. Rain and snow cannot beat in and spoil your hay and grain—birds cannot get in. Costs less than wooden cupola; fits any barn; easily put on; each cupola furnished with gold leaf weather vane. Write for full information and prices.

SOBOLIK & PETERSEN, Dept. 10. CRESCO, IOWA

Mitchell County Breeders' Association

C. B. KERN, President.

J. F. HOWARD, Secretary.

Nothing but first class animals offered for sale for breeding purposes.

SHORTHORN CATTLE.

SHORTHORN CATTLE—50 head registered cattle. Herd headed by Royal Goods 293225, by Select Goods, by Choice Goods. Young bulls ready for service for sale. MRALL BROS., Cawker City, Kan.

LOCUST GROVE SHORTHORNS.

Herd headed by the pure Scotch bull Gloster's Model 287840. Three Scotch topped yearling bulls for sale. Also a few cows with calves at side. ELMER C. CREITZ, Beloit, Kan.

A YOUNG HERD of up-to-date breeding. Everything recorded. Our herd bull Alfonso by Magnet has produced us some great calves this season. BRINEY & BRINEY, Beloit, Kan.

BOOKDELL STOCK FARM.

Shorthorn cattle. Poland China hogs. Silver Laced Wyandottes.
E. E. BOOKER & SON, Beloit, Kan.

FOR SALE—A few young Shorthorn cows and some young bulls ready for service. Best of breeding. Write for information and prices. VINTON A. PLYMAT, Barnard, Kan.

HEREFORD CATTLE.

HEREFORD BULL CALVES for sale. Berkshire boars for sale, spring farrow. Will trade 2 or 3 for gilts. Bears by Commander out of dam by Speculation; grand dam, Alice Majestic, champion sow at Kansas City Royal. W. B. & J. M. Rodgers, Beloit, Kan.

50 HEREFORD CATTLE comprising the H. B. Woodbury herd. Some famous cows in this herd. 8 young bulls of serviceable age for sale. 4 miles from Tipton, Kan., 8 from Cawker City. JOHN SCHMIDT & SONS, Tipton, Kan.

100 HEAD OF HEREFORDS. The home of Caster 259475, the winner in every big show he was ever in. A few choice young heifers and cows for sale. F. L. BROWN & CO., Sylvan Grove, Kan.

ANGUS CATTLE.

ABERDEEN ANGUS CATTLE — A young but fashionable herd. Two young bulls of serviceable age for sale. E. C. BIRT, Beloit, Kan.

AUCTIONEERS.

COL. H. H. VANAMBURG
General and Live Stock Auctioneer.
Phone 434. BELOIT, KAN.

COL. F. L. SMITH
General and Live Stock Auctioneer.
Phone 943. BELOIT, KAN.

BLUE RIBBON STOCK FARM

For sale, 20 head of registered Percheron mares. Safe in foal. Color, ages, weights and prices right. Call on us.

LEE BROS., Harveyville, Kan.
Farm joins town.



MAASOAM & WHEELER

Breeders and Importers of Percheron Horses.
60 STALLIONS AND MARES to select from. Our stock has size, bone and quality. Stallions and mares from weanlings to 7 years old for sale. Imported and home bred.
FAIRFIELD, - IOWA.

STALLIONS AND JACKS.

2 black Percheron stallions.
2 Chestnut Stallions (Standard bred).
1 Spanish Jack.
1 Mammoth Jack.
No better individuals or surer sires in Kansas. You run no chances. Their colts are here to show. All qualified under the Stallion law.
If you want the very best at reasonable prices, come quick.

LAWRENCE, SUTTON FARMS, Kansas.

lands are shipped out every day, and \$4,000 men are employed in the making. The four Overland factories have 30 acres of floor space. Yet, with all this capacity, it has never yet been possible to keep up with the calls for Overland cars. The reason for this demand is apparent to anyone, it is said, as soon as he sees an Overland car. The car is so simple that a 10-year-old child can master it in five minutes. A novice can drive it a thousand miles without any trouble whatever. It is almost trouble-proof. One who wants some good reading should write to the Willys-Overland Co., Toledo, Ohio, for their book entitled "The Wonderful Overland Story."



H. & H. WOLF and DAVID COOPER
Imported and Home Bred Belgian Stallions.
Branch barn of H. Wolf, Wabash, Ind.

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

DAVID COOPER, Mgr., Freeport, Harper County, Kan.

FRANK IAMS'

new importation of draft stallions and mares arrived September 20, 1909, by "Iams' own special train" of "ten express cars." They are "business propositions" that "jar the cherries" on a "wide-awake" "horseman's hat." Iams' "Peaches and Cream" stallions and mares are "eye-openers." They are "diamonds," sold "at fifty cents on the dollar." They are "winners" an "sons of winners," having won "eighty prizes and medals" at Paris and Brussels and leading European horse shows. Iams makes buyers.

"SIT UP AND TAKE NOTICE"

"Ikey Boys" get into Iams' "money-saving game." Buy a stallion and mare today—save \$300.00. Iams "tickles" buyers with "Rippers" at "Let Live Prices." Owing to bad crops, panic—Iams' cash, his 27 years' successful business. He bought and sells better horses cheaper than ever. Mama, Iams is a "hot advertiser," but, "he has the goods" and sells horses at his barns only. Buyers get the "middlemen's profits" at Iams'. Iams has

200--PERCHERONS AND BELGIANS--200



two to six years old, weighing 1,700 to 2,500 pounds; 90 per cent blacks, 50 per cent ton stallions. All registered and branded. He sells "top-pers" at \$1,000 and \$1,400 (for 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 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 Horse Catalog, Greatest on Earth. References—St. Paul State Bank and Citizens' National Bank,

ST. PAUL, NEBRASKA

ROBISON'S PERCHERONS

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

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

Send for catalog and mention the Kansas Farmer.

J. C. ROBISON, - - Towanda, Kansas



HORSE MEN

We want to call your attention to our fine lot of IMPORTED AND AMERICAN BRED STALLIONS AND MARES. SHIRES PERCHERONS BELGIANS

We always have our barn full numbering up to sixty and you would do well to see us before buying elsewhere. Are going to make extra low prices for the next thirty days in order to make room for our spring shipment. We solicit correspondence, and invite you to come and see the grandest lot of horses ever brought together. Will give terms to suit the buyer. Don't buy without looking at these or you will miss a bargain.

L. R. WILEY & SON, Elmdale, Kansas.

100 RHEA BROS. 100 Acclimated Percherons

You may say this little ad looks cheap, offering so many good horses. Well, friend, it is cheaper than a larger space, that's why we use it. The buyer pays for it. REMEMBER THAT. You who have seen our horses at the State Fairs for years know that they are not the cheap kind; although by our economical system of raising and selling our stallions we can sell cheaper than most dealers. The records show that we exported three year old Percheron stallions at the Nebraska State Fair, 1909, with five importers who claim to have bought the best in France and our horses stood 1st, 3rd and 5th. They are all for sale at very reasonable prices. Every one fully guaranteed. Terms to suit. Life insurance furnished.

Write today or come to

ARLINGTON, NEB.

On main line C. & N. W. R. R., 25 miles N. W. of Omaha, 8 miles east of Fremont; 12 passenger trains daily

4th Annual Sale of JACKS AND JENNETS

Lafayette County Jack Farm

1 mile east of Higginsville, on main line C. & A. and Lexington & Sedalia Branch of Mo. Pacific, 55 miles east Kansas City.

Monday, February 28, 1910

50 Head High Class, Registered Black Jacks & Jennets



Every animal registered and guaranteed as represented. Nothing priced or sold after cataloged. Free conveyance from town to sale. Catalog now ready. If interested write for catalog 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 black 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. & A. depot.

W. J. FINLEY,

Higginsville, - - - - - Missouri

1881- O. P. HENDERSHOT -1910

Likes Lincoln for Business

I have averaged selling two horses for each day since opening my sale barns at the Fair Grounds. With my fresh importation of Percheron and Belgian stallions, I now have more stallions, mares and jacks than any other Nebraska dealer, I think.

My ton stallions weigh 2,000 lbs. My brood mares are breeders; my prices and guarantee will please you; my terms are cash and defy competition, quality considered. Office at Capitol Hotel. Barns at State Fair Grounds. Take North 25th St. car.

Write for new catalog describing 100 head. My patrons are my friends. I want your friendship. Address all mail to Lincoln, Neb.

O. P. HENDERSHOT, Capitol Hotel, Lincoln, Neb.



Percheron Stallions

I am offering an extra good lot of 2- and 3-year old Stallions for sale. Big drafty fellows with lots of bone. Also have a few mares for sale from yearlings to 8 years old.

R. F. D. 2. J. W. BARNHART, Butler, Mo.



Imported Percheron Mares and Stallions

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

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

FOR SALE AT RIVERSIDE STOCK FARM.

5 Percheron Stallions from 2 to 5 years old, 5 Percheron mares from 15 months old to 5 years old. A pair of registered matched Belgian mares. All registered and breeding guaranteed.

A fine young registered Shorthorn Herd with Royal Gloster at the head, a pure Scotch bred bull. I will trade this herd on a good farm.

Chapman,

O. L. THISLER & SONS,

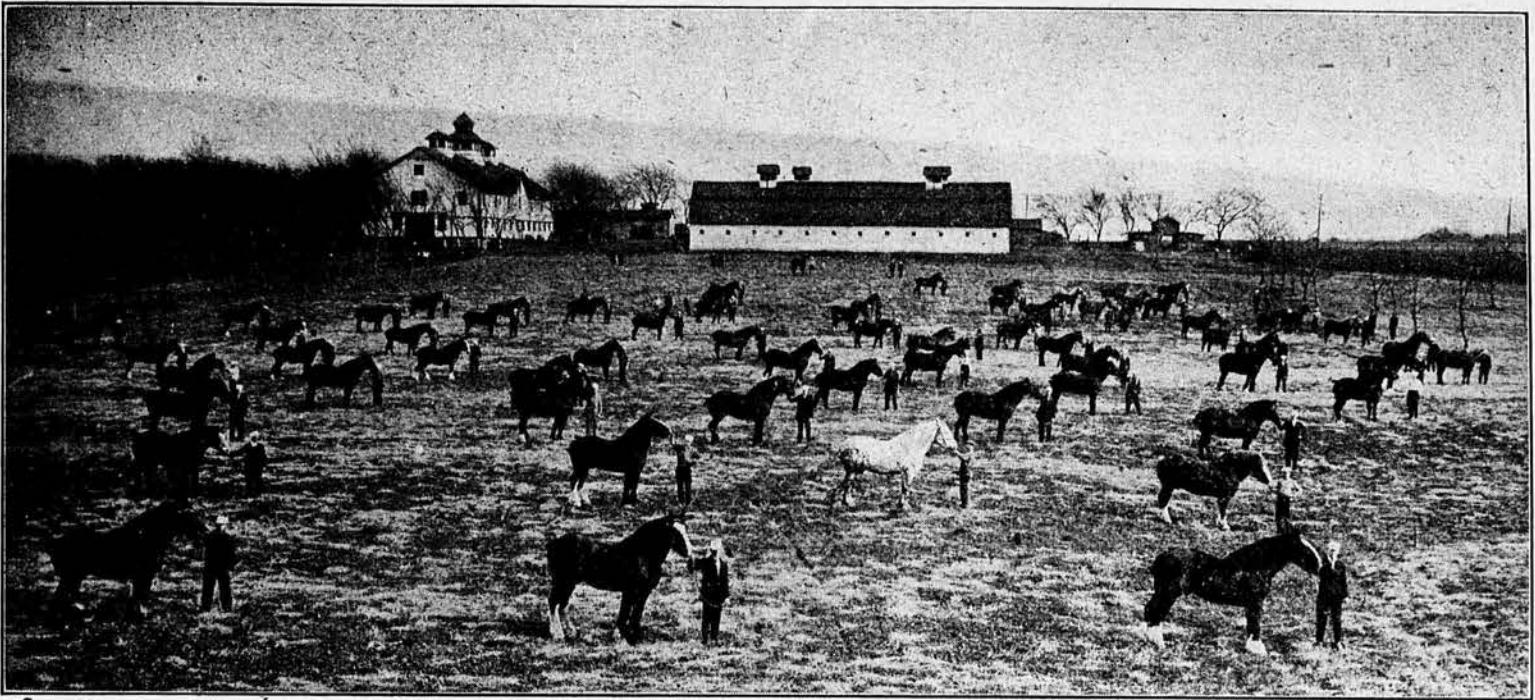
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The above cut shows you a photograph of 69 of the Percheron, Shire and Belgian stallions now in our stables. You are missing the opportunity of a lifetime if you do not send and get our new 1910 catalogue before buying a stallion. It will show you a large number of actual photographs of stallions now in our stables. These horses were all selected and imported early in the fall of the year 1909, and are all in prime condition to go out on the stand and do a big season's service. They are nearly all solid colors; range in age from 3 to 6 years; in weight from 1700 to 2300 lbs. They are the big-boned drafty type, with lots of style and action. Our 60 per cent breeding guarantee is as good as a Government bond. Get our catalogue. It is free for the asking.

WATSON, WOODS BROS. & KELLY CO.,

LINCOLN, NEB.

JACK SALE

33RD ANNUAL SALE

Limestone Valley Farm

TUESDAY AND WEDNESDAY,

March 1 and 2, 1910



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

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

20 HEAD HIGH CLASS REGISTERED SADDLE HORSES.

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

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

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

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

L. M. Monsees & Sons,

SMITHTON, PETTIS CO., MISSOURI.

Jack and Jennet Sale

Fairview Stock Farm

Thursday, Mch. 3, '10

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

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

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

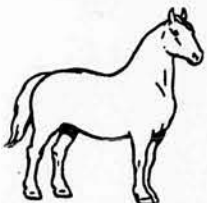
Send for our great illustrated catalog. We can place you. You are invited to attend this sale.

PETTY BROS.,

SEDALIA, MO.

Percheron Mares and Stallions Registered

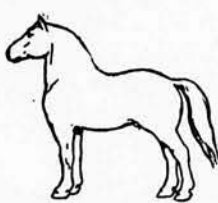
Several matched teams of Percheron mares, all blacks, safe in foal by Imported Stallions. Have both imported and home bred mares. Come and see our horses and satisfy yourself.



Our Motto: Top notch animals, square deal, quick sales, small profits. Make your wants known.

DANIEL WREN, Manager,

EUREKA, - - - KANSAS

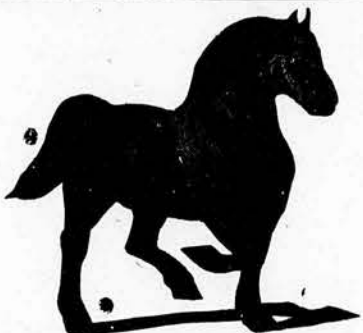


—PERCHERONS— SHIRES - BELGIANS

We received on Dec. 30th at our So. St. Joseph barns another carload of Percherons. All of our stallions and mares are imported; no home-bred, short-bred scrubs.

Our prices are the very lowest if you want a square deal, with the best and safest insurance and guarantee. All street cars going south from Union Depot pass our barns; one block from Transit House; one block from the South St. Joseph depot.

PERCHERON IMPORTING CO.,
Chas. E. Kirk, Pres., So. St. Joseph, Mo.



LAKEWOOD FARM

The Greatest Breeding Establishment in the World.

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

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

Branch Barns, Sioux City, Ia.

Great Falls, Mont.

Draft Stallions and Mares

Imported and Home Bred Registered Percherons, Belgians and Shires.



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

NORTH & ROBINSON, Grand Island, Neb.,

POPULAR SHEET MUSIC---16c A COPY.

Vocal.	Instrumental.
Are You Sincere?	Beedle-um-bo Rag.
Any Old Port in a Storm.	Blushing Rose Reverie.
Baritone solo—new.	Bud Rag—new.
Baltimore Bombashay.	Ben Hur March.
By the Light of the Silvery Moon.	Beautiful Star of Heaven.
Childhood.	Classic Rag.
Clover Blossoms.	Cotton Babe Two-step.
Daisies Won't Tell.	Chung Lo—new.
Dixie Darlings.	Dream Picture Reverie.
Dublin Daisies.	Dream Girl Waltz.
Dreaming.	Dream of Flowers—new.
Down in Jungle Town.	Dixie Darlings.
Floating Along.	Dixie Jingles Rag.
Games of Childhood Days.	Dublin Daisies.
Golden Arrow.	Fairy Kisses Waltz.
Her Name is Mary Donahue—new march song.	Fairies of Dawn.
Honey When It's Sunny.	Golden Arrow.
If I Only Had a Sweetheart.	Hand in Hand—novellette.
If I Only Had a Home Sweet Home.	Indian Summer.
I Want Somebody to Play With.	Jack in the Box—Three-step.
I'm Afraid to Come Home in the Dark.	La Sorella.
It's Hard to Kiss Your Sweetheart When the Last Kiss Means Goodbye.	Miss Liberty March.
Kid You've Made a Hit With Me.	My Pony Boy.
I Wish I Had a Girl.	Moon Bird.
Lonesome.	Merry Widow Waltz.
Love Will Lead the Way—new high class ballad.	Pearls New Novellette.
	Powder Rag.
	Rainbow.
	Red Wing.
	Razzy Dazzle.
	Under the Southern Moon—New march and two-step.
	Valse Mignon.
	Wedding of the Fairies—Waltz, by Chas. Johnson.
	Woodlawn Waltzes—new.
	Zamora Waltzes—new.

MAIL ORDERS PROMPTLY FILLED from this list, 16 cents a copy, 7 copies for \$1, postpaid. Send 25 cents for any piece not listed. If more, we will advise; and if less, we will refund.

E. B. GUILD MUSIC COMPANY,

722 Kansas Avenue,

Topeka, Kan.

HIGHLAND PARK COLLEGE,

Des Moines, Iowa.

Last Half of College Year Opens February 22, 1910

The last half of the college year at Highland Park College opens February 22. There are two full quarters of twelve weeks each yet this college year. New students may enter any department of the College at this time just as well as at the beginning of the college year. Beginning and advanced classes will be organized in all departments. Special classes will be provided for students of any degree of advancement. If interested in Preparatory, Normal, Primary, College, Engineering, Law, Pharmacy, Music, Cratory, Commercial, Shorthand, Pen Art, Telegraph, Automobile or Trade School work, write for special information in the department in which you are interested. Address

O. H. LONGWELL, President, Highland Park College,
Des Moines, Iowa.

45 - HEAD - 45
Poland Chinas

—Will sell at—

LOUISBURG, KAN., MAR. 4, 1910

The attractions are 5 tried brood sows, 5 extra good fall gilts sired by Donald Perf. and bred to Panic by Meddler 2d, 3 good gilts by Royal Tourist, 20 very fine gilts by Panic. Everything nicely bred and in good condition. Send for catalog and come to my sale. If you cannot come send bids to O. W. Devine, representing the Kansas Farmer. Catalogs are ready to mail out. Address

I. R. BERKEY
LOUISBURG, - - KANSAS

Auctioneer, Col. Lafe Burger, Wellington, Kan.

VALUABLE POULTRY SAVED

Don't lose your poultry on account of having Roup. Use Eureka Roup Remedy, guaranteed to cure and prevent all cases of Roup, if used according to directions. Price postpaid on receipt of 50 cents. Barred Rock eggs for setting 50 cents for 15. Write

EUREKA COMPANY, Margaret Gilbert, Manager.
Winfield, Kansas.

You Want A Square Deal

the highest market price for your hides—quick returns—in fact—A REAL SQUARE DEAL—then ship to us. If you have any hides on hand now or will have in the future—send them to us on our guarantee that you get a square deal all the time. Write for shipping tags. Postal card is sufficient.

Topeka **JAMES C. SMITH** Kansas
HIDE COMPANY

HIDES

For a number of years D. Hill of Dundee, Ill., has been advertising his evergreens in Kansas Farmer. Some years ago the writer was induced to give him a trial order for several uncommon varieties. The order was so well filled and the trees came through in such splendid shape that other orders have been given from time to time and all with the best of satisfaction. At present a number of people in the vicinity of Topeka, who plan to beautify their grounds, are clubbing together to send an order to Mr. Hill, as they are sure of getting the very highest quality of evergreens and will be able to save on the freight bills. Mr. Hill has issued a beautiful catalog that is profusely illustrated with pictures that are reproduced from photographs. The camera will not lie, and these pictures show the facts as they are on the Dundee Nursery grounds. Mr. Hill is an evergreen specialist though he grows and handles ornamental trees, shrubs and vines with equal success. He is now making a special offer which is well worth your attention. Kansas Farmer readers will be given copies of the free catalog on application. If this paper is mentioned, and if you ask for his picture postal card. This picture postal card will be worth 25 cents in cash on any order you may give Mr. Hill that amounts to \$2.50 or more.

The farm implement business of the Fuller & Johnson Company, Madison, Wis., has taken great strides. Recently the factory has added considerable time and labor saving machinery and processes. It has been equipped throughout with oil for fuel, taking the place of coal formerly burned in furnaces. The result has been to increase the output extensively. The implement department will be considerably increased in labor force and equipment. New machinery for turning out the woodwork has been installed. For instance, one machine now will produce from 1,500 to 1,500 vehicle tongues daily. Each tongue passes through the machine but once. From the rough stock the tongues go through this wonderful machine and come out complete, ready for painting. For the painting no hand work is now necessary. That laborious and distasteful job is now done by the use of the trolley system. A bundle of wagon-tongues, wheels, or other heavy parts, no matter how bulky or hard to handle individually, is now strung up by the trolley and put through a paint bath, and after immersion a single jerk sends it to a drying platform. Everything entering into the various implements is painted in this way as fast as the trolleys can move the burdens. They have lately built a new factory for the manufacture of farm pump engines. Their machines are very popular.

While much has been said in regard to the "Corn King" and all deserve much credit for the work that has been done, yet none deserve the special recognition that is due L. B. Clore of Franklin, Ind. At the Chicago and Omaha National Expositions he won more than \$10,000 in prizes on his Grand Sweepstakes ten ears of corn. Sweepstakes thirty ears, Sweepstakes bushel, etc. With these great winnings and the best interest of the National Expositions, it was thought best by the management to bar him from the sweepstakes class in 1909. This practically put him out of the ring, and he was then made superintendent of judges. While Mr. Clore is only in his forties he is a pioneer in corn improvement work, beginning the work something like twenty years ago by the individual row system. It is this work and the influence of such men back of it that has been the means of placing Indiana at the head of the list of corn states on yield per acre as well as quality. Mr. Clore is the originator of the "Johnson County White," a cross between the "Boone County White" and "Forsythe Favorite." Would it not be a good idea for farmers in general to select and plant better seed and add the increase to improving the farm homes and living? We are glad that Mr. Clore did not accept the offer made him by the Russian government to assist in corn growing in that country, but will remain with us. It is hard to estimate the worth of such men to our country.

Hide and Fur Market.

Furnished by James C. Smith Hide company, 108 E. Third street, Topeka, Kan. Below prices are for week ending February 5, 1910. While they may not prevail for week following, they will give you a very close idea of prices which will prevail.

Raccoon, large prime	.....\$1.75@2.00
Raccoon, medium prime	.....1.35@1.65
Raccoon, small and No. 2	......60@1.50
Skunk, black prime	.....2.60@3.60
Skunk, short prime	.....1.75@2.75
Skunk, narrow prime	......75@1.85
Skunk, broad and unprime	......25@.85
Mink, large dark No. 1	.....5.00@6.00
Mink, medium No. 1	.....4.00@5.25
Mink, small No. 1	.....2.75@4.25
Mink, unprime	.....1.00@2.25
Opossum, large cased No. 1	......60@.85
Opossum, medium cased No. 1	......40@.65
Opossum, small cased No. 1	......10@.30
Muskrat, winter	......15@.50
Civet Cat	......25@.45
House Cat	......05@.10
Fox, gray	......60@1.00
Fox, red prime	.....3.50@4.50
Wolf, prime mountain	.....3.00@4.50
Wolf, prairie	......75@3.50
Wild Cat	......25@.75
Beaver, large, each	.....5.00
Beaver, medium	.....3.50@4.00
Beaver, small	.....1.50@3.00
Badger, No. 1	......50

All other badgers practically worthless.

Hides.	
No. 1 No. 2	
Green Salt Cured, natives	.....11 c 10 c
Green Salt Cured bulls	.....10 c 9 c
Green Salt Cured, Side Brands,	
40 lbs. up, flat	.....o 9c
Green Salt Cured, Glue	.....6 1/2 c
Green Salt Cured Deacons	.....25 c 50 c
Slunk	.....15 c 20 c
Tallow	.....6 1/2 c 5 1/2 c
Bees Wax	.....25 c 15 c
Horse Hides	.....\$2.50@3.25 \$1.50@2.25
Ponies and No. 3	......75c
Dry horse, half price of green.	
Green Salt Sheep Pelts	.....25c@1.00
Green uncured hides 1 1/2 less than same grade cured. Green half cured 1/2 less than cured.	

Dry Hides.

Dry Flint, Butchers' Heavy	.....17c
Dry Flint, Fallen Heavy	.....16c
Dry Flint, Light, under 16 pounds	.....17@18c
Dry Flint, Culls	.....10c
Dry Salt, Heavy, 18 lbs. and up	.....14c
Dry Salt, Light, under 18 lbs.	.....10c
Dry Sheep Pelts	.....10@12c

Above prices are delivered at Topeka, Kan.

THE STRAY LIST

Wilson County—Clerk
Heifer—Taken up, Dec. 18, 1909, by C. H. Mitchell, in Duck Creek Tp., one red and white spotted yearling heifer, no marks or brands.

Lyon County—O. K. Miller—Clerk.
HEIFER—Taken up, No. 1, 1909, by J. M. Steward, in Emporia tp., one red heifer, valued at \$20.

Renos County—A. R. Hamma, Clerk.
HORSE—Taken up, by C. C. Smith, in Valley tp., one dark bay horse, 9 years old, small wart on right side of neck, saddle mark; valued at \$50.

Neosho County—O. M. Johnson, Clerk.
SOWS—Taken up on or about Jan. 1, 1910 by L. H. Anderson, in Centerville tp., four sows as follows:
Two of them gilts Poland Chinas, color black, one with some spots, each weighing about 200 pounds, age supposed to be 8 or 9 months each. One black Poland China sow weighing about 300 pounds, and one black Poland China sow weighing about 275 pounds, with a split snout dropping down on each side. The age of the old sows being a year old or older, possibly 2 years old, value of 4 sows \$84.

SHORTHORN CATTLE

FOR SALE.

12 bulls, 12 to 18 months; 20 cows and heifers for sale.

Shaw Bros., Glade, Kansas.

ALFALFA LEAF SHORTHORNS.

Spectacular offering of four bulls. One by Archer 205740, out of a Victoria Cow. Three by Nomporell Star, one a Victoria, one Imp. Edelweiss and one Christmas Gift. Also a few choice heifers of equal quality and breeding.

John Regier, Whitewater, Kan.

EVERGREEN HOME FARM.

Milking Shorthorn Cattle, Bred Hornless. Berkshire Hogs, Oxford Down Sheep, Bourbon Red Turkeys.

LATHROP, MISSOURI.

JEWELL SHORTHORNS

A young herd of up-to-date breeding. Also Percheron and Standard bred horses. In stud, the Percheron stallion Marquis De Wierre (Imp.). Also the Standard bred stallion, Red Seth 31185. Farm adjoins town. Come and see us.

W. T. LOWE, Jewell, Kansas.

SCOTCH TOPPED BULLS.

We have for sale some choice last spring bull calves sired by our herd bull, Pleasant Hill Master, one of the best sons of Master of the Grove. Will make reasonable prices on these.

O. A. TILLER, Pawnee, Neb.

A CAR LOAD SHORTHORN COWS.

All are bred or have calf at side. 4 good young bulls that I am sure will suit. Even thing nicely bred and in good condition. Moderate prices. Come and see us.

D. H. FORKES & SONS, Topeka, Kan.
R. F. D. No. 8, Bell Phone 31.

HUMBOLDT NATIONAL STOCK FARM

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

H. F. Pelphrey & Son, Humboldt, Kansas.

Center Grove Stock Farm

Scotch Shorthorn cattle and 20 bred sows and a few good spring hogs of large type Poland China hogs. Write me what you want. No trouble to answer letters. Bell Phone.

J. W. Pelphrey & Son, R. 6, Chanute, Kan.

Prospect Farm Shorthorns

The oldest Shorthorn breeders in Kansas. The largest herd of Cruickshanks in Kansas. Herd headed by Violet Prince 14567 and Orange Commander 220590. Young stock of both sexes and some cows for sale. Quality and prices right.

H. W. McAFEE, Topeka, Kan.
Bell Phone 59-2.

SHORTHORN BULLS

Choice young bulls for sale sired by the pure Scotch bull Scottish Archer and out of Scotch topped cows. Reds and excellent individuals. Will be priced reasonable. Also few bred Poland gilts.

S. B. AMCOATS, Kansas.
Clay Center.

Short-horn Bull

to head your herd right in every way, write us for full particulars at once.

C. G. COCHRAN & SONS, Kansas.
Plainville.

RED POLLED CATTLE

AULD RED POLLS.

Herd established 7 years. Choice breeding and individuality. Three young bulls for sale.

Frankfort, Kansas.
AULD BROS.,

FOSTER'S RED POLLS.

7 choice young bulls and a few good females for sale. My prices are right. Come and see my herd.

C. E. Foster, Eldorado, Kansas.

POLLED DURHAM CATTLE**POLLED DURHAMS.**

Young bulls. Cows and heifers bred to Boon Hero, the Double Standard Champion. Prices reasonable. Write for terms.
C. J. WOODS, Chiles, Kan.

BELVEDERE X2712-195058

Son of the \$1,500 Grand Victor X1685 150364 heads my herd of Doubled Standard Polled Durhams. A few extra good blocky, thick-fleshed young bulls for sale. Inspection invited. Farm adjoins town.
D. C. VAN NICE, Richland, Kan.

HEREFORD CATTLE**BEAU BRUMMEL**

10th 167719

Modern Herefords. Herd bulls, Beau Brummel 10th 167719, Beau Beauty 192235—and Protocol 2d 91715. Robert H. Hazlett, Hazford Place, Eldorado, Kansas.

ANGUS CATTLE**25-BULLS ANGUS-25**

Ready for Service.

30-BRED COWS AND HEIFERS—30
Sired by or bred to CHAMPION ITO, sire of 1st Prize Calf Herd at American Royal.
10-SHROPSHIRE EWES IN LAMB—10

To our Imported Show Ram.

SUTTON FARMS, LAWRENCE, KAN.
400 Angus in Herd.

VIEW POINT ANGUS HERD.

15 choice cows in age from 3 to 7 years. Representatives of the Heroine, Mina, Duchess and Dimple families. All of them raised calves the past season and are bred for March calves to the great Louis of Meadow Brook, sire of champions. Nearly all of these cows were raised on our farms and are only being sold to reduce the size of herd. Low prices. Mention this paper when writing.
PAUL M. CULVER, Edgerton, Mo.

HOLSTEIN CATTLE**HOLSTEIN BULLS**

Sired by "King of the Pontiacs," "King Segis Pontiac," DeKol 2nd's Butter Boy 3rd and other noted sires. A car load of these fellows on hand, and they will be priced to sell.

Rock Brook Farm, Henry C. Glissman, Prop.,
Omaha, Sta. B, Neb.

EAST SIDE DAIRY HOLSTEINS

for the year 1909 has enjoyed an exceedingly prosperous business, by having sold over 100 head to various Dairy Farmers and breeders over this State and others, if good breeding and the large Milk and Butter producers are appreciated by those desiring better Dairy cows I should have my hands full filling orders for 1910. Write me your requirements.
F. J. SEARLE, Oskaloosa, Kan.

JERSEY CATTLE**LINSCOTT JERSEY CATTLE**

Established 1878. Registered in A. J. C. C. Any animal for sale.
R. J. Linscott, Holton, Kansas.

HAMPSHIRE SWINE

Oldest herd in the West. 30 boars of serviceable age. Also bred sows and gilts.

W. F. DAVIS, So. St. Joseph, Mo.

BERKSHIRES**BRAEBURN BERKSHIRES.**

Pigs, high-class in quality and breeding.
H. B. Cowles, Topeka, Kansas.

RIDGEVIEW BERKSHIRES.

2 herd boars for sale. 1 two-year-old by Forest King, other males of different ages. Sows and gilts open.
Manwaring Bros., Lawrence, Kan.

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

SUTTON BERKSHIRES

Were champions at the American Royal and International Shows. 30 bred gilts, 150 to 350 lbs., sired by or bred to our wonderful sire, Berryton Duke, Jr., or Star Duke 4th, junior champion at International Show. Guaranteed strictly choice with short heads, size and quality. Also 10 fancy boars, 125 to 300 lbs.
500 Head in Herd,
Sutton Farms, Lawrence, Kan.

AUCTIONEERS**L. E. FIFE,**

LIVE STOCK AUCTIONEER.

Newton, Kansas.

Breeder of Percherons, Shorthorns and Duroc Jersey hogs; posted in pedigrees; terms reasonable. Write or wire for date.

COL. JOHN D. SNYDER

LIVE STOCK AUCTIONEER.

Sales made everywhere. Write or wire me for dates. Prices reasonable.

WINFIELD, KANSAS.

W. C. CURPHEY

LIVE STOCK AUCTIONEER.

Write, phone or wire me for dates. Abilene, Kansas.

COL. ESSIE CRAVEN

NORTH BRANCH, KAN.

Twenty Years Selling All Breeds.

LIVE AND LET LIVE

is my motto. Reasonable charges and good service. Choice dates if you write early.

JAS. T. McCULLOCH

CLAY CENTER, KANSAS.

R. L. HARRIMAN

AUCTIONEER

PEDIGREED LIVE STOCK

Write me for dates.

BUNCETON, MO.

J. H. MOORMAN,

Live Stock and General Farms sale auctioneer. Satisfaction guaranteed. Long distance phone connection.

SOLOMON, KANSAS

Frank A. Dawley of Waldo, Kan., extends a cordial invitation to all friends and lovers of good swine to attend his sale at his home town on Feb. 18. He writes: "It has always been my endeavor to produce the pork barrel kind as well as the kind that will win at the big state fairs. It has always been my practice to buy a sow that was sired by a state fair winner, rather than one without that reputation, although he may be equally good. You know I am right, so come to my sale and note that practically every sow in the offering was sired by a champion or is bred to one. The greater part of the offering was sired by S. P.'s Perfection, grand champion Iowa State Fair. They were bred to Impudence I know, grand reserve champion of Missouri State Fair, and this nick is the best I have ever made. I am selling a full sister to the champion bear of Ohio and Indiana and a full sister to the St. Louis champion, Meddler. Others are Majestic Lady, Lall's Special, First Choice, Fluffy Ruffles, Minerva, Fantastic Portia and Mellowness, all bred for early litters to S. P.'s Perfection. Water Pansy 2nd by On and On and out of the famous sow Water Pansy by Meddler. 2d is a killer. Evangeline and Silky are extra fine individuals by S. P.'s Perfection. Anna Lee, Miss Wright, Hello-trope, Lady Profit, Meddlesome, Miss Bob and Lady S. P. are gilts and fall yearlings of unusual merit bred to Impudence I know. I also have cataloged a number of fine S. P. Perfection gilts that are bred to Impersonator, the best boar I raised in 1908, and Advance Guard by Meddler 2d and out of the great sow Dancing Girl. The boars I am offering are an unusually fancy lot, and any one of them is good enough to head one of the best herds in the land if properly handled. I am satisfied these boars will make Poland China history if they are given a chance. I wish to urge one and all to come to this sale and suggest that you come the day before and look the offering over. No one can serve you as well as you can serve yourself."

Classified Ads Bring Results.

The two little classified ads I ran in Kansas Farmer at a cost of 78 cents sold all my geese. I received orders for seven in one day. It was a paying investment.—Mrs. W. E. Bradley, Effingham, Kan., Feb. 4, 1910.

Railroads Want 10,000 Men.

Only those who are thoroughly familiar with the matter can appreciate how great is the demand that exists today for competent men to fill positions of railway brakemen and firemen, electric motormen and conductors, nor the fact that competent men in these lines are always sure of their positions and make far more money than the average professional or business man. It is a fact, nevertheless, the cry of the railroads is for more men and better men—salaries range from \$85 to \$185 per month and then with promotions there is almost no limit within reason to the salaries paid. It must be understood that the railroads cannot intrust human lives and valuable freight to novices, but it must not be thought that the only way to gain experience is to get a position with a road and work up from the bottom. The railroads long ago foresaw the necessity of providing for their wants and provided means to supply it. The Wenthe Railway Correspondence School of Freeport, Ill., is the official school operated by experienced railway officials to give those who want a railway position what practically amounts to years of experience and enables anyone of average intelligence in a short time and at almost no cost to be fitted for a position at big pay. The school absolutely guarantees its graduates who are mentally and physically competent positions and makes its guarantee under legal bond. It is the only school which does this or can do it, for it is the only official school and we suggest that those who want a good position write at once to the Wenthe Railway Correspondence School, General Office 000, Freeport, Ill., for full particulars.

POLAND CHINAS**HOMWOOD STOCK FARM IMPORTERS AND BREEDERS OF PERCHERON, BELGIAN AND SHIRE STALLIONS AND MARES.**

Sixty head of stallions arrived August 10th. 40 head of Percheron mares arrived on Nov. 5th. If in the market for a first class animal of either sex, with size, bone and quality, don't fail to inspect our horses before purchasing elsewhere. No matter what you want in the stallion or mare line, we can suit you, and at a price that will please you. Remember, every animal guaranteed a satisfactory breeder. Our Motto: Prices right, terms to suit, satisfaction guaranteed. No misrepresentations or disappointments on arrival. For the convenience of our western trade we have established a barn at Abilene, Kan.—J. McCord's barn.

Homewood,

METZ & SONS,

Illinois.

HIGHVIEW BREEDING FARM.

The only registered herd of big boned spotted Polands on earth. Write for catalog of my big bred sow sale, Feb. 16.

H. L. Faulkner, Box K, Jamesport, Mo.

10 SPRING POLAND BOARS 10

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

J. F. Menahan, Burchard, Neb.

POLAND CHINA SALE, JAN. 24, 1910.

23 bred sows, 10 gilts, 10 boars, 17 summer and fall pigs. Send for catalog and some to my sale.

Chas. H. McAllister, Carmen, Okla.

STRIKER BROS.' HERD POLAND CHINAS.

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

Striker Bros., Fredonia, Kan.

BIG KIND POLAND CHINAS.

Write for description of my large boned, growthy pigs, sired by Mammoth Hadley 52828, a worthy son of the \$500 Big Hadley. Sows in herd by Johnson's Chief, Prince Youtell, First Quality Over Chief, Highland Chief and others. Get your name on the mailing list and remember sale date.

Geo. W. Smith, Pawnee City, Neb.

SNYDER BROS.' HIGH CLASS POLAND CHINAS.

Either sex, bred sows and bred gilts, priced right for quick sale. Write your wants.

Snyder Bros., Winfield, Kan.

DUROC JERSEYS**GILTS RESERVED FOR MY FEBRUARY 2 BRED SOW SALE.**

Big, growthy spring boars for sale at bargain prices. Bred right and fed right. Priced right.
E. M. MYERS, Burr Oak, Kan.

BOARS BOARS BOARS BOARS

15 good ones left sired by the \$2,500 King of Col's 2nd. Prices consistent with time of year. Bred sow sale at Clay Center, Feb. 17th.
FRANK ELDER, (Successor to Grant Chapin) Green, Kan.

R. & S. FARM.

In their Bred Sow Sale, Feb. 3, 1910, at Smith Center, Kan., will offer about 40 select Golden Ruler Gilts bred to King of Kant Be Beat 88333 and R. and S. Prince of Col's 88797, also a few tried sows bred to Golden Ruler 80555. King of Kant Be Beat is 2 years old and weighs 800 lbs. Has a 10-inch bone and stands perfect on his feet. Breeders should sit up and take notice of such an offering.
Rinehart & Slagle, Smith Center, Kan.

HOWE'S DUROCS.

Special prices on boars and gilts sired by Rex K., champion at Wichita fair this year. Also a few by Perfect Improver, grand champion at Wichita 1907 and 1908. Only a few left, get busy and send in your order.
J. U. Howe, Wichita, Kan.

CEDAR LAWN HERD.

Nice lot of spring boars, sired by Long Wonder, Bella Chief, Rose Bell and Top Model, a choice lot of fall gilts open or bred, priced right to sell quick. Write me at once.
F. M. Buchheim, R. D. 3, LeCompton, Kan.

BRED SOWS AND GILTS FOR SALE

By Bonney K 47075 or others bred to him. Also both sows and gilts bred to Kant Be Beat 2nd. I will sell choice bred sows with Pearl H. Pagett at Beloit, Kan., Feb. 1.
R. G. ollenburger, Woodston, Kan.

FOR SALE.

A few late spring and summer boars of good quality, also some good bred yearling sows and spring gilts priced right.

H. A. J. COPPINS, Kansas.

GREENWOOD HERD DUROC JERSEYS.

Herd boar Dandy Duke 64663, few choice spring boars for sale and few extra good spring and fall gilts, few tried sows bred for spring litters. Write or come and see me.
R. D. Martin & Sons, Eureka, Kan.

FOR SALE.

Two gilts out of Variety Maid, sired by Light Shade 80909. My hogs won \$50 at Coffeyville fair. Four head sold at the sale at Enid, Okla., for big prices. Bronze turkeys for sale.
J. M. Young, Fall River, 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, Kan.

Stodder's Duroc Jersey Bargains

30 bred gilts large and thrifty sired by May Boy, Improver Lad and Helen's Wonder. They are bred for March and April farrow to my inventor boar and Helen's Wonder, a son of Red Wonder. I also offer a few Shorthorn bulls by Capt. Archer.
J. F. STODDER, Burden, Kawley Co., Kan.

POLAND CHINAS**POLAND CHINAS.**

20 early spring Poland China gilts, tracing to the large type Expansion—will sell them bred or open, a few choice spring hogs, prices reasonable; satisfaction guaranteed.
Oliver & Sons, Danville, Kan.

MELBOURNE HERD POLAND CHINAS.

I have a few choice spring boars and gilts sired by Gold Metal, Hadley Boy and Kiever Boy for sale at moderate prices. Let me know your wants.
John C. Halderman, Burchard, Neb.

POLANDS! POLANDS! POLANDS!

Capt. Hutch, Moguls Menarch and Toulon Prince in service. Big type clear through. 4 young boars for quick sale. 2 July boars that are herd boar prospects.

J. H. HARTER,

Westmoreland, Kansas.

EXPANSION POLAND CHINAS.

A choice lot of Expansion bred fall pigs, both sexes. September farrow for sale. Nice, thrifty pigs and will be sold worth the money. Mostly Expansion blood, though I have other good ones for those who want them. Get your orders in early.
W. E. Willey, Steele City, Neb.

FOR SALE

Three boars, May farrow, show prospects of a high class. See these in need of a junior yearling next fall.
JEWELL BROS., Humboldt, Kansas.

RIDGEVIEW POLAND CHINAS.

Headed by Union Leader 502507. Growthy pigs, both sexes, for sale. Also two yearling boars by Old Expansion. Description guaranteed.

W. R. Webb, Bendena, Kan.

DUROC JERSEYS**NEW LOCATION**

at Enid, Okla., will hold a grand champion bred sow sale March 24, 1910.

S. W. ALFRED & SON,

Sharon, Kansas.

DUROC JERSEY BOARS AND GILTS.

The tops of my spring crop. Sired by the Champion Chief Tattarrax and G. M.'s Carl Col. Dams of the richest breeding. Reasonable prices.

Geo. M. Hammond, Manhattan, Kan.

"DUROCS GROWN IN THE OZARKS."

Ohio Chief and Col. Blood. Litters by Muncie Chief, Model Prince, King of Models, Inventor, The King I Am Advance; several by Col. Carter, by leading bred boar. They are all grown right are good and we answer all letters of inquiry.

C. I. Carter, Cabool, Mo.

SPRING BANK HERD DUROCS.

Herd headed by W. H.'s Colonel, the first prize junior yearling boar at Hutchinson fair, 1909, and Chief's Orion, the third prize aged boar at Kansas State Fair, 1909. A few choice spring boars and sows bred to either of the above named boars for sale.

W. H. Williamson, Raymond, Kan.

Hanley Strain of Durocs

Write for prices.

Paul B. Johnson, Leavenworth, Kan.

Fitch's Kant—Chief Improver

A nice line of March and April boars to price worth the money after August 1. Write any time for prices and information.

W. T. Fitch, Minneapolis, Kan.

CHAPIN & NORDSTROM

have for quick sale, 3 spring herd boars by King of Col's 2d. 1 by G. C.'s Col. All show prospects.

CHAPIN AND NORDSTROM,

Green, Kan.

Mail the Coupon for full explanation of our great 10 day free trial offer.



Grind your tools better and 25 times quicker than with a grindstone. 4,000 revolutions a minute.

7 MACHINES IN 1

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| 1. ROUGH GRINDER | 4. SICKLE GRINDER |
| 2. FINE GRINDER | 5. POLISHING WHEEL |
| 3. SAW GUMMER | 6. RUST REMOVER |
| | 7. HONE |

Sharpen Your Tools At MY Expense!

I will send you a **Harman Special Carborundum Farm Tool Grinder**, with seven Genuine Carborundum Grinding Attachments, right to your farm for an absolutely **free trial** lasting 10 days.

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

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

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

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

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

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

Genuine Carborundum (Diamond) Grinder—NOT an Emery Wheel

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

Carborundum is an absolutely new substance. It is not simply a substance which is dug up out of the earth, in fact, it does not occur in nature at all. Carborundum is manufactured in the most terrific heat which man has ever been able to produce. A heat so great that it will actually burn up a common brick like so much gun powder. And in this incomprehensible heat is produced Carborundum. **It is the heat in which the worlds were formed.** Every one of the beautiful iridescent, needle-like crystals is so hard that it will actually scratch the diamond itself. It is these crystals which are crushed up and made into the grinding wheels. It is these inconceivably hard and sharp crystals which cut through the hardest steel more easily than the finest emery wheel will cut through soft copper.

SAVES TIME—EFFORT—MONEY!

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

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

LASTING—BINDING—GUARANTEE

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

Carborundum will NOT draw the temper from steel

Carborundum wheels will not wear in spots or become lopsided. They will not glaze over. They are not only hard, but they are equally hard throughout. There are no soft spots in a Carborundum wheel. Many have been in use for 10 years and show hardly a bit of wear. Carborundum wheels will positively not draw the temper of the finest tool. The reason for this is that Carborundum does not heat the article which is being ground as does an emery wheel or a grindstone. Carborundum cuts and cuts quickly—it cuts so quickly that the steel does not have time to heat.

HARMAN SUPPLY CO.,

Dept. 3222, 160 Harrison St., Chicago, Ill.

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

Name _____

Address _____

NO LETTER IS NECESSARY; JUST SEND THE COUPON

THOUSANDS IN USE

Read These Letters of Praise

Best For All Kinds of Tools

Enclosed you will please find money order for Harman Grinder which I received about ten days ago. Will say that I have tried it on everything from a razor to a plow point and am well pleased with the machine. It is the most complete section grinder I ever saw, and for grinding all kinds of tools I never saw its equal.

W. L. PRYOR,
Titusville, Ind.

Abused But Still Works Well

We think the grinder is a great machine. It does fast work; we have tested it to the extent of abuse, but all rough tools yield to it; just what is claimed for it.

HOOVER & PERSHING,
Muncie, Ind.

Beats All Grinding Machines

The Harman Grinder arrived yesterday in good shape. I put it together and tried it on a set of mowing machine bars, and I was astonished at the work it did. It beats all the grinding machines I ever saw, and I have seen at least six different kinds. I can set the bar holder just right and it will grind two sections on the side of the stone without touching it (the bar). I also tried the tool grinder. I found five cold chisels and a center punch, which as usual with all farmers, were as dull as possible, some of them being one-eighth of an inch on the edge. I ground them to a fine edge and finished a very smooth fine edge on polishing wheel, and just think, I was just 12 minutes and did not hurry at all. And you know cold

chisels sent out with mowing machines are generally tempered pretty hard. I am certainly going to keep the machine, and if I could not get another I would not take any money for it.

PHILIP CARLYOU,
Dunkirk, N. Y.

She is a Dandy, Very Well Satisfied

I received your machine all right and am very well satisfied; she does better than I expected. She is a dandy. Every farmer ought to have one.

ANDREW GINHAL,
Brainerd, Minn.

Cuts Steel Like Wax

Enclosed please find check for the grinder. I am very much pleased with it and I find it cuts down steel as fast as wax in a fire. Thanking you for your attention and living up to your advertisement, I am,

A. SIMPSON,
Cambridge, Mass.

Makes Cross Cut Saw Good as New

I received your tool grinder the 20th and have given it a thorough trial. It does the work fine. I have gummed a cross cut saw and it is as good as new. The Harman Grinder is a dandy, and I would not be without one.

S. A. BAUGHMAN,
Bloomfield, Ia.

It Cuts Splendid

I received the grinder on the 16th inst., have tried the tool wheel and it is O. K. I like the way the machine works as far as tried; it cuts splendid.

C. J. TOWELL,
Annville, Jackson Co., Ky.

SEND THIS FREE Coupon

Remember 10 Days' Free Trial

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

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

SEND THE FREE COUPON NOW.

HARMAN SUPPLY CO. 160 Harrison St. Chicago
Dept. 3222



Grinding an ax with the Harman Special Carborundum Farm Tool Grinder.