

KANSAS FARMER

For the improvement



of the Farm and Home

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TO own land, to delve in it and to plant seeds against the harvest, is the commonest delight of the race and the most satisfying of human vocations.

Land is a patent of nobility, and success in life is measured by ability to buy it. It is the pride of the rich and the passion of the poor.

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—I. D. G.



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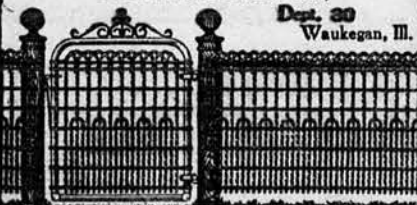
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DRY WEATHER CROP

Important Experiments In Field Crops
By Leavenworth County Farmer

J. M. Gilman, Leavenworth, Kan., the writer of this instructive article, was formerly county superintendent of schools for Leavenworth County, but during that time farmed successfully. He is a grower of pure-bred seed corn, and his corn has won many prizes. He is a candidate for the Legislature from his county and, in our opinion, would make a good representative. This article gives a good idea of the dependence the Eastern Kansas farmer should place in drouth-resisting crops. Feed—plenty of it—every year, is what the farmer needs, and this article will help him to it.—Editor.

The past year was a trying one for crops of all kinds, and a statement of particulars relating to the crops that were most successful in resisting the climatic extremes may be interesting, and perhaps in a measure profitable. While the results of success or failure in one locality for one or several years can not be taken as a statement of results to be obtained in other places, or even in the same place for all seasons, yet close study can nearly always find something of value in an experiment when location, soil, season and methods are considered in connection with the results obtained.

On this farm, on a clay loam soil, second year from prairie sod, rather below the average of the farm in fertility, a comparative test of many varieties of saccharine and non-saccharine sorghums has been made, and as the season turned out, it afforded a test of their comparative drouth-resistance. From April 23 until August 3 we had five-eighths of an inch of rain, while for fourteen days the thermometer stood at 100 degrees or higher, with a hot wind blowing. This is in all probabilities a record approximating semi-arid conditions, possibly even worse, but through all the stress of wind, heat and lack of moisture, certain crops made a slow but continuous growth, some of the non-saccharine sorghums ranking next to cow peas in this respect, and followed by peanuts as a third.

The sweet sorghums, black hull Kafir, red Kafir, brown durra, Jerusalem corn, shallu, pencilaria and teosinte attained a height ranging from three to four feet, and then remained practically dormant, or resting, until the rains, after which they developed heads and seeds very rapidly—seemingly more rapidly than usual.

The Kowliangs, however, with dwarf, standard and upright milo, and to a lesser extent white hull Kafir and white milo, made a continuous growth, the leaves curling up in the daytime and unrolling at night. Some of them formed heads, bloomed, and all of them seemingly would have developed and ripened the seed crop without rain.

Of the non-saccharines, dwarf milo and white Kowliang were the earliest, showing heads by August 1, followed in order by black hull Kowliang, upright milo, standard milo, brown Kowliang (24993), brown Kowliang (22911), white milo, Jerusalem corn, brown durra, the Kafirs, red, black hull, white hull showing heads about September 1; red Kowliang about September 10, and shallu about September 15. Pencilaria did not head until October, and teosinte did not head at all. All these varieties, except the last two, matured seed in about twenty days from the time of heading.

The relative amount of grain produced can only be estimated, because the birds, particularly English sparrows, suffering for food because of dry weather flocked to the field and destroyed all the non-saccharines except red Kowliang, which was not damaged at all, and the yield of this was at the rate of 43 bushels per acre.

The saccharine sorghums were not damaged by birds, partly because they were later, and partly because the birds prefer the non-saccharines. Shallu which developed late was destroyed, while black dwarf, a sweet sorghum developing rather early, was not touched.

In the comparative drouth-resistance of dwarf, standard and upright milo, we could determine no difference, unless the time of showing heads and maturing seeds is considered a feature of resistance; we are inclined to the belief that the extra height accounted for differences in maturing season, the rate of growth being rather uniform, as were also the shape and size of the head and probable yield of grain.

In height and apparent productiveness there was but little difference in the Kowliangs, with the exception of red Kowliang, which attained an average height of about nine feet, with yield as noted above. The others varied but slightly from a height of five feet, and as nearly as we could estimate would have yielded at the rate of about 35 bushels per acre, which probably would have been a little more than the milos. All this, however, as stated before, is guess work.

In height, dwarf milo averaged about three feet; upright milo, about six feet, with standard milo intermediate.

At present our placing in rank of value for this part of Kansas is given, although we hesitate to do so because we realize that this placing is by no means final, some of the milos and all of the Kowliangs being new, while the Kafirs and some other members of the family have been well tested. Our placing is as follows: Red Kowliang, black hull Kafir, red Kafir, upright milo, white hull Kafir, brown durra, Jerusalem corn, with pencilaria and teosinte at the foot of the list.

We are not able to make up our mind where shallu should be placed, because this year with us it was not resistant of adverse conditions. With plenty of moisture it furnishes an immense amount of forage, surpassing even red Kowliang in that respect, which forage, however, is not of the highest quality. It has large, open heads, the grains of which shatter readily, but with us it outyields any of the Kafirs and is equaled only by red Kowliang. It stools freely, which causes an uneven ripening period and unequal height, which, in addition to its tall habit, would make it almost impossible to harvest the heads by machinery. The plant is a queer combination of desirable and undesirable qualities, and is liked or disliked as these opposing qualities are emphasized. It probably will prove valuable for silo purposes.

Jerusalem corn and brown durra are poor forage plants, the leaves turning brown and dying when the head matures, although they yield considerable grain.

Teosinte and pencilaria stand at the foot of the list and may safely be passed up as practically worthless to the ordinary farmer.

PRUSSIC ACID IN KAFIR

Under the direction of Dr. J. T. Willard of the Kansas Agricultural College department of chemistry, Prof. C. O. Swanson has lately completed the analysis of Kafir cane fodder which was sent by a farmer living in Ness County, Kansas. This analysis simply confirms the previous knowledge that the poisonous element which is developed by the sorghum family of plants under certain conditions of growth is prussic acid. This most deadly drug is known to be developed in about 200 species of plants. The locust, vetch, Java bean and flax have it in small quantities, while the leaves of the wild cherry, especially after they are wilted, are very fatal to cattle. Among the farm crops sorghum, Kafir and milo, with other members of the sorghum family, are likely to de-

velop prussic acid when stunted by dry weather. Normal plants of these species are entirely harmless and make excellent fodder for farm animals. The sorghums growing on very rich soil or that which has been stunted by dry weather, or the second growth sorghums, are likely to develop this poison. In the case of the Ness County sample, Professor Swanson found that the amount of poison was amazingly large. The sender, Mr. William Shepherd, of Ness City, fed a bundle of the Kafir to each of 21 head of his choicest calves and yearlings. The fodder was clean and bright, but was soon found fatal to the cattle. It has been thought that the immaturity of the cane may have had something to do with the development of the large amount of poison.

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A SOUTHERN RIVAL.

Perhaps few people in the United States realize the rapidity of growth which has been made by the Argentine Republic, in South America.

This country is situated very much as is the United States in its distance from the equator, its relation to the oceans, its climate and physical conformation and its general adaptability to high-class agriculture. It is peopled by the small class of energetic, enterprising people, excepting only that they are a cosmopolitan people with a Latin foundation, while we are a cosmopolitan people with an Anglo-Saxon foundation.

They are among the most enterprising and progressive people in any new country, and we know little of them, simply because we have no trade relations with them. Their trade goes to Europe. However, this matter is changing and a marked difference is shown in their later progress since they began buying pure breeding animals from the United States.

Not long since the Argentine was in much the same condition as the United States, in that her vast prairie country was devoted to the raising of immense herds of cheap beef cattle which were the source of much of the meat and leather supply of the old world. Like the United States, she found that her market was changing and her cheap beef was no longer in demand. Her land became more valuable with settlement and cheap steers were unprofitable. Her cattle and their products formed her only important articles of export, and something had to be done. She did this something by buying improved live stock with which to improve her native herds, and now her beef is strongly in demand, her export trade is restored and there was serious talk of shipping her frozen meats to New York to compete with the products of our own packing houses.

Here, then, is a country which has rebuilt her entire export trade and maintained an international commerce solely by reason of the foresight which made her see and take advantage of pure-bred live stock.

The United States is passing through a like period of transition, of which the only solution is more and better live stock.

Live stock husbandry is in a transition stage in America today. The time has long since passed when the cowboy and the cayuse can produce our beef supply from cattle which cost little on land which was worth less. Today there is no such land and but few such cattle, and for this we should be thankful. Both land and cattle are worth money and our present problem is to develop an animal husbandry which will fit into and become a necessary part of a finished American agriculture. The change from the range and ranch has been of the suddenest and has called for even more radical changes in our habits and methods, as well as a change in our point of view. Here is a great nation, growing at an amazing rate, with unbounded resources and yet seriously considering a possible shortage of her beef supply. Here is a great nation that has made more progress and solved more problems in a short time than most, and that of producing the needed beef supply on our farms to the profit of the farmer and the satisfaction of the consumer, will be solved. The pure-bred will solve it.

There was a time when a job in the city brought more money, if more discomfort, than a job in the country. That time has passed and the man who works with his hands can now get a better home, better wages, more of comforts and better food, with better chances for saving his wage on the farm than he can in the city. The hired man on the farm will be better off in money, in health and in morals than the hired man in the city, provided his ability is equal.

NAMING THE FARM.

It would seem that the Kansas legislature enacted no law at its last session which affords such satisfaction and the opportunity to mark improved rural conditions as that which provides for the registration of farm names.

By the payment of \$1 to the county clerk you gain the exclusive right to the use of the selected name in your county. This is all it costs, but not all it is worth, by any means.

When your farm name becomes known it stands for quality—your quality. If you breed pure-bred hogs the farm name at once suggests the quality of those hogs. If you sell butter or sausage or fruit or watermelons your farm name indicates the quality of these products.

A farm name has a distinct money value, and this may be made greater or less by your own efforts or the lack of them. All Kansas remembers the great Sunny Slope breeding farm and the quality it stood for in the animals it produced. To an Hereford man Sunny Slope meant Herefords of quality and prize-ring repute. To the Berkshire man Sunny Slope always suggested this splendid breed of hogs. And what Hereford man could ever think of Sunny Slope without thinking of Wild Tom and Java, who made history there with their fellows. What Berkshire man ever heard the name of this noted farm without thinking of the Black Robin Hood strain that made it famous?

Naming the farm does not give its products a quality. The owner does that. The quality of the animals, apples or alfalfa of the farm are the quality of the man himself, and that quality has a cash value just as the owner's personality and character is woven into and becomes a part of them.

Although the records show that the Kansas wheat crop was somewhat short as compared with previous bumper crops, there is a united belief that the quality was never better. The price is good also, but, while these things are very comfortable to think about, there is another point of view. Kansas' great crops come from large acreage and not from large yields per acre. This average yield per acre is barely holding its own and not increasing as it should and will be made to do. Kansas wheat is losing in its gluten contents, if the statement of one of the largest mill owners of the state is to be taken at face value. Weather conditions of the past two seasons may account for this statement, but the experiment station has taken the matter up to see if the gluten cannot be increased by means of plant breeding methods.

The seed grain situation is peculiar. There is a great deal of wormy corn in Kansas, and none of it should be planted without being tested, while much of it should not be planted at all. Inferior seed that was stunted or injured by stress of weather may produce inferior plants and the loss would include both a poor stand and an inferior crop. Some counties are said to need seed corn, when corn should not be thought of as the main reliance. Milo, Kafir and sorghum are the dry land corn crops and these, added to Spanish peanuts, will give a sure return in grain, hay and nuts. Of course, alfalfa should be grown wherever possible and more live stock should be kept. The manufacture of the rough farm crops into beef, pork, milk and poultry is the surest way of always finding a good market; is the sure and sensible way to make the farm pay, and is the quickest and most certain way to make money. The great plains region was peopled with buffalo and the placing of these wild cattle there may have been by design to show mankind for what purpose they were best suited.

It is the used tool that keeps bright. Same with your mind.

PURE-BRED OR SCRUB?

In our field notes is reported a sale of Poland bred sows in which 10 gilts, all members of a single April litter, sold for a total of \$862.50. This is the product of one sow in one litter, and proves her to be a valuable animal and that it pays to raise pure-bred hogs. If her second litter of the year sells as well, and there is no reason why they should not do so, then this sow takes a very high rank as a producer of wealth.

The gilts of this litter did not cost any more to raise and fit for the sale than would gilts of scrub stock, but they had the merit of being something that was wanted by the farmers and breeders who were present, and men will buy what they want. Eighty-six dollars and twenty-five cents looks like a goodly price to pay for an untried gilt, but the breeding of these pigs is such as to practically insure a productiveness equal to that of their dam, and they are cheap at the price. If they did only half as well they would still be a good investment.

Every day of the year men are demonstrating the superior worth of pure-bred live stock and yet other men will advocate the use of cross breeds and scrubs.

Every day men are realizing that the price of land has enormously increased in recent years, and "farming is not what it was," and yet they deliberately refuse to accept the most certain and economical means of making their farms produce in proportion to their value. In pure-bred live stock lies the solution.

SURE UP-TO-DATE FARMING.

Here is what our subscriber, George S. Linscott, Holton, Kan., writes: "Last fall on my farm near Bonner Springs, I erected a silo—14 feet concrete in the ground on a hillside and 36 feet staves above, making 50 feet high and 18½ feet diameter, holding 325 tons of feed, which I am now feeding to a herd of Jersey milk cows. Mr. Thompson, to whom I am asking you to send KANSAS FARMER, is in charge of the dairy matters at the farm. Last year I paid his expenses to Manhattan for the 10 weeks' farmers' course, and expected to do so this winter, but he got married last fall and now cannot leave home. I want the benefit of that training, but could not go myself."

PLOWING UNDER HEAVY GROWTH.

In plowing under a heavy growth, if the furrow is neatly turned over, much of the growth is left as a layer in the bottom of the furrow, and this prevents the passage of moisture and lets the crop suffer in a dry time; but if the ground is well disked before plowing and the growth is more or less cut up and mixed with earth, this partially overcomes the difficulty. If plowed with a moldboard of less than ordinary "dish," the furrow is left more on its edge, and when the disk follows, the organic matter is better distributed in the soil. With the use of the disk harrow it is not necessary to cover well all trash.

Daily newspapers are decreasing in numbers and farm papers are getting more numerous in the United States every year. Many of the latter are, however, but poor excuses, and their lives are not long in the land. The fact as stated is significant, and it is noticeable that more people are reading farm papers—the real ones—than ever before, and it is also noticeable that the family which reads and becomes attached to one good farm paper nearly always takes several of them. This accounts, in very large part, for the enormous progress which the farmers have made in the last few years.

When you see a razorback hog rubbing against a tree do you think he is stropping himself?

CHEAP SEEDS.

Bob Burdette used to tell of a merchant who placed a card sign in his window which read: "Eggs, 10 cents. Good ones, 30 cents."

This suggests the seed question. Tolerably good seeds are like tolerably good eggs.

Seeds have one use. They were made to grow and produce their kind. If they are good seeds they will do this, and if they are only tolerably good they only produce tolerably good results.

A bushel of alfalfa seed, every grain of which will grow, is worth twice as much as a bushel only 50 per cent of which is good. If the good seed has a record behind it, then it is worth more than twice as much.

Without considering seed of bad quality, which no reputable dealer would handle, the tolerably good seed always commands a relatively higher price than does the good seed, and the farmer who buys it loses. It requires more seed of such quality to plant a given area, and the farmer loses again. The stand secured is thinner and very uncertain, and here the farmer loses once more. The plants which come from such seed are of low vitality, or germinate into imperfect plants, which do not produce, and again he loses.

The farmer has already many handicaps under which to work—in weather and soil conditions, the possible loss of live stock by accident or disease or robbery, of his insect and fungous enemies, but he need not deliberately add another by knowingly buying cheap seeds.

Good seed cannot be sold cheaply because they cannot be produced cheaply. Care must be had in selecting the parent plants and choosing seeds from those only which are of good variety and are themselves good producers. Even greater care must be taken in the selection and care of the seeds after they are ripe. They must be cleaned of all impurities and the seeds of other plants and, finally, they must be so cared for as to be free from the attacks of mice, insects, fungous diseases or from heating or other damage in the bin.

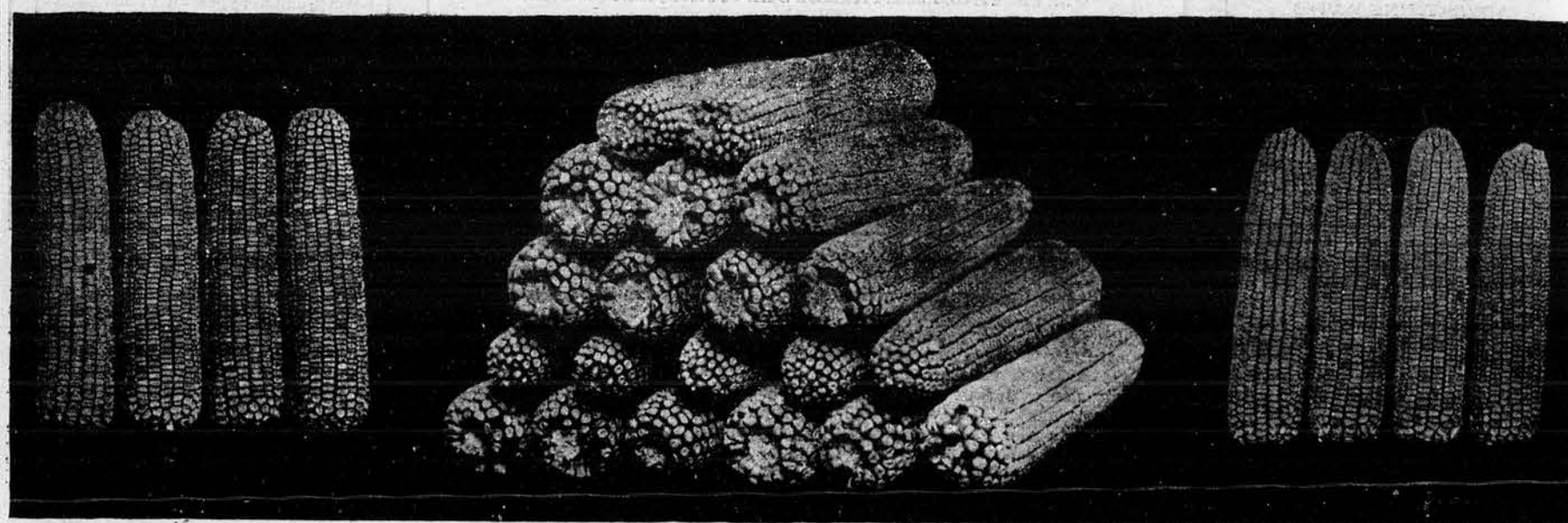
Tolerably good seed is like a tolerably good egg, and it pays to buy only the best. Stay by the reliable seedsmen, demand the best he has and pay his price. He will not rob you. He has too much invested in property and reputation to jeopardize both for the extra nickle he might get by fraud.

If the seedsman is onto his job he will know and will tell you just the quality of seeds he has to offer you, and you may depend upon him.

Is your boy your business partner? If not, you have lost an opportunity. Such a partnership will do much for the boy, but it will also do much for you, so that both are the gainers and about equally. You may learn a lot from reading, from observation and from experience, but this knowledge is of little worth unless you can assimilate it and make it useful. Learning comes best from teaching others. Your boy wants information and asks questions. You must answer them and, in order to do this, you must have the necessary knowledge. Your boy needs business experience, and this does not come through word of mouth alone. He must own and handle property and he must market produce or live stock and, above all, he must own the money for which he sold his products. Too many men give the boy a pig, allow him to feed and care for it in the pride of his possession and, when market time comes, they put the money in their own pockets.

This hurts the boy and serves to discourage him, but it does not hurt the boy nearly so much as it does the man. Your boy is the best fellow in the world, and he should become a bigger and better edition of yourself. Give him a square deal in order to give yourself a square deal.

TEST SEED CORN NOW



GOOD AS IT LOOKS. IT'S ONLY 60 PER CENT OF THE CORN CROP—THE SILO SAVES THE OTHER 40 PER CENT AND INCREASES THE FEEDING VALUE OF THE ENTIRE CROP.

TESTING seed corn is simple work. Enough corn to plant 20 acres can be tested in one day. It can be done quickly and effectually. No high-priced apparatus is necessary, although testing seed corn is a thing that should be done on every farm every spring, and a seed corn tester will in the long run save money. KANSAS FARMER issue of January 20 gave full instructions for making a germination test, but through fear that you may have destroyed that issue this brief description of the test seems warranted.

Take a box six inches deep and about two by three feet. Fill the box about half full of moist dirt, sand or sawdust. Press it well down so it will have a smooth, even surface. Now take a white cloth about the size of the box, rule it off checkerboard fashion, making squares one and one-half inches each way. Number the checks 1, 2, 3, and so on. Place this over the sand, dirt or sawdust.

Take the ears to be tested and either lay them out on the floor and mark a number in front of each or attach a numbered tag. Now take off about six kernels from each ear—not all from the same place, but at several points on all sides. Put these kernels on the squares corresponding in number to those placed on the ears of corn. Be careful not to get them mixed. Keep the ears numbered to correspond EXACTLY with the numbers on the squares of cloth.

After the kernels have been placed carefully on the cloth which covers the moist sand, dirt or sawdust, cover them with another cloth, considerably larger than the box; cover this cloth with about two inches of the same moist sand and keep the box in a warm place. It must not get cold.

The kernels will germinate in four to six days.

Remove the cover carefully to avoid misplacing the kernels. Examine them carefully. Some will have long sprouts but almost no roots; others will not have grown at all, but the kernels from ears which will produce corn if planted will have both sprouts and good root systems.

Compare the numbers on the squares with those on the ears. Put back into the feeding corn bin the ears which correspond in number to the numbers on the squares where the kernels did not grow or where they showed only weak roots.

The ears numbered corresponding to those on the cloth which showed strong signs of life are the ones to preserve for seed. Every kernel from these ears should produce a stalk, every stalk an ear.

TEST GERMINATION OF YOUR SEED CORN.

In reply to a telegram sent by KANSAS FARMER to A. M. Ten Eyck, superintendent of Fort Hays Experiment Station, he says:

"Seed corn which has been carefully saved and dried and stored in a dry place should take no injury from the extremely cold weather, but corn in the crib or shock which was perhaps not fully dry, or which may have absorbed moisture from rain or drifting snow, is likely to be badly injured in vitality,

Every Dead Ear Eliminated by Test Will Increase Yield Ten Bushels

and it will not be safe to plant such corn without first testing its germination. In fact, if such corn must be planted, it will be advisable to test the germination of the kernels of each ear, since there are likely to be many "dead" ears and others of low vitality which

can only be discovered by the ear-germination test.

"Every farmer who grew corn in 1911 ought to have selected seed ears last fall, and thus have had his seed corn stored and in good condition for next spring's planting. This is the only safe

method. But in western Kansas very little corn was matured last season, on account of the severe drouth, and unless farmers have been so provident as to have saved over seed corn from the 1910 crop, they must buy seed corn for 1912 planting. This seed corn must necessarily be supplied from eastern and northern sources.

"There will be a great demand for seed corn for western planting next spring, and the western farmers are likely to have a lot of this eastern crib corn dumped on them without testing. I wish to warn our western farmers, and all farmers, against purchasing seed corn next spring, the vitality of which has not been tested. The planter may well afford to pay a double price for tested seed corn, rather than to buy, at a low price, and plant corn, the vitality of which is not known."

HOME-GROWN TESTED SEED BEST.

W. M. Jardine, professor of agronomy, Kansas Agricultural College, writes expressly to KANSAS FARMER as follows:

"The Agronomy department of the Kansas State Agricultural College has collected for germination tests samples of corn from some 20 representative corn-growing districts of Kansas. We find that the average germination is running a little better than 85, often as high as 95 to 100 per cent. Some samples, however, are running very low in germination—such varieties as Hildreth Yellow Dent, a late maturing corn, is germinating about 50 to 60 per cent. Late maturing varieties were caught by the freeze before they were thoroughly ripe and dry last fall. In some instances these late maturing varieties were stored away in a moist condition and had not thoroughly dried out at the time the heavy freezes of January came on. Such seed corn was severely damaged and is not averaging above 50 or 60 per cent in germination.

"Farmers expecting to plant late maturing varieties, such as Hildreth Yellow Dent, also farmers living in the northern counties of the state of Kansas, or the counties adjoining Nebraska, should see that their seed is tested for germination if they would avoid planting seed that will not grow. We have a report from Mr. S. G. Trent, of Brown County, which shows that his Reid's Yellow Dent corn germinates 98 per cent—his Boone County White runs lower. In the vicinity of Manhattan, Kansas, the Boone County White variety is germinating between 95 and 100 per cent. In and about Manhattan most of the corn, save the Hildreth, is germinating high. Corn has been obtained from the different exposures of the open crib, that is, samples have been taken from the north, south, east and west exposures, and from the interior of the crib, and tested for germination. Those samples obtained from the outside of the crib where the corn was exposed to the wind and air and was thereby dried out before the January freeze, is germinating 85 per cent; that from the center of the crib, where the corn was stored with considerable moisture in it, is running as low as 35 per cent in germination. Inasmuch as 80 farmers out of every 100 that plant

BE SURE SEED CORN WILL GROW



I DO not want Kansas farmers, and especially the readers of this paper, to plant poor seed corn this year. That is the reason I am so active in the urging that you "test your seed corn." That farmers are interested is shown by the hundreds of letters received since I told KANSAS FARMER readers that I had reason to believe Kansas crib or shock corn would be poor seed for this year's planting. Be it recalled that my fear was aroused by my own test of 25 ears, each representing a different locality, in which test five ears failed to germinate.

The situation may not be quite so bad as this test would indicate, but I am sure the seed corn situation is serious, first because much of the seed planted this spring will be low in germination and also lack vitality, and second, because a part of Kansas has no seed at all. You will see from articles printed on this page that Nebraska and Missouri are each finding their seed corn very poor, and Nebraska is making an extraordinary effort to have the seed for every field tested. I can see, I think, why Nebraska seed might be poorer than Kansas seed. But I know that Kansas seed is poorer this year than usual, and I know that the testing of seed corn is a money-making proposition every year—even under the most favorable conditions for good seed.

Poor seed corn and poor planting methods costs Kansas corn growers close to \$194,000,000 per year, or about \$900 per farm family. Kansas' 10-year acre average for corn is about 20 bushels. Two 10½-ounce ears produced in each check-rowed hill, or one 10½-ounce ear every 21 inches in a listed row, will make a yield of 70 bushels per acre. Allow thirteen missing hills in each 100—which is a great plenty—and the yield would still be over 50 bushels per acre. Missing hills are due to poor seed, improperly regulated planter and careless cultivation.

Kansas corn fields have too many vacant hills and barren stalks—this due to poor seed. Kansas corn fields produce only one-third of a possible crop—less than three-fourths of a possible yield is not good enough. The difference between what we get and should have would make good seed cheap at \$15 per bushel.

Someone speaking of a poor corn stand and barren stalks has said, "Jist too many stalks and hills foolin' around" in Kansas corn fields.

A. M. Ten Eyck, superintendent Fort Hays Experiment Station, writes me: "If the selections which you made are from corn which is likely to be planted next spring, it means great loss to many careless farmers who will not take the time and trouble to test the vitality of the seed corn which they will plant."

At my suggestion a number of district schools are making a seed corn test for their neighborhoods. The suggestion came late, and many schools are closing. The first school to make a report was Hickory Grove school, Anutt, Dent County, Missouri, Robert W. Crow, teacher. He reports that only seven ears of 16 were fit for seed. This ought to show the farmers of Hickory Grove that the seed corn they plant should be tested.

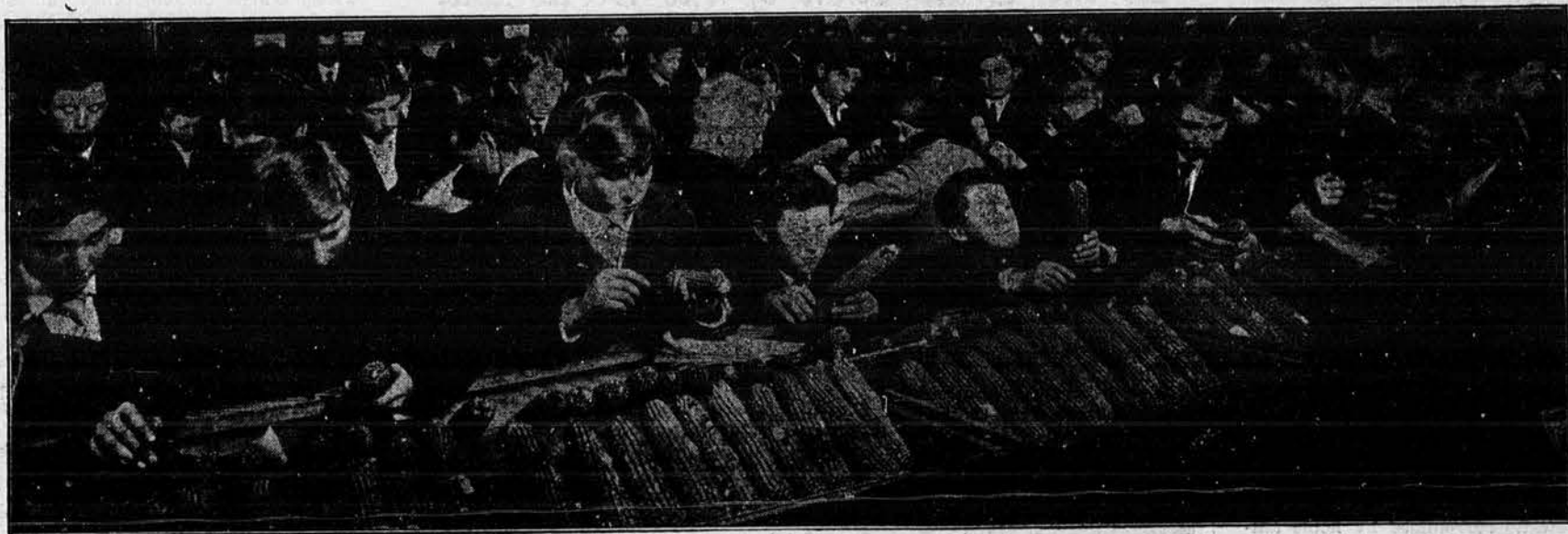
Those boys who are entering in Superintendent Miller's "Top Notch" Corn Club should use KANSAS FARMER as their guide in testing, planting and cultivating corn. Mr. Miller, you know, is director of college extension work of the Kansas Agricultural College, and he is endeavoring to interest 50,000 Kansas boys in corn growing—intending to teach their elders a lesson and in a few years double Kansas' corn yield per acre.

Kansas farmers must test their seed corn. There is greater necessity this year than for a number of years past. A greater calamity could not overtake the state than that which would result in a half stand of corn and a consequent half crop this year.

TEST YOUR SEED CORN.

A. A. Bortman

TOP NOTCHERS IN CORN



BOYS JUDGING CORN—THE MEN WHO WILL INCREASE KANSAS' ACRE CORN YIELD.

corn in the state of Kansas obtain their seed from the crib, we would advise that they make a thorough germination test of the corn from which they expect to obtain their seed.

"On the whole, our results indicate that there is no great cause for concern about the seed corn situation providing the farmer will give some little attention to the testing of his seed before planting time. Special care should be taken in selecting seed from late maturing varieties, such as Hildreth Yellow Dent. It is the variety that is showing the lowest vitality, because it was late in maturing last fall.

"In ten hours a farmer can germinate sufficient corn to plant 40 acres. There is therefore no excuse for planting seed of low germination. Every farmer has an abundance of time between now and planting time to test his seed. All that is required to make a germination test is a box some four inches in depth, varying in size to meet the requirements of the individual farmer. The box is divided into squares by means of wires placed at right angles across the top. The box is filled with moistened sand and in each square are placed six kernels from different parts of each ear to be tested. The ears are arranged in some regular order so as to coincide with the arrangement in the germinator. Living room temperature, or from 70 to 85 degrees F., should be maintained in order to secure accurate results. More seed to the acre may be planted in order to overcome the effects of planting seed of low germination, but this would result in an uneven stand of corn and the practice should not be followed.

"In connection with seed corn we would like to emphasize the importance of securing home-grown seed as far as possible. In all our tests—and a great many of them have been conducted over the state in the past four or five years—results show that home-grown seed, even without any special care having been given in its selection and breeding, have the first year outyielded introduced varieties of good breeding. Farmers should obtain their seed from as near their own localities as possible, add when this is impossible endeavor to secure seed grown under as nearly like conditions of soil and climate as possible."

MILLER, THE BIG BOOSTER.

There is entirely too much fatalism in the minds of Kansas farmers; too much of a disposition to think everything depends on the weather—on whether we get enough rain and at the right time. I am not going to say, after spending thirty seasons in the west, that much does not depend on the rains, but I am not willing to admit that the farmer is altogether dependent upon getting an exact number of inches of rain between March and September.

But why not inject a little healthy rivalry in every corn-growing community in Kansas this coming season? Let each county be the big center, and each township another, and each school district the smallest center. Who will be the "top notchers" in each school dis-

"More Rivalry Needed in Corn," Says Miller. Corn Club Organized

trict? Why not let the school officers of each rural school district fix the limit that a "top notcher" must exceed and let the teacher get the names of each and every boy in the district who will agree on or before the first of April to strive to be a "top notcher" for a single acre of corn and for five contiguous acres. Then let this teacher secure the name of each and every farmer who will enter the competition for a five-acre plot.

Suppose the school officers should fix the minimum acre limit at 75 bushels for either boys or men. Then the five-acre limit might be 70 bushels. In some districts in Doniphan County, for example, the limit might be higher, while in some western counties the limit should be as low as 40 bushels for a single acre and possibly 30 bushels for five-acre plots. Why should this not be taken up everywhere and made a part of the greatest corn campaign in Kansas?

I ask the co-operation of every county superintendent of schools and every rural school officer; of every farmers' institute, every Grange, every farmers' union, every anti-horse thief association, every commercial club, every merchant, every banker, every farmer, everybody interested in the agricultural welfare of Kansas. Does that leave anybody out? Let every teacher report to the county superintendent the names and addresses of all boys and girls and farmers who will join the "top notcher" club in his or her school district. Each county superintendent should publish the list for the whole county and should send the entire list to me. Would it not be a great thing for the state if the total number of "top notchers" in Kansas could exceed ten thousand?

Who will be the first county school superintendent to start the campaign? Who will be the first rural teacher to start the campaign in a school district? What organization, institute, Grange, commercial club or other association will be first to start the campaign? Let us have "top notchers" in school districts, townships, counties; within institutes, Granges, unions or lodges or any kind. Let every rural school board or executive committee of any organization fix and publish its minimum limit, and let everybody enter into a campaign for 50,000 "top notchers" in corn growing this year. The time limit will be April 1, 1912, for the fun, but the final limit for entry and prizes will be next fall, when the farmers' institute will be held in each county. If the Kansas Agricultural College can have the names, we can help with corn bulletins, suggestions, etc. Don't hold back until husking time, but let every farmer "get into the game," either through the office of the county superintendent or through some institute or Grange or other organization. I like to get letters, and I should be delighted to get 200 letters a day about this scheme, and after January 20

I should like to get names of 1,000 "top notchers" a day.

If you want to know more about this plan, write me.—J. H. MILLER, Director Extension Department, Kansas Agricultural College.

TEST SEED CORN NOW!

J. Paul Taggart, Clover Leaf Farm, White City, Kan., writes this timely letter:

"There is no doubt a very great number of farmers that laugh at us fellows that claim to be scientific and test our seed corn and grade it. I can absolutely prove the laugh on them every time. It has been found that you cannot tell very much about the vitality of a grain of corn by the knife test.

"First, the testing of seed corn is dollars and cents scientific. For instance, two years ago I sent away for three bushels of very fine seed corn in the ear. Two bushels were from a large seed house that makes corn its greatest issue. They have originated Diamond Joe's Big White. One bushel was from a Kansas corn breeder. I carefully tested these three bushels in my Holden's Ideal Corn Tester. I paid about \$5 for a 250-ear tester. It works fine. Well, to get back to these three bushels. If I remember aright, the one bushel showed 60 per cent germination. The two bushels showed about 40 per cent dead. I wrote to each of the growers and one willingly paid me the difference between what I paid and the price of crib market corn. I have not yet heard from the other party.

"Suppose I had planted the 40 and 60 per cent dead seed. An old-time farmer would have blamed the season, or the wet weather, or something in the ground that ate the kernels of corn for the poor stand. Anyway he would have found a way to cover up his ignorance.

"Here is my way for keeping the ears separated while testing. Instead of laying them out on a box in rows, which method invites mistakes and which would mean all the time thrown away, I take a piece of heavy cardboard and mark off the board in inch squares with a rule or carpenter's square. Number each square, commencing with 1, and go as high as there are boxes in the tester. Keep the number away from the center of the inch square so that you can run a shingle nail through the center. Lay this square over the butt end of ear and with a tack hammer nail numbers in the end of cob at the time you place the six kernels in the box.

"While I have had only about five years' experience in farming, being only 27 and town-raised, I have observed a few things about sending away for seed corn. Sometimes it proves rather risky. What governs the risk is more than I can exactly tell. I believe that there is a great deal in knowing the exact kind of corn adapted for your land. My farm is all high prairie upland and I have despaired of ever raising on it seed

corn for selling purposes. It takes good strong bottom land to do this in this part of Kansas. One year I purchased two bushels of \$4 corn from Manhattan, and ten ears at the same time from the originators of Diamond Joe's Big White. The Manhattan corn was very fine to look at and probably raised on fine, deep soil. The gathering test of measured acres, or fractions, proved that the Diamond Joe's White corn made about 10 bushels more than either the Boone County or Reid's Yellow from Manhattan. Do not think I am whooping it up for Diamond Joe's Big White Corn. I believe, except for a start, that it will pay to get seed corn for the main crop from a breeder in his own county who has been breeding up his corn for several years and who raises it on the same kind of land as your own. At least get seed grown as near home as possible.

"Lastly, I would say, test your seed corn, and do it now. This month you will have lots of spare time. In March you will be in spring work full tilt and you will probably come in at night cross and tired, and these long February nights are just the time to test all of your corn."

CORN WEAK IN GERMINATION.

This telegram was received by KANSAS FARMER from H. M. Cottrell, industrial commissioner of the Rock Island railroad:

"Reports from all sections of Kansas covered by Rock Island lines indicate that most sections are short of seed corn. Some places have enough, and few places have little to spare. Corn generally very weak in germinating and will be necessary, in most cases, to test every ear. If every farmer follows this method there will probably be sufficient seed in the state."

The Rock Island has set about finding seed corn of good quality for the farmers along its lines. It is endeavoring to find Kansas localities in which last year's corn will be fit for planting, and through the purchase of such seed will distribute it in localities where there is no corn at all suitable for seed. H. M. Cottrell, who is directing this work, knows Kansas' situation, and he is meeting it.

Professor Pugsley of the Nebraska Experiment Station, and other authorities on corn, attribute the poor condition of the quality of the seed this year to the continued drouth and exceedingly hot weather last summer, the early frosts of the fall, and the continued cold weather this winter.

In many cases the corn matured too early. In others a great amount of moisture was contained in the corn and when the freezes came the corn was frozen and the germ killed. Save in very few instances have proper precautions been taken to protect the seed corn. The result is seed corn that will not germinate.

The above reasons are given referring especially to Nebraska corn, but in the judgment of KANSAS FARMER apply equally well to Kansas, Missouri, Iowa and Oklahoma.

(Continued on page twenty-one)

Our County Breeders' Association

In Mitchell County we breed and raise many good things, such as horses, cattle, hogs, wheat, corn and vegetables; the latter when it rains. We have one crop we think the best of all; rain or shine, hot or cold, this crop always brings gladness to our hearts. This is our crop of sturdy lads and winsome lasses. How to grow this crop into happy, contented and useful men and women is a question we have given much thought. We believe the best way to answer this question is by improving our horses, cattle and hogs, beautifying our homes, and making farm life attractive.

We know that in the Industrial School for Girls at Beloit, Kansas, and in the State Reformatory for Boys, not a single inmate has grown up surrounded by the big, noble, intelligent draft horse the broad-backed red and roan Short-horn, the Hereford and the Angus cattle, and all other farm animals of the best. Knowing this, we concluded scrub stock might mean, to some extent, scrub boys and girls. Children who grow up surrounded by noble animals cannot help being ennobled; they cannot do little things or have small thoughts. Believing this and that the best way to bring about this condition in Mitchell County would be to hold annually a strictly agricultural fair, in 1902 the Fair Association was organized and the first fair held under the present organization was in September of that year. While the progress to the goal of better live stock could be seen each year, we were not satisfied, so a few years later the Mitchell County Breeders' Association was organized to work in harmony and in connection with the Fair Association. While the two associations have different officers and organizations, they are practically the same, the same men being interested in both.

When we first organized the Breeders' Association we started with seven members. We now have over a hundred active members, besides forty or fifty honorary members. When first organized the impression was that it was only for those breeding registered stock of some kind. As soon as this impression was dispelled and people knew that membership was open to all who were interested in the improvements of farm life, we gained in membership rapidly.

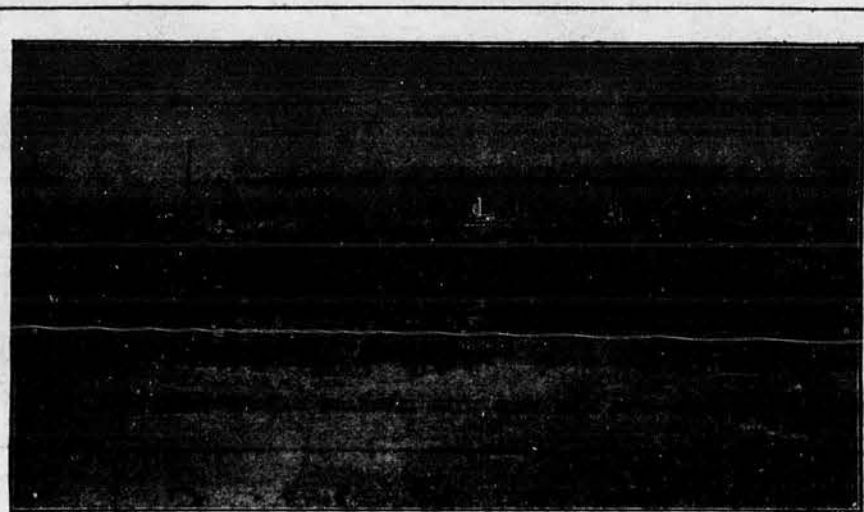
The officers of our Association are: President, vice-president, secretary and treasurer, and an executive committee of five members. We have a constitution and by-laws by which all our acts are covered as an association.

Our fee for membership is one dollar, with annual dues of one dollar. Any man, a resident of Mitchell County, can become a member of the Association by the payment of the membership fee of one dollar. All persons who exhibit at our yearly fairs may become honorary members without payment of any kind if they so desire. The names of all judges at our fairs and all foreign speakers at our banquets and meetings are placed on our rolls as honorary members. This throwing open the doors for all residents of Mitchell County may seem broad to you, but it was made so with malice aforethought. We have bankers, lawyers, doctors, and all classes of business men who are members, as well as breeders and farmers, and why not? They are as deeply interested in the improvement of breeds as the farmer or breeder; besides, the professional and business man of today may be the farmer and breeder of tomorrow.

We ask no question of any man who wants to become a member, but they are given to understand that if they wish to remain a member they must deal honestly with all. For example, on March 30, 1911, a member of this Association held a public sale of registered Percheron and French draft horses. The Association went behind this sale, writing a recommendation, which was printed in the sale catalog, signed by the president and secretary of both the Fair and Breeders' Associations. A short time after the sale rumors were circulated that all was not straight; charges were preferred against the holder of the sale, and a meeting was called of the Association. The holder of the sale was notified of the charges and requested to be present. A committee was appointed to investigate the charges. They reported some weeks later at a called meeting of the Association. Their report was accepted and Mr. Breeder's name was dropped from the

In the Eradication of the Scrub and the Elevation of the Pure-bred, Mitchell County Has Won

By JOHN M. RODGERS, Beloit, Kansas



ROWS OF STATELY PURE-BREDS LINED UP WAITING FOR THE JUDGE'S VERDICT.

membership roll. He was forced to take back a mare he had sold at his sale as a registered Percheron, which, in fact, was a French draft mare he had substituted for a registered Percheron mare that had died. He will also have to return to the Percheron Society of America medals and cups won by false entries at the Topeka State Fair and the Beloit (Kan.) State-Wide Fair in 1910. He also stands a good chance of being dropped from membership in the Percheron Society of America, so you see when a Breeders' Association goes back of a public sale the holder of the sale will have to deal honorably or lose in the end.

Now, as to the increase of live stock in Mitchell County since the two associations were organized: At the first fair held in 1902 we paid as premiums on horses \$14.90. Nine years later, in 1911, we paid in premiums on horses \$446. Premiums paid in 1902 on cattle, \$62.75; in 1911, \$210.50. Premiums paid on hogs in 1902, \$23.60; in 1911, \$127.50. In 1911 there was a decrease in hogs instead of an increase from the year before on account of hog cholera. Poultry, farm products, and all other entries, increasing at the same ratio. In 1902 you could count the entries of registered Percheron horses on the fingers of one hand. Nine years later, in 1911, nearly a hundred registered Percherons were on our fair grounds, and this not one-third owned in the county, standard-bred increasing the same as our Percherons.

We also have the largest stud of coach horses in the state in our county. In 1902 the farmer who used all pure-bred sires was the exception; nine years

later the farmer who does not use all pure-bred sires is the exception. You ask me how this change has taken place. I cannot tell you exactly. We, as an Association, have simply driven a nail wherever we found a loose board. If you would ask one of these farmers who has improved his herds why he came to do so, he might and he might not give credit to our Association.

I believe the germ of live stock improvement, like the germ of cholera, once scattered is bound to spread. You take the cholera germ and place it on fifty farms scattered over the county and watch it spread. So this improvement of live stock germ. We have gotten it spread all over our county and most of the men who have it are not keeping it bottled; their neighbors are also catching the disease.

We believe that the breaking of bread cements friendship and promotes good fellowship, so twice a year, in the spring and in the fall during our fair, we hold a banquet. After our banquet is over we talk shop. We have listened to such good speakers as H. J. Waters, president of our State Agricultural College at Manhattan, Kansas; W. S. Corsa, White Hall, Illinois; H. G. McMillan, Rock Rapids, Iowa; Col. F. M. Woods, Lincoln, Nebraska; Hon. Harry McMillan, mayor of Minneapolis, Kansas, and our own I. D. Graham of Topeka.

At our last banquet, in September, over 300 men and women were seated at our tables. Our banquets are usually served by some society, generally by the ladies of some church. Our last banquet was served by the Ladies' Commercial Club of Beloit. It is wonderful what interest these banquets create.

Men in all walks of life, with their wives, seated at our tables, all interested in the improvement of the farm and farm life.

The next day after our last banquet a lady who had attended the evening before, but who had been reared in the city and knew very little of farm life, met me on the street, said she was very much interested, and had never known before how much there was to agriculture. She wanted to know a good farm paper to subscribe for. You see the germ will spread.

As secretary of the Association I am making a mailing list for the use of all of the members who wish to hold a public sale of registered stock. There will be a list for every breed of horses, cattle and hogs owned in the county. This list will be made up of bona fide purchasers of registered stock, taken from the sale publications in our several farm papers and from names furnished me by breeders of parties they had sold registered stock to at private sale. The secretary also has a list of all members who have registered sires or breeding stock for sale, and is glad and willing at all times to assist both buyer and seller.

You all know how serious the hog cholera has been in the past year. We are taking this up as an Association. You also know how hard it has been to secure serum to immunize our hogs. One of our members went to Manhattan to find a reason why we could not get serum to vaccinate with. He came back and reported "short of funds," but if we would, as an organization, stand good for 75,000 cubic centimeters, the college would send a man to Kansas City to buy a car of hogs and ship to the college and we could get our serum in a little over three weeks. It didn't take ten minutes before ten members stepped forward and made themselves responsible for over \$1,000 worth of serum. This serum has been used, or nearly so, and some of our best herds of registered hogs have been saved, one herd consisting of over 200 head.

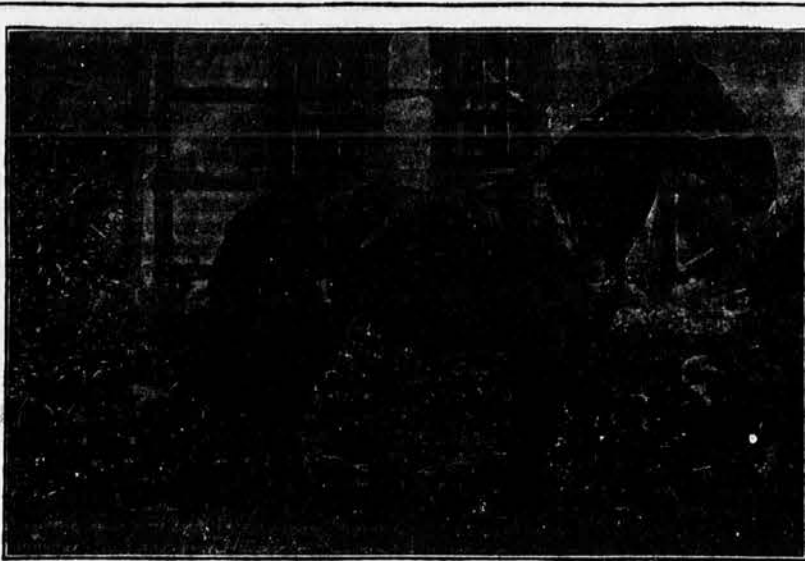
I have told you a few things we have done in the past; now I want to tell you a few of the things we expect to accomplish in the future. We are going to stamp out hog cholera in Mitchell County. We are at present raising among the breeders of hogs \$1,000 which will go to Manhattan for serum to be stored for future use. When we have sufficient stored so all can use it in immunizing their hogs we will see that the law is enforced; that not a sick hog is shipped to scatter the disease along the railroads, and not a sick hog is hauled by wagon or driven along our public highways.

Some hog raisers will probably not want to immunize, but when they find that they cannot either sell or ship their sick hogs, they will be clamoring for serum.

We are going to encourage the teaching of agriculture in our county schools. This will have effect in more of our boys and girls attending the State Agricultural College. We are going to keep driving nails until we have practically pure-bred stock on every farm in Mitchell County.

A successful breeders' association can be described in two words—work and harmony. If you expect to have a successful association, you must work. It has been said that "Some men do large things, but the way in which they are done is small." Whatever a breeders' association does, whether large or small, should be done in a big, straightforward manner. The word "harmony" in any association means nearly all. It means that kindly feeling we should have one for the other. It means the spirit to excel if you can, but if defeated, take it like a man.

I want to give you an illustration of what I mean. Three years ago at our fair there were three exhibitors of Hereford cattle. One had an exceptionally good cow in the aged class. When one of the other two showed up with his cow she was also an exceptionally good one, and finally was given the blue ribbon. Did Mr. Man who was defeated sulk and say the judge was prejudiced and didn't know his business? Not in this case. Along towards night when the championship between the different breeds of cattle was to be judged, I saw Mr. Defeated Man, coat off, sleeves rolled up, with soap and water, comb and brush, making the toilet of the cow (Continued on page sixteen)



WISCONSIN STALLION IN PUBLIC SERVICE. THE KIND MITCHELL COUNTY IS "AFTER."



This Car for \$900 Means Much to Practical Farmers

Equipped with Self-starter only \$20 extra

THAT the farmer needs a car in his business is no longer an argument. It enables him to get more out of an hour's work than ever before. It makes everything on or around the farm move faster. So, if more work can be accomplished in any given time, more clear profit is bound to result.

But the farmer need not pay more for an automobile than his work requires. It should be bought, first of all, as a utility—not as an ornament or vehicle of pure pleasure. It should be bought to work for him—not to amuse him as, for instance, a piano does. After the work is done you can have all the fun in the world with it.

This Overland (Model 59) at \$900 is absolutely all anyone would want in a car. It will make your whole family happy. Compare it with any \$1250 car on the market, and you'll find but little difference. You know that most of the \$1250 cars are of the 30-horsepower type. This \$900 car has a 30-horsepower motor. Seats five people comfortably. It is big and roomy. Has a staunch pressed steel frame, selective transmission with F & S annular bearings—the best made. Has strength, power and speed—more than you will ever care to use. The body design and finish is simple, graceful and beautiful. Upholstery is

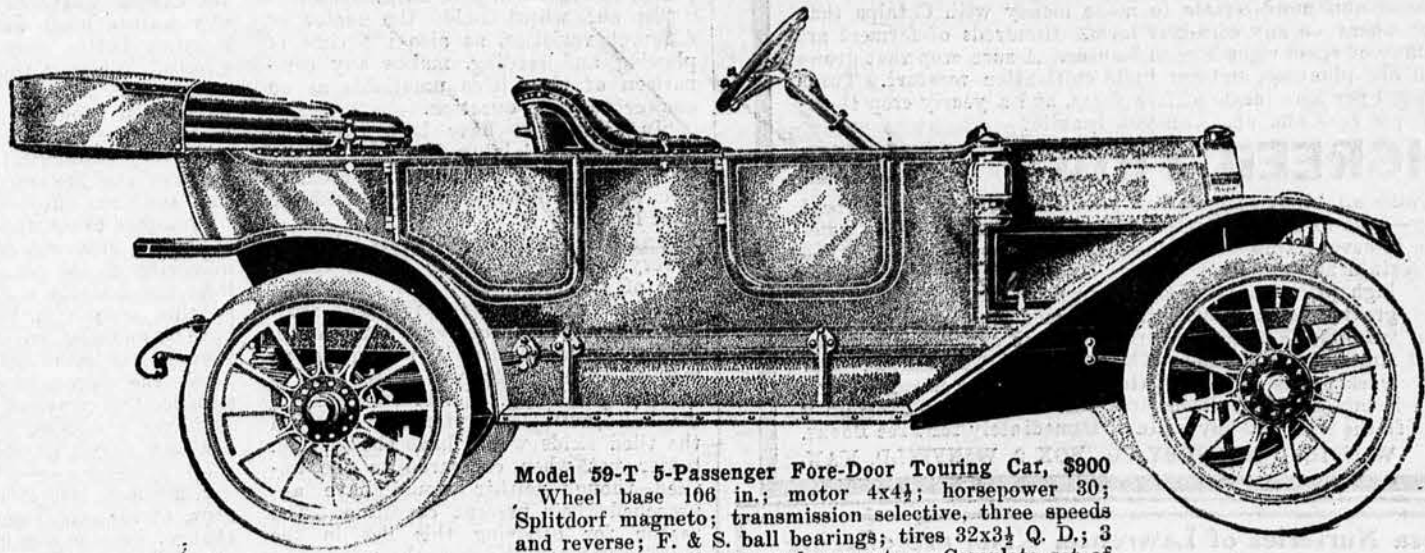
of good leather, hand stuffed with fine hair. In every respect it is a thoroughly high-grade machine.

If you wish we will equip the car with a self-starter for only \$20 additional. This starter is the most practical made. On continuous tests, under all conditions it will crank a car ninety-nine times out of a hundred. It is simple and safe. All you have to do is to pull a little lever and your motor spins. Use the same gas tank as you do for your headlights.

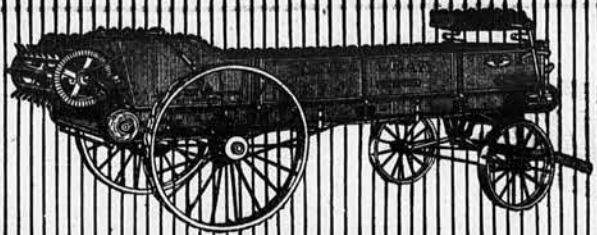
And it is a fact that no other maker in the business can build this car and sell it at this price without losing money. This is due to our enormous manufacturing facilities—the largest in the world. The manufacturer who turns out but 5,000 cars must have greater production costs, for each car, than we who make 25,000 cars.

We have published a very interesting and simply written book which explains why the largest automobile factory in the world can give more car for less money than the small factory. Write for a copy. It will show you how to save money when you buy a car. This also explains in detail the remarkable value of this \$900 touring car and illustrates with handsomely colored plates the complete 1912 line. Write and ask for copy R32

The Willys-Overland Company, Toledo, Ohio



Model 59-T 5-Passenger Fore-Door Touring Car, \$900
Wheel base 106 in.; motor 4x4; horsepower 30;
Splitdorf magneto; transmission selective, three speeds
and reverse; F. & S. ball bearings; tires 32x3½ Q. D.; 3
oil lamps, 2 gas lamps and generator. Complete set of
tools. Mohair top and glass windshield, \$50 extra.



Don't Let The Soil Starve

YEAR after year, your crops take nitrogen, phosphoric acid, and potash out of the soil. These elements are absolutely necessary to the growth of plant life. What are you doing to replace them?

You can keep your soil from starving by spreading fresh manure, evenly, in proper quantities. Manure, spread in this way, puts back into the soil the very elements the crops have taken out. To spread manure evenly, you must use a manure spreader. When buying a spreader get a good one.

IHC Manure Spreaders

have proved their quality. Owners like IHC Spreaders because of their simplicity, strength, durability, and light draft. The superiority of these machines is due to the following constructive features:

The method of transmitting power from the wheels to the beater is simple and direct. There are no unnecessary parts to wear. The beater is larger in diameter and the teeth are long, square, and chisel-pointed. By using this style of tooth, the manure is thoroughly pulverized and is thrown out before it wedges against the bars. This reduces the draft.

The apron is supported by steel rollers and the slats are placed close together, so that manure does not sift between. The steel wheels have ample strength to carry many times the weight they will ever be called upon to bear. The rims are flanged inwardly to prevent cutting and rutting of meadows and accumulation of trash.

Corn King Cloverleaf Kemp 20th Century

are machines that will merit your heartiest approval. IHC manure spreaders are made in three styles and many sizes, for field, orchard, and vineyard.

Get complete catalogues and all information from the IHC local dealer, or, if you prefer, write direct.



International Harvester Company of America
Chicago (Incorporated) USA

IHC Service Bureau
The Bureau is a center where the best ways of doing things on the farm, and data relating to its development are collected and distributed free to every one interested in agriculture. Every available source of information will be used in answering questions on all farm subjects. If the questions are sent to the IHC Service Bureau, Chicago, they will receive prompt attention.



THESE TWO BOOKS SHOW NEW WAYS TO GREATER PROFITS

These two great books contain a lifetime's experience in growing pure-bred trees. We are the originators of **PEDIGREED NURSERY STOCK**, and are the largest producers of it in the world. "Progressive Horticulture" tells about that. Our Catalpa Book tells fully about

CATALPA SPECIOSA

It is easier and more certain to make money with Catalpa than with corn or wheat on any corn-belt farm. Hundreds of farmers are doing it. Many of them right here in Kansas. A sure crop that grows forever with one planting, and but little cultivation to start. Turns off \$150 to \$250 per acre inside of five years, and a yearly crop thereafter of \$40 per acre and up. Can you beat it?

PEDIGREED FRUIT TREES

We furnish all kinds (apples and peaches especially), pure-bred as to variety—true to name—pure-bred as to performance. Why gamble for three to seven years to see what fruit trees will produce, when you can be certain at the start? A pure-bred animal is bought for a high price for three or four years' use, because of the greater value of the get. Pedigreed fruit trees are more valuable than non-pedigreed, because of the assurance of first-class fruit and **UTMOST QUALITY YIELD**. Our work proved through fifteen years in our nurseries, and in hundreds of patrons' orchards. If you prefer certainty in the trees you buy write us immediately for Free Books. **WINFIELD NURSERY CO., BOX 2, WINFIELD, KAN.**



The Griesa Nurseries of Lawrence, Kan., are offering this spring an unusually fine and large stock of Fruit and Ornamental trees. Write at once. Catalog and Price List free.

Getting a Start in Sheep

By A. R. SNAPP, Before The Kansas Sheep Breeders' Association

To get a start in sheep is easy. Good western ewes can always be bought in the fall for about \$3 a head, and good high-grade natives bred to registered rams for from \$7 to \$10 a head. To handle after getting them is not quite so easy, although it is much easier to handle sheep than any other farm animal.

The hardest thing seems to be to get the desire to handle sheep. At least it seems so here in Kansas, where the cur dogs outnumber the sheep. By the way, with all due respect to Secretary Curn, why should those disgraceful figures as to the relative number of sheep and dogs be so often published to the outside world? They only have a tendency to frighten some timid souls who might otherwise raise sheep. Our honorable secretary can not conscientiously advise anyone to start in sheep under present conditions. This the writer thinks is not good advice. Let the sheep men of Kansas go after their legislators and get some good dog laws, like Ohio for example, and in the meantime and at all times let every sheep man bell his sheep; at least one bell to every sixth sheep—the bells are cheap—to keep away both dogs and coyotes in the daytime. At night I consider it absolutely necessary to corral them near the barnyard.

As for profits, just one word: I consider sheep just as essential and just as profitable as chickens, and for the same reason, viz: they are scavengers. What good feed they eat for about ten months in the year would otherwise be wasted and what weeds they eat would otherwise be a positive nuisance.

The fertility which they scatter and the good they do by destroying weeds in the orchard, pasture, corn field, stubble fields, etc., will pay for their keep, leaving both the wool crop and the lamb crop clear profit. This may seem extravagant to some, but it is the writer's experience with a small flock of 25 to 50 head of ewes with their lambs on a half section farm. In one pasture they have eaten so much of weeds and brush in the last three years and have so fertilized the ground that the grass has thickened—it is a better pasture than before the sheep came, and this with the same number of cattle as usual. Of course young horses and mules can not be in the same pasture with sheep.

Before starting in sheep it is necessary to prepare for them. They must have shade in the summer time and shelter from the cold rains and driving snows. They will choose to lie out of doors in the coldest weather, provided it is dry and not too windy.

Change of pasture is necessary to keep down the stomach worms—the greatest bugaboo of the sheep man. This is easy with a small flock. Let them clean out the orchard in June, then

the stubble fields in July and August. This calls for woven wire fence 28 inches high, with three barbed wires, which makes a good general purpose fence. But do not buy a square mesh fence for sheep. It catches their heads and holds them like a death trap. A fence with stays 12 inches apart and closely woven horizontal wires is the best for either hogs or sheep.

Every good farmer knows that early pigs and early chickens are much more desirable than late ones. February and March are the best months for the lambs to come. This calls for warm dry quarters and close application on the part of the shepherd. If a lamb once gets of its mother's nourishment it is half raised. Young ewes with their first lambs need to be watched closely. The older ewes very seldom need much attention.

Alfalfa hay is the one great feed for all classes of sheep. And do not feed corn to the breeding stock, especially to pregnant ewes or ewes with lambs at their sides, for it will be sure to cause trouble; a handful of corn to one ewe will cause the garget, or milk fever, which, in the writer's experience, is a terrible thing. Feed oats or bran with a little wheat screening, or perhaps barley, for grain. After corn is out in the fall they will run in the stalks nearly all winter long, with perhaps a taste of alfalfa occasionally. It has been the writer's experience with a flock of high-grade Shropshires that they are very easy to keep in very good shape—the only difficulty is to keep the breeding ewes from getting too fat.

As for shearing only a small flock, it will pay to buy a hand machine costing around \$10. After shearing it is almost necessary to dip both ewes and lambs. The sheep tick is a despicable insect, but easily killed by dipping after shearing.

In conclusion let me repeat, sheep are sure money makers and easy to handle. Any good farmer who is successful with other live stock can handle sheep successfully. There is no use hanging back and saying, "I don't know anything about sheep." Anyone with good average common sense can start in a small way and grow in experience as his flock grows. If one dislikes the smell of sheep he had better leave them alone, but the writer thinks they are the gentlest and altogether the most docile animal about the farm, as well as the most profitable.

Here is one last word: As a solution of the much discussed question, "How to keep the boy on the farm," why not try sheep? A youngster who takes and raises an orphan lamb for his very own can not help being uplifted by its gentle influence. His natural wild boyishness, without which no boy is really genuine, will be toned down and directed in right channels.

Tile Drained Lands Again

Answering several subscribers who have made inquiry regarding the results of tile drained land, this letter from L. S. Edwards, manager of the Deming ranch, Oswego, will give information:

"In our wheat fields the factor of different varieties, as also the time of plowing and seeding, makes any comparison of the yields unreliable as an answer to your question.

"In alfalfa we have both tiled and untiled land adjoining, but that on the tiled land is of more recent seeding. This gave a slightly larger yield on the tiled land.

"In the corn fields, however, there is a very marked difference in the condition of the crop, while the cultivation has been the same, viz. frequent shallow cultivation throughout the drouth. While the difference is not quite so marked as in a very wet season, yet it is very gratifying. I feel sure that if we had given less intense cultivation the tiled fields would have shown even better yet when compared to the untiled, though neither would have approached their present condition. The reason for believing this lies in the more friable condition of the soil in the tiled fields. Land that was formerly wet and heavy gumbo and has been tiled five years, is approaching in working quality and productivity our natur-

ally-drained loam soils, which were formerly the only ones to be depended upon for a crop, wet or dry.

"Our tiled gumbo land then has stood the drouth nearly as well as the naturally-drained loam, and gives promise of a much better crop than the untiled gumbo. Whether this is due to the retention of moisture or to the better mechanical condition I cannot say, but the results are there. Theoretically the improved mechanical condition should increase the moisture-retaining properties, and thus affect the crop.

"Another thing which would affect the crop both in a wet and dry year is the unlocking of the plant foods which follows the draining and aeration of soils; as this section is cumulative, it may have something to do with the good showing the tiled fields are making.

"Be the reason what it may, our experience this year, as well as wet years, indicates a decided advantage in tiling our wet, heavy, gumbo soils."

Some men lose money playing poker, some at roulette, some on the stock exchange, while others lose it keeping poor cows or by living in a community where they don't "give a darn" for good roads. The last named have to work the hardest for their loss. Yet there are lots of ways of losing money

GALLOWAY'S BEST

Engine Advertisement!

Written By His Customers



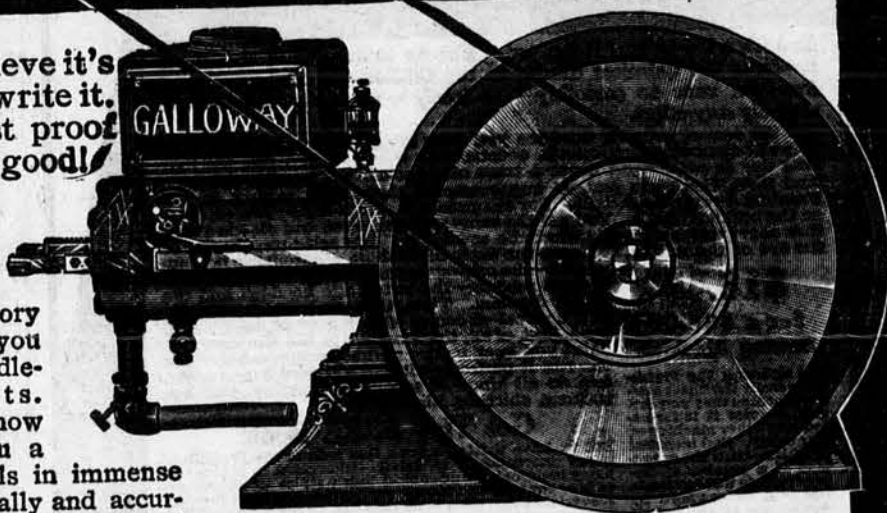
I LIKE this advertisement. I believe it's the best I ever used. I did not write it. My customers did. It's the best proof that Galloway's pudding tastes good!

I've told you many times that I can and do save you \$50 to \$300 on the price of an engine, depending on the size. I've told you many times about Galloway's quality.

I've explained how my direct-from-factory plan saves you all the middlemen's profits. I've told you how we make you a

further saving by buying raw materials in immense quantities—by manufacturing economically and accurately on automatic machinery, all parts standardized and interchangeable—by taking a small profit on each engine because we sell so many. And I've offered you my Galloway on 30 days' free trial, backed by my 5-year guarantee and \$25,000 Legal Guarantee Bond.

Now, I'm going to let my customers tell you some facts. What they say tells the true story better than if I were to personally write you 10 pages right here. They've tried my engine under almost every condition and in every way.



CAUTION—Look Out! There are three kinds of engines offered on the market today. First, the too cheap kind which you don't want at any price—they won't and can't last—have light fly wheels and when in operation jump all over the floor. Such engines are offered by merchants and jobbers, some of whom go under the name of manufacturers, but who have no factories at all. Second, the too high priced kind which have got to come down, because the value simply isn't there. Third, the just right kind, like the Galloway, which has all the quality of the too high priced kind and on account of being sold direct, all sizes from the smallest up to 15 H. P. are sold at very low prices.

YOUR BROTHER FARMERS SAY!

Saving On Price

Gustave Grosz, Willa, N. D. The Galloway is the best engine I ever saw and I have had five different ones. My 10-year old boy starts it in half a minute in cold weather. It has more power than you recommend.

A. C. Anderson, Spencer, Iowa. The Galloway engine has given good satisfaction and is so simple in operation and is never getting out of order. I would rather have it than some other engine costing over \$125 more.

S. R. Harman, Napoleon, Ohio. My big Galloway engine cost me \$287 less than the people ask.

Fred Carpenter, Alcester, S. D. It is as good as the \$350 engines here.

Joe Blizard, Perth, N. D. The Galloway is as good as other makes that cost about one-third more and a great deal simpler.

Alex McLacklan, Argyle, Mich. It's a dandy. Some of my neighbors got bit on other engines by paying \$400 for a 9 H. P. and \$450 for a 10 H. P. I like your machine dandy.

C. R. Munsell, Wilburn, Ia. Anyone wanting a gasoline engine can't go wrong in trying a Galloway—is my advice to any inquiries I have here at home.

C. A. Ostrade, Pekins, Okla. I made a careful study of gasoline engines for some time before buying and at last decided on the Galloway 5 H. P. because it is best and the price is right.

How Much for Repairs?

E. F. Ritz, Washta, Ia. I have used the Galloway 5 H. P. engine since March 1, 1909. Have used it almost every day. I have not yet paid a cent for repairs.

H. M. Sheldstad, Brandt, S. D. The engine has paid for itself. It has not cost me one penny for repairs and it is as good as the day it was new. I would not sell it at any price if I could not get another Galloway. They are the best I have seen, to my notion and I will have a good engine, as long as I need one. I saved about \$200 by buying of you.

A. P. Wilson, Fort Lupton, Colo. I have not had any trouble with my Galloway since I started it last March. Has never cost me one penny for repairs.

Is the Galloway Simple—Reliable—Economical?

E. L. Plummer, Converse, Ind. The Galloway engine paid for itself the first year. The engine has not cost one cent for repairs and seems to be as good as new.

Chas. H. Faris, Lerna, Ill. Concerning the 5 H. P. Galloway engine bought of you some time ago, will say that it is all you claim for it and has not been found wanting in any respect whatever. It is simple, has plenty of power, and is very practical in every respect and I cannot understand why any person that is competent to run a wagon on the farm would not be competent to run this engine to do any work that it would be able to do. I set this engine up at my place and started it going and it has not cost me one penny for repairs yet.

Henry Foltz, Delterich, Ill. I installed one of your 5 H. P. engines in my shop last spring and must say that I am more than pleased with it. It is a smooth runner and puller and has never refused to run. Have not had any expenses—not a penny for repairs. There are several different makes of engines in our town, but the Galloway beats all.

Henry H. Olsen, Hancock, Ia. In regard to the 5 H. P. Galloway engine I purchased of you a year ago last fall, I am more than pleased with it. Everyone who sees it at work says it is a dandy. Has not cost me a cent for repairs.

Fred Ruthardt, Mt. Vernon, S. D. I must say the engine is alright. I saved about \$100 in buying from you.

Jno. Higginbotham, Miami, Okla. When it comes to talking about gasoline engines, there is no other engine made that comes up with the Galloway. I never had a minute's trouble with my engine and have now run it about six months.

Will Weigel, Piandreau, S. D. I am well pleased with the Galloway engine. Have had no trouble whatever with it. Julius Tufte, Fergus Falls, Minn. I am using it every day and have not had any trouble with it. I am more than pleased with it. Could never have gotten a better one.

W. A. Paul, San Angelo, Tex. My engine has given perfect satisfaction. In fact, I consider it the best engine in the country. It is so simple to run.

Roy T. Evans, Elgin, Minn. I wish to tell you that I think the 5 H. P. Galloway engine is a dandy. It is the simplest and smoothest running engine I ever saw.

John Hermacek, Blender, Wis. I have seen quite a few gasoline engines, but the Galloway starts the easiest of all that I have seen.

C. H. Klingsporn, Pine Island, Minn. The Galloway is easy to start and operate. It is the easiest starting engine in cold weather that I have seen.

W. A. Hopper, Toronto, Kas. I think the Galloway engine is the best and simplest engine made. I have been running ours for nine months and I think I ought to know.

SPECIAL NOTE: There are hundreds of other letters like these in my Big Free Engine Catalog. Don't you want to read what men like yourself have to say about Galloway? Mail coupon or just a postal—now!



Don't you want my great engine book and special engine proposition? Don't you want to compare the Galloway with others before you buy? You owe this much at least to yourself. Just a two-cent stamp sends me the coupon—or one cent for a postal—and my book and offer come by return mail. And if you buy a Galloway you'll save from \$50 to \$300, according to size of equal quality. Is it worth while? I'll also send, without any further effort on your part, my new, handsome and original catalog on the Galloway General Line. Write me today without fail.

WM. GALLOWAY, President
The Wm. Galloway Company
385 AD Galloway Station Waterloo, Iowa

Just a Word About My Special Offer To You and 9 Other Men or More in Every Township.

All I ask is that you be fair to yourself. You want the best engine for the least money. Don't let any dealer influence you. They're all knocking Galloway because he lets the farmers keep the Dealers' and Agents' and Middlemen's profit. We can't blame them for being sore but you can't afford to pay \$50 to \$300 more for your engine just to please them. That money is as good to you as anyone else.

Now listen. I want to place 10 or more Galloway engines in every township in this country. To do this I'm making a special offer—cutting my price to the bone. I can afford to do this because one Galloway engine itself always sells another one and in many cases from 6 to a dozen. Their high quality and low price appeal to everybody.

Wm. Galloway, President,
The Wm. Galloway Co.
385 AD Galloway Sta., Waterloo, Ia.

Please send me—absolutely free—the following:

1—Galloway's Magnificent New 64-page Engine Book in Four Colors, and Special Offer to 10 men or more in every township.

2—Also your new 1912 different and original, 3 color General Line Catalog.

3—Galloway's Special New Folder, giving "Inside Facts" showing what dealers pay for engines and what they sell for.

State.....

County.....

Town..... R. F. D.

Name



Takes but a minute to run that Seam on the FRANKLIN Sewing Machine

And it's a joy to run it up, too. For no matter what the fabric is—from the daintiest dimity to the thickest of corduroys—the Franklin runs so smoothly—so freely—so easily that there's scarcely any effort.

It's the easiest running machine you ever imagined—ball-bearing and so well-balanced and simple in construction that you can sew the live-long day in ease—with never a trace of a backache.

And then, there are endless improvements that make sewing on the Franklin a veritable delight. For example, the arm is high—you can sew on the bulkiest goods. You get the same straight, even and elastic stitch that never rips, no matter what the sewing is. It's self-threading up to the eye of the needle. There's the extra big bobbin—automatic bobbin-winder—the self-setting needle and the automatic tension release—the automatic head-lift and the roomy drawers. Then, the belt is on the outside of the wheel—it comes off and goes on easily. And then, best of all, the Franklin is the simplest machine you ever used—nothing complicated—you can run it perfectly without a personal instructor, and do all kinds of sewing—hemming, ruffling, tucking, shirring, binding, etc.

\$18.45
for a \$65.00 Sewing Machine

But although the Franklin is easily the finest sewing machine that you can buy, in price it is far below any other machine of its quality. The identical machine—with the exception of a number of improvements we have made—is sold everywhere by dealers and agents for \$65—yet our price is \$18.45. Think of that—a \$65 sewing machine, guaranteed for 20 years, for \$18.45. Write for free book today and save from \$50 to \$45 on your sewing machine.

Get This FREE Book

But we have written a book that tells of the Franklin's many conveniences in detail—illustrates in colors the many handsome hand-rubbed finish styles of cabinets—tells of our iron-clad 20-year guarantee—and our 3-months free trial offer. It's a book that you ought to have if you ever expect to put a dollar into a machine, for it not only tells of the Franklin, one of the finest sewing machines made, but also of our Minnesota sewing machines, ranging as low in price as \$5.95. This book is free—write for it today. Just a postal saying "Mail me your Sewing Machine Book"—and the book comes free. Address

Sears, Roebuck & Co., Dept. 564 Chicago, Ill.

This Spreader Costs Less Per Year Than Any Other

YOU must figure the cost of a manure spreader by the years of service and the kind of service you get out of it—adding the cost of repairs. It's the cost per year that counts. That is the basis on which we build the Great Western. It costs more to make a Great Western than any other spreader, therefore it may cost you a little more at the start than one of the "temporary," troublesome, light weight, heavy draft spreaders. It is the few extra dollars in quality that has made the Great Western known everywhere as the spreader that stands the strain.

The Great Western is used and endorsed by 100,000 practical farmers—also by the U.S. Government and State Experiment Stations.

We guarantee every Great Western Spreader to stand 50 per cent more strain and require 50 per cent less repairs than any other spreader. Write it in the order if you want to. We know that there is more oak—hickory—mahogany wrought iron and steel in a Great Western than in any other spreader.

Great Western

The massive construction of the Great Western makes it the lightest draft spreader. You can't put on a load heavy enough to make any part "give" or "bind." And it is not the weight as much as the "binding" that causes draft. Figure it out along this line and you'll soon see why the ordinary spreader uses up horses, causes more trouble and soon costs more for repairs than it is worth.

The Great Western has fewer parts, too, than any other spreader. That means less friction—less draft—less wear. It is the original Endless Apron Spreader, easy rolling because it has three sets of extra large rollers, positive feed constantly; absolutely automatic, simple, mistake-proof.

Write For The Proof

Don't let anyone persuade you to buy a spreader on snap judgment. Read our big spreader book first and learn how to really test a spreader. See the letters from those who know. You want this book whether you buy a Great Western or not and we want you to have it. Send name today. Address

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Is made of an exceptionally good grade oak-tanned leather, in the style shown. It is very popular, both for farm work and city teaming, made to prevent sore backs, warranted to stand up under general farm work, and to give splendid service. Our guarantee of satisfaction or money back goes with every set. You wish to do so, we will allow 30 DAYS FREE TRIAL to show our confidence in this harness, which we guarantee for one year from date of purchase.

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"THE HOUSE THAT SAVES YOU MONEY."

THE FARM



Last week I attended the Berryton Grange farmers' institute, and this week attended the institute of the Watson Grange. The Grange appears to me to be well established in eastern Kansas, but in central and western Kansas, where there are few Granges, I cannot help but feel that the people of those sections are missing much in the social and intellectual development of their respective communities. About Topeka, where the Grange is a well developed institution, I can see results, I think, which are directly attributable to the Grange organization. In these localities I see more real good farmers than in localities where the Grange does not have a fast hold. My attendance at these meetings convince me that those farmers of localities within the influence of the Grange are better posted on and are practicing the best known methods of agriculture to a greater extent than in localities where the organization is not known. I believe there is a good reason why this is so.

The Grange, in the first place, is a secret organization, and its principles and methods of operation are attractive to its members, resulting in arousing and maintaining an interest which commands attendance. The Grange meets as a lodge once per month, and after disposing of its business according to its ritual, time is spent in discussing those questions which pertain to the best methods of farming, feeding and caring for live stock, etc. It is the constant attendance, the frequent meetings and the frequent and persistent discussion which is responsible for the better understanding and the solution of farm problems. It is around the Grange organization that this interest centers and which commands the attendance month after month. This is the way the situation presents itself to me. I am not a Granger—wish I was—and may be mistaken, but I feel justified in the above conclusion.

For ten years I have attended farmers' institutes in nearly every county in Kansas. The farmers' institute of today is a vastly more important meeting than the institute of ten years ago. In the early day it was a matter of the speaker "telling" his hearers—today it is a matter of "discussing" his subject with his audience. The institute of today is a great improvement as a factor in the public welfare as compared with ten years ago—but the institute organization which meets only semi-occasionally is not the power of the Grange meeting. An occasional meeting does not have the effect of the monthly meeting. A monthly meeting for strictly institute purposes in most localities is a failure. It requires something like the Grange to command the attendance and perpetuate the interest. I am confident the Grange is worth while in many other respects. Look into this Grange business and get an organization in your community. It is strictly a farmers' organization and beneficial in many respects.

At each of the two meetings mentioned above were a dozen men as capable of discussing my subjects as myself or any other speaker they could have imported. This applied to practically every subject under discussion. I could not help but notice how each man was running to a specialty. In one case it was dairying, and this man has a herd of pure-bred Jerseys, a silo, and plenty of alfalfa and everything else allied with good dairy practice. Another man is growing pure-bred hogs and selling for breeding purposes, while another was producing pork. The latter grew only well-bred hogs, but his farm was devoted to alfalfa hog pastures and corn sufficient to fatten the hogs he grew. These hog men were each well posted on the use of serum as a preventive for hog cholera, and each were firm believers in so feeding and caring for the hog that he would at all times be vigorous and healthy and consequently as resistant to cholera and other diseases as is possible. I talked with

another farmer whose hobby is corn. He has tested his seed corn for years—says he has doubled his former yield and produces almost three times as much per acre as the average yield of his community. He looks toward establishing a seed corn business. Another man was a sheep breeder, another a horse breeder, and another called himself a mule farmer. From this will be seen the tendency to specialization in two communities and the exemplification of the gospel I have been preaching. Every farmer is by nature adapted to some one thing, or two things, to a greater degree than to other things. What is your adaptation? Discover it and go at it. If it is in some phase of farming or along live stock lines, the single idea will be plenty large to command your best thought and energies.

At Berryton I talked about feeding the dairy cow. This subject, as old as the ages, is ever new. The proper feeding of the milch cow, using the roughage grown ten years ago, was quite a different problem then as compared with now. Ten years ago I spoke on the same subject at Berryton. Then it was a matter of making a balanced ration from Kafir, sorghum, millet, prairie hay, etc., for roughage. It required charts of figures to demonstrate the point. Today the problem is no problem at all. Kansas gives the answer in a language all her own, viz., alfalfa hay and corn or Kafir, or silage and alfalfa hay. This serves to illustrate how times have changed and what expert knowledge, investigation and experience has brought to us in that time.

At Watson this week I talked about the silo. The country is hungry for information about silos and silage. On this question as much, if not more, is being written than on any other subject. I had nothing really new to say about silos and silage, but people are looking for the fellow who at first hands can tell them something about the structure and the actual feeding of the product. The thing which delays the introduction of the silo is the first cost. It is not, in fact, large, but it so seems because the small farmer who most needs it is not accustomed to making an investment of such proportions.

The business man who has a capital stock of \$5,000 to \$7,000 will not hesitate one moment in making an investment of \$250 to \$400 in a machine which will increase the efficiency of his plant. He will take his chances on failure. He has been trained in a school of experience different from that of the farmer. The farmer is conservative, and so should he be. It is conservatism that causes him to hesitate in taking many an advanced step. I do not blame him for it either. But it does seem to me that he is not open to conviction as he should be after reasonable demonstration. In this meeting one farmer said he had never regretted the purchase of his silo. He made a mistake in size, buying one too large, but that he should and would have two, each smaller than the one first bought. This man's talk of a few minutes should convince any reasonable one of the value of the silo. His daily demonstration should clinch the conclusion.

But, progress does not make great haste. I do not scold the farmer. The average of his kind is much more wise in his affairs than the average of any other class, I believe. I desire to be understood as writing what I feel and believe is good for him, as I am able to learn what that is, and permit him to decide for himself. He will eventually decide, and in his conviction he will be content.

Each of these communities is up-to-date. Each is an advanced agricultural section. I attribute the Grange meetings and institutes as largely responsible. Would that I could induce the farmers of every community to meet once a month and discuss among themselves the seasonal topics. Such meetings will bring any community to the front.—T. A. BORMAN.

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Answering S. G. C., Asherville, Kan.:
Write advertisers in KANSAS FARMER regarding guarantee they make for concrete silos.

Corn Canning Factory Refuse Silage.
Answering E. W. B., Marengo, Iowa:
The husk, silk and cobs from corn canning factories is frequently silaged. The editor has seen this silage used in only one instance, the farmer hauling this refuse from the canning factory to place in his silo. The refuse was run through a cutter as is corn. Water was added at time of filling silo. Did we own a canning factory we would try this method of preserving an otherwise waste product. We would feed to our own stock or sell to feeders.

Clover and Phosphate.
Prof. F. B. Mumford of the Missouri College of Agriculture thinks it of doubtful utility to plow under a crop of clover. His objection is that the clover is worth more as hay than it is for fertility. Yet following that policy steadily has depleted the farms of New England, New York, and other states. We have never found anything that will equal the turning under of a crop of clover to quicken and bring to profit-bearing a piece of sluggish, unresponsive land. All this, providing, that 1,000 pounds of raw, ground phosphate to the acre is added before the clover is plowed. Somehow the turned-under clover makes all things else possible.—Hoard's Dairyman.

Life of the Bee.
You cannot really succeed if you regard your work merely as a matter-of-fact, every day means of making a living. In other words, really successful work demands an ideal; and the men who rise above the common level in any occupation are those who see more in their work and that put more of themselves into their work than their competitors. A wonderfully close and accurate study of the bee and at the same time a book which emphasizes the beauty of the life in a hive, and the poetry of it, is Maeterlinck's "The Life of the Bee." It has been translated into half a dozen languages, and is accepted, not only as a masterly study of the nature of the bees, but one of the most beautiful and inspiring books ever written about the subject. Postpaid, \$1.62, by ordering from the A. I. Root Company, Medina, Ohio.

Soiling Crop and Grain Crop.
Hermon Siemsen, Holyrood, Kan., writes: "I am paying cash rent for a piece of land which has six acres of alfalfa. The stand of alfalfa is not good and the crop does not pay the rent. The land adjoins the pasture, and I want to plant it to a crop which can be fed green to stock in the fall." Our advice is to plant to the early maturing variety of Kafir. List the Kafir. Do not use more seed than will permit development of good heads. Harvest the grain by topping as soon as kernels are past dough stage. Cut the fodder while still green and feed green to the stock. Such fodder will be eaten, up closely, and is excellent feed. We know of farmers who turn stock into the green standing Kafir stalks after heading. Think this the largest return this farmer can likely obtain, taking into consideration the manner in which he desires to feed.

Alfalfa Silage for Hogs.
J. J. Clark, Medicine Lodge, Kan., writes: "I have just received KANSAS FARMER, volume 50, number 4, probably the most valuable paper ever sent out. I am much interested in the silo. At present I am wintering 500 shoats and brood sows on alfalfa hay and as little corn as possible. Can you tell me whether alfalfa silage would make good winter feed for hogs?"
Alfalfa silage will be eaten and relished by hogs, but will not be worth enough more than good alfalfa hay to justify silaging. Alfalfa as a hay, cut at proper time and properly cured, is so good outside the silo that it is generally regarded as not advisable to place it in the silo, except in those sections of Kansas where the first crop cannot be cured on account of early summer rains. Under such conditions it will pay to place alfalfa in the silo. Another instance of profitably silaging alfalfa is that in which alfalfa may have been rained on and while still wet will make silage and offers a means or saving the crop to the best advantage. To fill the silo with corn or Kafir and feed the alfalfa hay with the silage, is regarded as the best practice.

Farm Cushman

What Do These Letters Mean? It Will Pay To Read Them

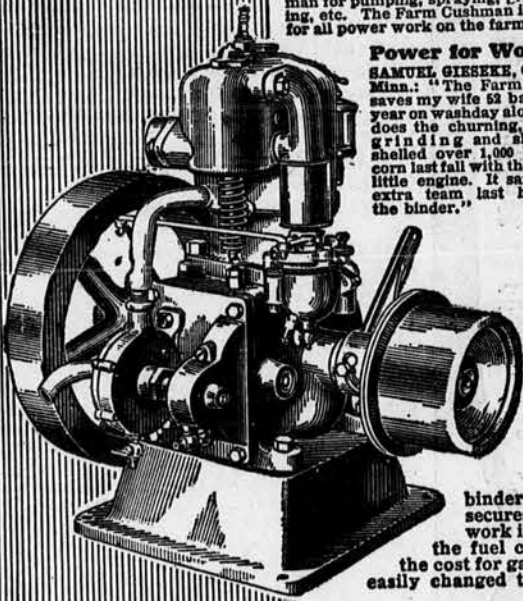
E. O. GREGG, Havelock, Neb.: "I have been using your all-purpose engine on my 8 foot binder the last two seasons. It works excellently. The average cost per day is about 50 cents, and I have been cutting 15 to 25 acres per day. I would certainly recommend it as a horse-flesh saver, and without the engine I could not have saved my crop last year when it was so wet. It is the best all-round engine for any farmer to have."

Never Saw Its Equal
E. A. BURNS, Geneva, Neb.: "I have never seen the equal of the 4 H. P. 4-cycle Farm Cushman for smooth, steady power and noiseless operation, and I have used several other makes." Mr. Burns is using the Cushman for pumping, spraying, grinding, sawing, etc. The Farm Cushman is the engine for all power work on the farm.

Power for Women's Work
SAMUEL GISEKE, Courtland, Minn.: "The Farm Cushman saves my wife 52 backaches a year on washday alone. It also does the churning, pumping, grinding and shelling, shelled over 1,000 bushels of corn last fall with the powerful little engine. It saved me an extra team last harvest on the binder."

The Light Weight Wonder
N. E. WARNER, Bunkerhill, Kans.: says the 4 H. P. Farm Cushman is a light weight wonder for steady speed and power. He grinds nearly 40 bushels of corn an hour with it. He returned an unsatisfactory 2 cycle engine to another company and bought the Farm Cushman.

Cream Separator Every Day
J. D. KEASLING, Winfield, Kans.: "The steady hum of the cream separator proves your claim for steady speed of the Farm Cushman. My wife always takes delight in showing how easy and certain the Cushman is to start and she operates it alone."



Cut Out the Hard Work

Do you not feel the need on your farm of just the kind of help these people are getting from this powerful little engine? Their work is made easier than yours. They can do more of it. They can do it cheaper. It is making their farms worth more money. They have cut out the hard work. They are the typical modern farmers.

The Engine for All Purposes

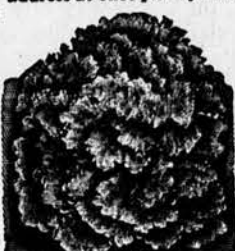
The Farm Cushman is a 4-cycle engine of 4 horse power rating, but develops 5 h. p. easily. It is not a one-purpose engine, but is designed and built specially for all power work on the farm, whatever and wherever the work may be. It is the original binder engine. Its weight is under 200 pounds. Like automobile and aeroplane engines, it secures greatest power with least possible weight. It consumes gasoline according to the work it is doing by means of a special automatic throttle governor. If the "load" is light, the fuel consumed is small. At any work up to its capacity of over five actual horse power, the cost for gasoline is less than one cent per hour for each horse power used. Runs at any speed—easily changed to fit any job.

Our book tells all about it. Let us send it to you free. Address

CUSHMAN MOTOR WORKS, 2148 N Street, Lincoln, Neb.

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WE want every reader of this paper who has a garden to TEST these 6 splendid new vegetables. We know they will give such wonderful results that they will make thousands of new customers for us, and all we ask is for you to send your address at once plainly written on a Postal Card and we will mail you these 6 sample packets absolutely FREE for testing.



12 Day Lettuce—After once trying this variety you will say it is the quickest grower on record, always very tender, crisp and sweet.

15 Day Radish—A wonder for quick growth. Will produce radishes fit to use in 15 days. Is very crisp and tender, scarlet color.

Fancy Pickles—Here is a cucumber to be proud of. It is a marvel of beauty, grows very quick and just right size for pickling. You should grow this excellent variety.

44 Day Cabbage—Quickest growing cabbage in the world. Heads quick, very solid and excellent quality. Try it and you will say it is a wonder.

Sugar Parsnip—Very best variety for home gardens. Roots large, very smooth, flesh fine-grained and excellent quality.

Remember we will send a Sample Packet of all these 6 varieties of SEEDS absolutely FREE to every reader of this paper who has a garden and will test them. Several dollars worth of vegetables can be grown from this lot of seeds. Write your name and address plainly on a Postal Card and it will bring them. Do it today before all the sample lots are taken. Our 1912 CATALOGUE of Vegetable and Flower Seeds, Plants, and Rare Fruits with our Special Bargain List with Color Plates, will be sent FREE with every lot.

Address—MILLS SEED HOUSE, Dept. 21, ROSE HILL, N. Y.

GOODYEAR Rubber Tires

for Carriages—Mean Long Service Satisfaction

Goodyear Wing Carriage Tires save you both trouble and money; give comfort and save your carriage.

The patented wing feature gives the tire double life. It preserves the base. The wing extension presses tightly against the channel and prevents mud, grit and water from entering, which would cut, grind, loosen and destroy the base.

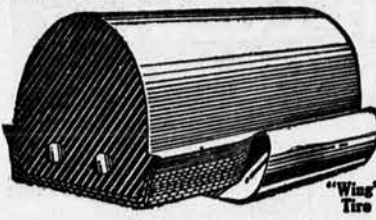
That is what happens with ordinary carriage tires. That's why they are expensive and unsatisfactory. That is impossible with Goodyear Wing Tires. The base remains sound. The tire stays on—gives long wear—about twice the ordinary—made of tough, springy rubber—gives perfect satisfaction. Insist on Goodyear Wing Tires—you'll get the world's best.



Goodyear "Eccentric"

Eccentric Cushion Tire
An improved cushion tire—superior to any other. The retaining wire hole below the

The Goodyear Tire & Rubber Company
Akron, Ohio



center allows 50% more wearing depth—wears that much longer—saves you that in money.

The hole being below the center, does not crack out. The tire stays firm in channel. High grade, resilient rubber assures comfortable riding and saves the carriage—assures you perfect satisfaction.

Our latest carriage tire book sent free. Gives full information. (530)

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22 CALIBER HUNTING RIFLE FOR EVERY BOY

This Great Rifle is over 30 inches in length. The barrel is bronze, 15 inches long and finely rifled. It has a built up steel jacket, giving it great strength and durability. The rear sight is open and adjustable and the front is a knife sight. The stock is made of fine walnut with pistol grip as shown. The gun has the hammer action and the shell is automatically thrown out when the barrel is "broken down" for reloading. The gun shoots 22 caliber long or short cartridges.

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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We manufacture Lawn and Farm Fence. Sell direct shipping to users only, at manufacturers' prices. No agents. Our catalog is free. Write for it today.

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I Will Prove To You That Merry War Powdered Lye Will Cure Sick Hogs

You, and every other Hog Raiser, know that if hogs can only be kept on their feet and on their feed and free from worms and cholera, there'll be no cause to worry about your hog profits.

When I, personally, say to you, Mr. Hog Raiser, that MERRY WAR POWDERED LYE will do this and more, that it is the greatest Hog Remedy, Conditioner and Fattener, the world has ever known—I want you to take my word for it until you have had time to prove it for yourself—I know exactly whereof I speak because 20 years with MERRY WAR POWDERED LYE and a close study of Hog Conditions has made me competent to advise you.

Hundreds of Hog Raisers have written telling how glad they are that I told them that MERRY WAR POWDERED LYE would kill worms, hog cholera and put pigs in prime condition quickly for highest market prices.

Read What Adam Schultz, a McLouth, Kansas Hog Raiser, Writes
This is but one out of the big daily mail and it's mighty interesting reading for up-to-date Hog Raisers.

"Before I began feeding MERRY WAR POWDERED LYE my hogs did not eat as they should. Some of them would not eat at all, but after I had fed MERRY WAR POWDERED LYE about 8 or 10 days, I could see a marked improvement in my drove and they now look slick and thrifty. I consider MERRY WAR POWDERED LYE the best remedy I have ever used—and the cheapest. I have spent a good deal of money at times but I never got the results from any of the so-called Hog Cholera and Worm Cure Remedies as I have from MERRY WAR POWDERED LYE." And that's the general testimony of Hog Raisers—and I just want to say to you that the very best way you can insure big, fat pork profits is to

Feed Merry War Powdered Lye Daily

—and feed it just as regularly as you do their daily ration—you will find it a profit-earning investment—it not only prevents hog losses from Cholera, Worms, etc., but turns your golden grain into more golden dollars quicker than anything you know and costs so little, 10c a can.

Heed My Warning

It's mighty important that you don't make any mistake—because some makers of ordinary commercial lye try to persuade dealers and hog raisers that their product is just as good as Merry War Powdered Lye as a hog remedy. Don't you be led astray by such talk—no other lye maker knows the secret process that makes Merry War Powdered Lye safe to use in hog feed—they don't know the combination in Merry War Powdered Lye that does the work.

Kettle Powdered Lye For Soap Making If you want the best lye, exclusively for Soap-Making, scouring, cleaning, disinfecting, etc., use my famous Kettle Powdered Lye—it makes the best soap you ever used. —But Don't Feed It To Your Hogs. Feed Only Merry War Powdered Lye To Your Hogs.
E. MYERS LYE COMPANY, Dept. 12 ST. LOUIS, MO.



Follow these Directions

Mix one tablespoonful Merry War Powdered Lye with slop for 10 hogs or a half can with barrel of swill. Stir well and feed EVERYDAY, night and morning; If your hogs are on dry feed ration, mix half can Merry War Powdered Lye to each barrel drinking water.

At All Leading Dealers

Most dealers handle Merry War Powdered Lye. If yours can't supply you, write us, stating your dealers' names, and we will see that you are supplied, and will also send you free, a valuable booklet on "HOW TO GET THE BIGGEST PROFITS FROM HOG RAISING." Merry War Powdered Lye comes in 10c cans; full case of dozen for \$4.80, at Grocers', Druggists', Feed Dealers' there are no substitutes.

This Corn Planter Plants With Human Finger Accuracy

A Wonder-Working Machine that Measures Distance, Counts and Plants Seed as it Goes. All you do is drive. This remarkable planter does the rest. No matter whether you go fast or slow, the positive force feed valve of the Rock Island regulates the drop; every row is as straight as a string. Actual tests prove that no planter ever equalled this one in accuracy of drop. Can change instantly the number of kernels without stopping or leaving seat. Nor is the Rock Island No. 1 equalled in strength and simplicity of operation.



Rock Island No. 1 Corn Planter

Saves Soil, Time, Labor

Over 25 years' experience is back of this planter and the service it renders. In addition to the most accurate drop, it has the most durable and perfect clutch ever invented. Dirt and sand never affect it. These two features alone indicate the splendid efficiency of the No. 1. Let us point out other big advantages. See the Rock Island dealer at the first opportunity.

Write for FREE Booklet

Send a card tonight. Back comes all the interesting, money-saving particulars that have made this planter famous. Don't put off. Write tonight.
Rock Island Plow Company
243A Second Ave., Rock Island, Ill.

Wonderful Self-Locking Hoisting Device—The Jumbo!

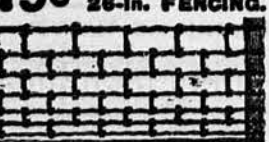
Big 30-Day FREE Trial Offer! You're spending too much time, money, muscle, mauling. Let me show you an easier, better way. I'll bring your hogs up and hold 'em up; I'll raise a wagon box, stretch a fence, do 40 odd jobs. I'll do 'em for 30 days. If I don't earn my cost the first time used, my makers will take your word and take me back. I'm a guaranteed

Jumbo Safety Hoist and Wire Stretcher

The instant you let up on pull rope, I lock it automatically in a vise-like grip. Yet a turn of the wrist releases my lock and I let the load down easy. My patented adjustable shoe fits various size ropes—new, worn, wet or frayed. I'll last a lifetime. Try me on a 30-day make-good-or-no-pay basis. Send yours and your dealer's name on a postal for catalog and BIG FREE TRIAL offer to
HALL MFG. COMPANY, 222 Main Street, Monticello, Iowa

Save Money on Your Fencing

19c PER ROD FOR 26-in. FENCING.



If you will take the trouble to investigate "SAMPSON FENCING" you will say that we sell the best hog and pasture fence made. Top and bottom wires are 10-gauge hard, smooth, galvanized wire. Middle wires and stays are 12½-gauge heavily galvanized.

"SAMPSON" FENCING—No Better Fence Made

Is guaranteed by us to be full weight and to satisfy in every particular, or no sale. "Sampson" Fence can be had from 20 to 56 inches in height. We are prepared to furnish in small mesh if desired. State your needs and we will be glad to quote you prices. **LARGE CATALOG, containing full description sent FREE. Write for it today.**
JONES, POST & CO. ["THE HOUSE THAT SAVES YOU MONEY"] 657 Liberty St. KANSAS CITY, MO.

LIVE STOCK



The man who stays in the hog business year after year is the man who wins out. Losses may and do occur, but they are generally not more severe than may happen in other lines of business, while the gains are as sure as any other, and much larger than in most other lines.

When you hear a man say that he does not have time to read advertisements he may believe what he says, and probably does. But isn't it a little strange that the things he buys are those which are the best advertised? The same facts which apply to soap or coffee or threshing machines will also apply to pure-bred live stock.

Don't go out of the hog business, even if you did have a touch of the cholera. Clean up and disinfect everything and keep at it. The hog is the money maker of the farm, and right now is the best possible time to attend some of the pure-bred sales and get started right. If common hogs have paid a profit, just think what pure-bred hogs will do for you, and without costing any more to raise.

A farmer who does not wish his name used states that he finds the horse situation to closely parallel the hog situation. The large number of losses which have occurred among horses caused by the feeding of wormy corn and drouth-grown fodder will make work horses scarce in the spring, with a consequent advance in price. This farmer thinks that, except for the ravages of cholera, the hog population would have been so dense that there would have been scarcely any market for the pork makers, while under present conditions he sees the probability of a strong demand, especially for breeding animals.

"There is but one farmer in 500 in Kansas and Nebraska who knows how to properly harness and hitch up a horse. How many horses are there in this state that do not have scars on their necks and shoulders? I personally inspected 312,000 horses in Great Britain, owned by railroad and transfer companies, and I did not find a scar upon one of these horses. Isn't that proof that there is no need of scars on the horses in this country? In one town in Nebraska, where I spoke some time ago, a committee, without my knowledge, investigated all the farm horses tied in the town at the noon hour on the day I spoke. Of the 259 investigated, 251 had scars on their necks or shoulders. The eight that did not have them were but three years of age."—G. L. CARLSON.

As showing what may be derived from the use of the silo in connection with beef making on the farm, the experience of M. E. Meek, of Idana, Clay County, Kansas, is valuable. During the hot dry weather of last summer when the pastures were so short, Mr. Meek fed a bunch of stags which he had previously purchased on the Kansas City market. These stags were fed on ensilage and corn, and, while the short pasture kept their weight down, he had the satisfaction of selling two carloads of them at an average of \$93.69, while the average cost was \$47. As will be seen, this was a profitable venture. Comparatively little grain was used, just enough to balance the ration, and he was enabled to feed his entire corn crop, stalks and all, by aid of the silo, and thus make high priced beef from the cheapest of known feeds.

Sometimes a breeder, and especially a new breeder, has difficulty in selling his surplus animals to his neighbors. Not because his animals are not good, nor because they don't like him, but because they think that animals from a better known herd at a distance are better worth the money. This is one of the results of advertising to which the new breeder may not yet have attained, and right here is where the beginner may make a serious mistake that will affect his future business and work much discouragement. If he accedes to their de-

mands for his stock at stock prices he will have fixed his local market on so low a scale that it will be unprofitable. He must be firm in demanding fair breeder's prices for his stock, or else turn them into the fattening pen. Of course the animals must be worthy. If they have the quality and breeding, they are as staple as sugar.

Hogs With Cough.

Am writing you to see if you or your readers can give me any information as to what would be good to give hogs to cure a cough. Seven or eight of mine have a bad cough, and have had for a month. I have fed coal and lye.—OWEN FORAN, Lincoln, Kan.

ANSWER.—Give half a teaspoonful of castor oil with two teaspoonfuls of turpentine to each. Give in a little milk on an empty stomach. They will drink it with a little water. Then take ferri sulphate, 1 pound; hyposulphite of soda, 2 ounces; sulphur, 3 pounds; arsenious acid, 3 pounds, and mix. Give a heaping teaspoonful to each two pigs in slop once a day. Clean all pens and sleeping quarters well and keep a good, dry bed, so they will not pile up.

Blood Poison.

I have seen somewhere in your paper a recipe and blister for a sick colt like one I have. She is two weeks old. Seemed all right first week, then the joints on her hind legs began to swell. Now her front legs are swollen. She seems stiff. Have to help her up. She coughs or sneezes, makes urine, and I have kept her bowels loose with castor oil. She seems bright and whinnies when we go near her. I wish to save her if possible. Can you tell me what is the matter with her?—CHAS. G. PETERSON, Greenleaf, Kan.

ANSWER.—This is blood poison taken in by the navel the first few days after foaling and by keeping in a dirty stall. You will have a hard time to save her now, as it has run on too far. Do not blister the enlargements. Take sulphide of calcium, 3 drachms. Divide into 12 powders and give one twice a day in a little milk.

Growth on Jaw.

I have a thoroughbred Poland China sow, 15 months old, that has a large growth on right jaw, extending from lower part of jaw almost up to ear. It doesn't seem to be very sore. The lump first came about two months ago, soon after she had farrowed. I stuck it in several places, but there seemed to be very little pus in it. I stuck it about two inches deep. The place seems hard and solid. After sticking it it went down till her jaw was almost normal, then began getting larger till now it is very large. Weaned the pigs some time ago, and she is very thin and poor. Will eat all right. Stuck it again, but nothing but blood came out. Could you tell me what it is and prescribe treatment?—EVERETT G. HAGER, Kimberly, Idaho.

ANSWER.—Take potassium iodide, 2 ounces. Dissolve in half a pint of water and give a tablespoonful twice a day in milk.

Ailing Shoats.

I have a bunch of shoats varying in weight from 40 to 120 pounds, and they seem to have the itch, or something that is preventing them from putting on fat. They have lumps as large as a man's fist on their bodies. Some have them on their sides, others on the sides of their heads, or almost anywhere a lump could gather. I would like to know what disease this is, and what remedy would cure it, as hogs are not a paying proposition in this country, but we have them just the same. I would like to know what to do for them.—Q. H. F., Plainville, Kan.

ANSWER.—Spray or dip them with crude oil. Take ferri sulphate, 1 pound; hyposulphite of soda, 2 ounces; sulphur, 3 pounds; arsenious acid, 3 pounds, and mix. Give a heaping teaspoonful to every two pigs in slop once a day. Clean all pens and sleeping quarters well and keep a good dry bed so they will not pile up.

Heaves.

I have a seven-year-old mare. She begins coughing a day or two before she takes sick. She coughs from her stomach. She would stand still and pant, her flanks moving up and down quickly, and cough deeply, and hang her head nearly to the ground. When it comes to the highest point water will run from her nose. It is never steady, but when foggy or damp weather, she always has it. She has it steady when dry feed, such as hay, cane, etc., is fed, and when she drinks if she runs or is led fast she always gets very sick, but always in the same way. I have had her nearly two years, and she had it ever since. She brought a fine healthy colt last May. Please tell me if you know any cure for the disease.—MIKE RUPP, Ellis, Kan.

ANSWER.—This is heaves. Take nuxvomica fluid extract, 4 ounces; belladonna fluid extract, 2 ounces; Fowler's solution, 1 pint. Mix and give a tablespoonful back on the tongue twice a day with a dose syringe. Feed carefully on good prairie hay sprinkled with salt and water before feeding. Give oats and bran scalded, and water always before feeding half an hour, and not afterwards.

Barb Wire Cuts.

Perhaps the most common trouble confronting the average farmer is the ever present barb wire cut. And the more valuable the animal, the greater is the liability to injury.

If every barb wire cut was considered dangerous instead of being neglected, until the animal is bleached for life, fewer bad results would be the outcome of this frequent accident.

In horses the breast and upper part of the forelimbs is the usual location for a series of wire cuts. Sometimes the large muscles in the region of the shoulder to the knee are almost cut in two. The wounds become infected, the pus runs down between the layers of muscles and leaves as a sequel a stiff-kneed animal with large scars. If the injuries are on the inside of the thighs, the same condition may result in the region of the stifle or hock.

An "open joint" is more frequently the sequel of neglect than of actual injury. Chances of recovery in this condition are very poor.

Prompt treatment of wire cuts is of greatest importance. If a competent veterinarian can be secured, oftentimes the price of a valuable animal can be saved for the cost of a visit.

If home treatment is the only kind available, the bleeding, if severe, should be stopped with some astringent powder, as alum, or with a hot iron. The torn tissues should be rearranged as near like normal as possible, and treated as an open wound. Greasy liniments and ointments should be used with care, paying more attention to keeping the wounds clean. Tar is good in summer to keep away flies. For an antiseptic, a 3 per cent solution of creolin is non-irritating and cleansing, but it is best to use very little water on any sore.

The course of healing is varied, due to movements of the part, which tears the reuniting tissues. Sometimes the animal bites the itching wound, increasing the infection. Every injury must be treated differently, and each complication met with common sense and patience.—DR. E. T. BAKER, Idaho.

Danger from Blackleg.

It seems a curious provision of nature that the youngest, fattest and best animals in any herd of cattle are those which are most surely attacked by the blackleg. This disease is confined almost entirely to the bovine family, and usually to the best specimens. It almost always attacks some one quarter of the animal, hence its name, blackleg or quarter evil. It always manifests itself in the upper portions of the leg, and never below the hock or knee joint. It is characterized by rapidly developing enlargement which has the appearance of a swelling, but which is in reality caused by the large quantities of gas beneath the skin. This gas is the product of the blackleg bacillus and separates the hide from the flesh. If the skin is handled over the diseased part it gives forth a rattling sound something like stiff paper. If the skin is punctured a bloody fluid, having a very disagreeable and sickening odor, will exude. The disease is very fatal and is always associated with a loss of appetite, high fever and lameness. Death follows within a very few days after the attack.

This disease, which has cost the farm-

ers and cattle men of the country thousands of dollars, is caused by a bacillus which lives and propagates in the soil of infected districts as well as in the bodies of diseased animals. It is believed that certain kinds of soil are more favorable to its propagation, and that when once this soil is affected it remains so with greater or less permanence. It was formerly believed that blackleg was one form of anthrax, but this is now known to be erroneous, as each disease is produced by different germs, though both are deadly.

Blackleg is not contagious, and one animal cannot contract it from another. The bacillus enters the system as the result of self-inoculation. The germ enters a wound in the skin or mucous membrane of the body, which may have been produced on the legs of the animals while roaming about the field or in the mouth while grazing.

When an animal dies with the blackleg it is fairly swarming with the germs, and these remain in a virulent condition for a long time. For this reason it is never wise to bury the animal, as this would permit the germs to remain in the soil for an indefinite period and become the possible source of infection for years to come.

About the only safe procedure is to burn the animal on the spot where its death occurred, as its removal is almost sure to infect the grass or earth over which it is dragged. The disease manifests itself at two periods of the year more frequently than at others. These are when the animals are turned from dry feed onto pasture in the spring and from pasture onto dry feed in the fall. The cases seem to be more numerous in the spring, and preventive measures should always be adopted before the cattle are turned out to pasture.

As there is no known remedy for blackleg, protection can be secured only through preventive measures, the most important of which is vaccination with blacklegoids or blackleg vaccine. Such vaccination renders the animals immune, and even if they are attacked there is almost no appearance of the disease. These preparations are made of different strengths and for single and double application. The single vaccine requires but one inoculation and renders the animal immune for at least a year. When a calf is vaccinated it may be again desirable to vaccinate it as a yearling, and this operation can be performed by the farmer himself.

Full directions are always sent with the vaccine, and it is only necessary that the farmer should purchase a hypodermic syringe and be sure to keep it very clean and thoroughly disinfected. The syringe is fitted with a sharp, needle-like nozzle, as previously described in these columns, and is a useful instrument for the administration of anti-hog cholera serum and in other emergencies as well. The injection may be made on the under side of the tail a few inches from the tip and just beneath the skin. It will be equally effective if applied on the neck or shoulder and just beneath the skin. The needle should not penetrate the muscular tissue, and it is only necessary to pick up the skin and penetrate it so that the vaccine will be delivered between skin and muscle. A sharp pinch of the wound between the thumb and finger will usually serve to close it.

Medicines cannot be relied upon, although some have been in use for many years. Doctor Burkett gives a medicine which he says has been in use throughout the west for many years, but which he does not recommend. It is composed of 4 ounces of sulphur, 1 ounce of saltpetre, 2 pounds of sulphate of iron, and 1 pound of air-slaked lime. Each of these ingredients is thoroughly pulverized and mixed with the others, when a third of a gallon of common salt is added, and the compound is used in place of salt. While blackleg generally attacks the younger animals, it is a matter of common prudence to vaccinate the herd up to the three-year-olds if it should appear among them. As the disease is contracted from the infected pastures, it is safer and wiser to vaccinate animals turned into any enclosure which has ever had a case of blackleg in it.

Kansas Cow Pea Seed.

Joshua Wheeler, El Dorado, Kan., asks for Kansas cow pea seed. Our subscriber, F. R. Warburton, Argonia, Kan., has New Era peas slightly mixed with Whippoorwill, but does not see how he can part with them. He thinks the cow pea crop one of the best farmers in his section can grow.

Have Healthy Hogs

Well-conditioned hogs are not liable to become diseased—to get wormy or have cholera. If they should be stricken, then good condition should pull them safely through. Think of this now—not after your hogs are dead. Begin now to protect your hog profits by mixing with your hog feed a little of

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A quarter of a can to every barrel of slop is sufficient—a teaspoonful to five gallons. There is not a better conditioner and preventive of disease. But be sure you get Lewis' Lye—it's in the can with the Quaker on it. It's the pure, full strength lye—you can't afford to take chances with any other. It has been the standard since 1854—sold and guaranteed by all grocers.

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A SAMPLE BOX OF ARABO ANIMAL Ointment for scratches, galls and sores on horses and cattle, sent free for three farmers' names and addresses. Syracuse Tablet Co., Dept. B, Syracuse, Ind.



It is well known that there is no feed that can quite compare with skim milk for keeping young pigs growing thriftily. The fall fresh cow makes it possible to grow a good crop of fall and winter pigs.

Colored oleomargarine has always been sold at only a few cents a pound less than the ruling prices for good butter. If put down where it would in any sense serve as a "poor man's substitute" for butter, the fraud would be apparent and the poor man would no longer buy it.

The object in feeding a dairy calf is to grow a good, strong body, and cultivate a capacity for consuming dairy feeds, without laying on fat or taking on the characteristics of a beef animal. This is the easiest way to grow a calf, and by far the cheapest.

The dairy cow is the medium through which the dairyman markets the products of his farm, and if he is to make money in producing milk, it is of the utmost importance that he have a good market to dispose of his farm crops. That is the reason for a good cow.

"All cream and no skim milk" is what a subscriber told us the other day about KANSAS FARMER dairy department. If we have overlooked giving readers some skim milk, we are truly sorry. Skim milk is needed on the farm, and is one of the farm's most valuable products. Skim milk as a food for growing animals is not excelled.

The casein in milk and the white of the egg are both pure protein. The cow can put the casein in her milk only through the protein in her feed; the hen can make the white of her egg only from the protein in her feed. Some owners withhold it from both, and then wonder why cows do not give milk and why hens do not lay.

It is claimed that within the last year more Iowa farmers have bought purebred dairy bulls than during any preceding 10-year period in the history of the state. What's the matter with Iowa—the state of big corn, hogs and beef cattle? Can it be that Iowa cattle feeders must lean on the cream check and so go to milking cows? If Iowa needs the dairy cow, what about Kansas?

The farmers in some localities of North Dakota are organizing themselves into associations known as \$100-an-acre clubs. The idea behind this movement is to employ more scientific and intelligent methods of farm management and thus cause their land to produce a net income of \$100 an acre per year. And if this is followed up intensively they can succeed. The dairy is an important factor in this undertaking.

A writer who had recently visited England writes: "One English speaking farmer kept seventy head of milk cows on forty acres of land. The entire forty was hay land. All the grain fed was purchased in northern Holland. He valued his land at \$1,200 an acre and was renting some that he did not own for \$60 an acre." This tends to show that in this country we have not yet learned the first principle of making high priced land pay, and that we know little about getting large returns from dairy cows.

The federal Department of Agriculture is spending a mint of money in an effort to establish dairying in the southern states—those states the farm lands of which are worn out through continued cropping and otherwise poor farming. The effort is showing gratifying results. The farmers of those states are willing to take hold of anything which promises even a fair living. Dairying is the only thing which will rebuild this soil and afford farmers an income while the rebuilding is going on. If dairying is the last resort, after everything else has failed, why is it not a good thing to practice a long time before it becomes a necessity?

Have you ever recalled that the cow furnishes a cash market for a lot of roughage which except for the cow has no value? The cow today eats stuff which you would not think of offering to the beef steer, and tomorrow you take the cream can to town, get a check, and in a few minutes receive the cash from the grocer or bank cashier. The hen and the cow are the only two farm animals doing business in any such way. Each is well worth developing in your farm operations to the greatest possible extent.

The cow is essentially a machine on the farm, placed there for the special purpose of converting the grains and grasses into the finished product, milk. As with the machine in the factory, so with the cow; if she proves a profitable investment, she should be retained, but if her account is heaviest on the debit side of the ledger she should be sold to the scrap-iron man, namely "the butcher." But do not condemn the cow without first having given her a chance. Give her good feed to her capacity and judge her on a full flow of milk.

A dairyman writes: "Blot the cow from human industry and grass would grow in the streets of our great cities. Seventy-five per cent of our freight trains would cease operations. Fifty per cent of our laborers would draw no pay on Saturday night, and our tables would be bare of the greatest luxuries we now enjoy. For there is not a thing about the cow, living or dead, that we do not utilize. We use her horns to comb our hair, her skin clothes our feet, her hoofs make glue, and her tail makes soap, her blood makes our sugar white, and her flesh is the meat of all nations."

While eastern papers are devoting column after column to the building up of depleted farms, western papers are devoting an equal amount of space to induce the farmer, if possible, to maintain the fertility of our soils now possess. It is a crime to rob the soil—the soil's fertility is not yours. It is as much the property of the unborn generations. By true farming methods we can maintain the present fertility with profit to ourselves and increase it as a heritage to our children.

The cream separator should be in a light, airy and clean place. While in theory the barn should be clean enough for separating milk, in practice it usually is not. A clean, detached room is the ideal place for the hand separator. When the location of the cow barn where the milking is done, where the calves and pigs are fed skim milk, and the water supply for cooling the cream are all close together, the separator room and the place for keeping the cream can be one and the same place. By such an arrangement the least amount of labor is required to handle the skim milk and the cream can be kept in best possible condition.

As a valuable foundation for a dairy ration alfalfa has within the last few years made California an exporter of creamery butter. The fields of that state produce alfalfa abundantly, and five or six cuttings per year in some parts of the state are not unusual. Alfalfa is used principally as a soiling crop—cut green and fed in racks or mangers. The cows have no opportunity to graze. Farmers feed as many as 100 cows on a 25-acre tract. They make money and lots of it in this way from high priced land. This is only more proof of the dairy cow's ability to return a larger profit than any other animal.

Know Your Cows.

First be sure of your cows, and then there will be no gambling with them. Don't guess about your cows, but study them and learn why one does better than another. Raise your own calves from the best ones. The cows which you buy of a wandering cow puncher are the ones that someone else has been unable to make money with. If you go at it right there is no gamble in raising the calves. Get a good bull to

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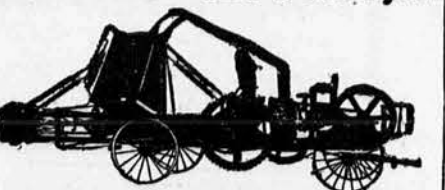
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start with, raise one yourself if possible and do not let him run with the cows, for you never know when they will calve and when to try them off. Take pains with the calves. Keep milk pails from which they drink and their stables clean and you will have little or no trouble with scours. Too many start their calves in the spring and by fall they have a runt calf. Then it is put in a cold stable and fed on the poorest hay. Two years at this feed and care and you have a poor cow to start with and one that never will be a good one. The calf should have the best kind of food and care and then there will be no gambling about the cow.

Hired Men in Dairy.

A dairyman who employs hired labor writes an exchange:
"A hired man should be paid according to his ability and willingness to work. If he is a sluggard and still receives the same wages as the alert man, the man with higher ambition is discouraged because he does not receive pay in proportion to the amount of work he does. In many cases the farmer is condemning the hired man when the farmer himself is doing about all he can to discourage the man's ability. Human interest and kindness are perhaps the best means of getting the most out of the hired man. If he is greeted in a cheerful way in the morning when he meets his boss at the barn and is treated as a man, he feels that there is something in this old world besides hard work and will feel more like trying to please his employer.

"If some of the foregoing hints are carried out, the dairy business will not be dreaded to so great an extent by the hired man, and in the long run the farmer will be money ahead. The dairy business is certainly worth while. Why should not the farmer do his best to develop it on his farm? As land advances in value, dairy farming is sure to come, and the sooner the farmer gets onto the band wagon, the better it will be for him. Try it and see if I am not right."

Dairy Cow and Fertility.

The dairy farms at the agricultural colleges have many times shown the value of dairy cows to the soil. The Illinois station says that manure is figured at eleven tons per cow annually with cows producing 8,000 pounds of milk. On the 20-acre dairy farm at the university last year cows which were kept in the barn during the winter and in a dry lot during the summer produced 13 tons of manure per cow. The average value is considered at \$1.50 per ton. At the Illinois Agricultural Experiment Station on a three-year rotation of corn, oats and clover manure has increased the crop yield \$1.60 for each ton of manure used, figuring the market value of the crops, for the first three years after it is applied. No consideration is taken of the increased production from the effects of the manure after the first three years. At the Ohio Experiment Station the value of the crop yields has been increased \$2.34 for each ton of manure used. From the figures above stated, \$1.50 a ton is a conservative value on cow manure which has been well cared for. Cows which produce less than 8,000 pounds of milk will produce, on the average, less than 11 tons of manure. Cows producing more than 8,000 pounds of milk will not only produce more manure, but it will be of a better quality, owing to the fact that they are fed more concentrates. For these reasons the value of the manure is lowered 50 cents per cow for every 1,000 pounds' decrease in production of milk below 8,000 pounds, and raised 50 cents per 1,000 pounds' increase in production above 8,000.

Kansas Guernseys.

Among the finest dairy cattle on earth are the Guernseys. This wonderful breed is just getting a foothold in Kansas, and there is one breeder at least who has so far progressed that he can now offer surplus stock for sale. This is Mr. Frederick Houghton, of Roxbury, McPherson county, Kan., whose herd bull is especially worthy of note. This bull is Eminence of Birchwood 12470, whose ancestry includes many animals in the Advanced Registry. Among these are at least two that are among the eight or ten great animals which have made Guernsey history. Materna 1334 dropped her first calf at 26 months and kept up a milk flow of 30 pounds per day during December and January of that winter. She milked well for the next 13 years and made a record of 10,778

pounds. She won first prize in the ring and championship in the 90 days' test during the Chicago World's Fair. In this test she produced 153.39 pounds of butter fat. Nearly all of her 14 calves proved to be great milkers or great sires, and her last calf, Walfram 5640, sired five Advanced Registry daughters. She is the ancestress of some of the greatest cows of the breed, notably, Standard Morning Glory, who made a record of 714.01 pounds of butter fat at 4½ years. Lily's Bonny Boy is the other of these specially prominent ancestors of Eminence of Birchwood. He is best known as the sire of Lily Ella, with a record of 782.16 pounds of fat in one year, and of Lillyita, with a record of 710.53 pounds, though at least three other daughters of his have exceeded 500 pounds and 28 of his daughters made records which exceeded the Advanced Registry requirements.

This bull was wonderfully prepotent and his blood continues to breed on in dozens of the best Guernsey herds of the Middle West.

Calf Scours.

A lot of calves will be coming into the world now soon, and the dairy farmer who has had trouble with scours must look out. First, special care is taken to avoid scours by keeping the calves in clean, bright, well lighted and well ventilated quarters. They are fed regularly until four weeks old on two to six pounds of their mothers' milk three times daily. Care is taken to have the temperature of the milk as near that of freshly drawn milk as possible, and always to have the calf pail scrupulously clean.

In spite of all precautions you will now and then have cases of scours. For the past two years such cases have been treated as follows: As soon as symptoms appear two to four tablespoons of castor oil are mixed with one-half pint of milk and given to the calf. This is followed in four to six hours by one teaspoonful of a mixture of one part salol and two parts subnitrate of bismuth. It can also be given with one-half pint of new milk or the powder placed on the tongue and washed down by a small amount of milk.

The salol and subnitrate of bismuth can be secured from any druggist mixed in the proper proportions at the time of purchase, and thus have the powder readily available for use at any time. As an additional precaution against contagious scours, it is advised that the navel of the new-born calf be wet with a 1 to 500 solution of bichloride of mercury (corrosive sublimate).

Selling Whole Milk vs. Cream.

Hoard's Dairyman is not opposed to dairy farmers shipping whole milk to cities or selling it to condensing factories. It wishes, however, to impress upon the men who are following this business that when they sell whole milk from the farm they are taking away more fertility than when fat is sold and the skim milk fed to calves and pigs. We consider it easier to keep up the fertility of the soil when no part of the milk leaves the farm except the fat, but men who find it more profitable to sell their whole milk must not forget that they must purchase more fertilizer to retain the fertility of their farms than when their product is taken to the creamery.

Dairy farmers selling whole milk should get more for it than those who sell fat, for skim milk is worth from 30 to 50 cents a hundred for feeding purposes and the extra fertilizer, which farmers shipping whole milk must buy if they desire to become true farmers, must be taken into consideration. In other words, we desire the farmers to have a clear conception of the effect that their style of farming will ultimately have upon the fertility of the land. No matter what vocation may be followed, the fertility of the soil is one that interests everyone, and dealers in whole milk should be ready to pay the seller of whole milk the sum equal to its fat value at the creamery plus the feeding value of the skim milk and the value of its fertilizing constituents, returned by the creamery to the dairyman. This puts the milk shipper on an equal basis with the dairy farmer who sells his butter-fat to the creameries.

What's the matter with making arrangements for a neighborhood beef club for next summer. Good beef is mighty good when the heavy work is on, and it is hard to get in any other way. Get as many families into the club as are necessary to use up a carcass quickly and try it once.

What is Your Best Horse Worth to You?

Yet your best horse is just as liable to develop a Spavin, Ringbone, Splint, Curb or Lameness as your poorest. These ailments cannot be prevented, but they can be cured if taken in time. Keep a bottle of the old reliable

Kendall's Spavin Cure

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"I have known and used Kendall's Spavin Cure for about 35 years. Have always found it the best liniment for man and beast." Don't take chances with your horses. Have a bottle or two of Kendall's Spavin Cure always on hand—it is a reliable cure. Price \$1.00 per bottle or 6 bottles for \$5.00. Get our valuable Book, "Treatment of the Horse"—Free at your druggist or write direct to us.

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Portage, Wis., Dec. 1, 1911.

Appleton Mfg. Co., Batavia, Ill.

Gentlemen:—I expect to buy a spreader in the Spring. I like your machine better than any I have ever seen. My nearest neighbor has run an Appleton Spreader for five years and has not paid out five cents for repairs. He has three hundred acres of land and they haul a lot of manure in a year. He has never had more than three horses hitched to it. Some farmers here that have other makes have four horses to pull theirs.

Yours respectfully,

W. J. Koeppe, R. No. 1, Portage, Wis.

APPLETON MFG. COMPANY, 219 Fargo St., Batavia, Ill.

A complete line of machines in stock in your territory.

The Greatest Hill Climber of Them All \$1600 Great Western \$1750

THE GREAT WESTERN "40" IS THE CHAMPION. Chosen by the United States Government for Indian service out West. Our powerful, economical engine, strong construction and good looks won these orders. You get a car that attracts attention everywhere for its beauty. Straight line body finished like a mirror with 18 special processes, all door handles on inside; low soft seats with high tilted backs; beautifully upholstered with hand buffed leather, plenty of room.

THE GREAT WESTERN "40" HAS SELF-STARTER, detachable fore-doors, Typhoon signal horn, demountable rims, electric headlights, compartment under rear seat accessible from outside, gasoline gauge, large tires. Everything genuine and the best.



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Our County Breeders' Association.

(Continued from page 6.)

that had defeated his. And I want to say to you that she looked about right when she entered the show ring. This is the spirit that spells success and makes the breeding of good stock spread and grow.

Last fall during our fair we had a rainy week. It looked like we would be away in the hole financially. Monday following the close of our fair our secretary received a check for \$50 from R. M. Anderson, a lawyer in Beloit, who, so far as I know, has not a dollar invested either in live stock or farms. He saw what the fair was accomplishing for the future of the farmers, and, being the big, liberal-hearted man he is, wanted a hand in the game. He was not alone, either, as nearly all our business men were exactly like him. I am glad to say we did not need their assistance. There may come a time when we do, and what a satisfaction to know that it will be forthcoming when wanted.

It is wonderful what a little organization of men can accomplish. For the past two years it has been my pleasure to attend a fair held at Sylvan Grove, Kansas, a town in Lincoln County—not the county seat, either. One year ago they had what I would call a good fair. Several good Percheron stallions and a few aged mares were shown. Their cattle exhibit was good, and everything else, just what you would expect to see at a county fair. Last fall, a year later, what improvement! Every class filled, a goodly string of aged Percheron mares with a splendid lot of weanling colts, and when the two-year-old class was called eight fillies were led into the ring, and every one of the eight had been purchased and brought to Lincoln within the past year. Winners at the Kansas City Royal and several state fairs were among their cattle, and they had to go some to beat their home grown. This shows you what an organization of hustlers, like they are, can accomplish in a short time. I tell you the germ is deadly.

Now I am not a prophet, but I believe if every county in Kansas had a good breeders' association the hog chomera would be stamped out in a short time. The associations working together with the state live stock sanitary commission and the state veterinary department, our farm animals would be so improved that, other states following our example, the cost of meat to the consumer would be lowered two cents a pound, and the workingman's pail would be filled each day with more and better meat, and this without loss to the producer. For it is a well known fact by all feeders that the better bred an animal is, the cheaper he can produce meat.

Now, a word to the young man who would like to help organize a breeders' association or start in the breeding of pure-bred stock. I say, start at once. The future of the breeder and the farmer, to me, never looked so bright. Some of your old foggy neighbors may laugh and call you a fool, and prophesy "Your feet will strike the ceiling." Do not let them deter you. The same wise men, Mr. Tourgee tells us, "When Noah was building the ark, sat around on dry goods boxes, whistled, laughed and derided Noah as a fool. The flood came and saved Noah's reputation, and he has been considered a smart man ever since." I want to add to this that if any of those wise men should have happened to survive the flood, they would have been the first to pat Noah on the back and say they knew all the time that he was going to make a success with his big boat.

In closing I want to say that we try to impress upon the minds of our members that the word "success" cannot always be written after their lives in dollars and cents. This beautiful land, with all it contains, was given to man for his use, and from its soil he must both feed and clothe himself. Man-made laws have given us a deed to hold our property during life and dispose of it at death. God's laws intended to place this land in our hands to use and hold in trust for those who follow. Their food and raiment will also come from the soil. How are we caring for this land that we are holding in trust? Can we, when we are called on to give an account of our stewardship, say, "Here is the hundred and sixty acres I have lived on all my life; its soil is as rich as when I first plowed. Here is my live stock—better horses, better cattle and better hogs." To all who can answer thus, I would write their lives successful.

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10 sizes: 2 to 25 h. p. Capacity 6 to 200 Bushels.

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Farmer or Farmer's Son
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\$10.00 Sweep Feed Grinders. \$14.00 Salvaged Steel Wind Mill.
We manufacture all sizes and styles. It will pay you to investigate. Write for catalog and price list.
CURRIE WIND MILL CO.,
Seventh St., Topeka, Kansas

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Missing
Page(s)

February 17, 1912.

as I get them—in fact I feed them anything I have for a change. My birds are occasionally fed a rabbit, which is cut into pieces and hung for them to pick at, and one is surprised at the way they pick the meat from the bones and the incredibly short time it takes to do it.

The main feed is wheat and oats in the morning and shelled corn at night, scattered in the straw. Make them work if you would keep the birds healthy and in good laying condition.

Of course in the summer I do not feed them anything, for they have the run of the farm and get plenty of all kinds of food; then the Leghorns are great rustlers and will be out in the fields and pastures and have their breakfast before a great many farmers are out of bed. I do not give this as an ideal way of feeding the poultry, but this is the way mine are fed, and I am now, when the thermometer registers 10 below zero, getting good returns for the time and labor expended in the eggs gathered each day.

In my experience with poultry I find it a good plan to spray houses, perches and drop boards once a week with kerosene to keep away mites. As kerosene is so readily evaporated, I often put in some good lice killer, the scent of which helps to keep them away, and for lice, dust the feathers good with an insect powder. I do this about three days before the hen hatches, thus ridding her of lice before they have any chance to get on the young chicks.

When chicks get white diarrhoea I put two teaspoonfuls of camphor and two of laudanum in three gallons of water and put some of this in the drinking water.

Have never had any rump or rheumatism among my birds, so cannot conscientiously recommend a remedy for these diseases, and for others which often make sad havoc with the flock. Of course, when we see a bird that is sick, the best thing to do is to take it away from the others to prevent contagion should it prove to have a contagious disease.

Poultry has made me more clear profit than either cows or hogs, and the work is so much lighter that any wide awake woman can run a poultry farm, after the buildings and yards are all built and arranged. Besides, it requires but a small amount of capital to start in the poultry business.

Never having used an incubator or brooder I know but very little about them, but have neighbors who have good success with them. I have always used Nature's incubators—the hens—keeping about two dozen hens of the Plymouth Rock or Rhode Island Red breeds to do the hatching. When a hen gets broody I move her to a place made on purpose for setting hens, where no other birds can disturb them. They do better when moved after night, as they will often leave the nest if put on in daylight. Then, after Biddy gets used to her nest, the eggs are put under her. Give their feed to them in straw, for they need the exercise in getting it, and will scratch quite diligently to get what they require. Keep grit and water in the pen, and if eggs are fertile, a good hatch will follow.

I try to set two or three hens at one time, giving the chicks all to one hen and setting the others over if the weather is not too warm. I do not often hatch any chicks after June 1, as the weather by that time is pretty warm and it is getting rather late.

The early hatches are the ones from which to select show birds. Attending poultry shows is a fine advertisement, as so many people from different parts of the country see the birds and know just what each exhibitor has, and if they should want a fine bird or two, or a setting or two of eggs, they are sure to write for them, and invariably write the winners of first prizes, for everyone wants the best.

In working around my poultry I am always quiet, never make a quick, abrupt motion, and never throw at or scare them; always speak to them in a low tone. In this way I win the confidence of my birds and they will eat from my hand. A fright will stop hens from laying, and I find one gets the best returns from the flock by treating them kindly. I love to have my birds come to me instead of running from me, as I have seen them do in a great many instances.

Next summer when you are chopping cockleburrs out of the corn and the hot sun pours down and the jug is on the other side of the field, just remember the text, "Hoe, every one that thirsteth."

Give Bad Politics Fresh Air.

"The treatment for bad politics is exactly the modern treatment for tuberculosis—it is exposure to the open air," declares Governor Woodrow Wilson of New Jersey.

"One of the reasons why politics took on a new complexion in the city in which the social center movement originated," continues Governor Wilson, "was that the people who could meet in the school houses at night knew what what was going on in that city, and insisted upon talking about it; and the minute they began talking about it, many things became impossible, for there are scores of things that must be stopped in our politics that will stop the moment they are talked of where men will listen."

"I do not wonder that men are exhibiting an increased confidence in the judgments of the people, because whenever you give the people a chance, such as this social center movement has given them in the school house, they avail themselves of it. This is not a false people; this is not a people guided by blind impulses; this is a people who want to think right, whose feelings are based upon justice, whose instincts are for fairness and for the right."

"It seems to me that the school-houses dotted here, there and everywhere over the great expanse of this nation, will some day prove to be the roots of that great tree of liberty which shall spread for the sustenance and protection of all mankind."

Spanish Peanuts.

Several subscribers have recently asked for information regarding the Spanish peanut. The value of this plant was recently fully discussed in The Southwest Trail, a publication issued by the agricultural department of the Rock Island Railroad. A copy of the paper can be had by addressing H. M. Cottrell, industrial commissioner of that road, La Salle Street Station, Chicago. Mr. Cottrell says of this plant:

"The Spanish peanut is one of the best of drouth-resisting plants. It waits for rain. In 1911, in Illinois and in Oklahoma, it stood green and fresh for 45 days without any rain and under intense hot weather. After rains finally came it grew rapidly and made a good yield—40 bushels an acre in Oklahoma. It stood still 60 days, waiting for rain in New Mexico, and then grew and gave a fair yield."


"It yields well under a good rainfall. The better the rainfall, the larger the crop, if the land is well drained. In Louisiana 100 bushels an acre have been raised under a favorable rainfall, and in Arkansas from 95 to 172 bushels an acre have been produced."

"It will give a profitable yield on almost any land except that which is wet or sour. It prefers a soil strong in lime. It gives a fair yield on land too poor to raise corn and a heavy yield on fertile soils. Like alfalfa, clover and cowpeas, it enriches the soil on which it grows."

"The whole plant, vines and nuts, cured together, is one of our richest feeds, containing over 18 per cent of protein, over 21 per cent of fat and 6 per cent of mineral matter. It is appetizing to all kinds of farm animals, and laxative like alfalfa hay, and good pasture."

"It is easy to raise. Farmers like to handle it and usually increase their acreage after a first trial."

KANSAS FARMER will be glad to hear from any reader who has had experience in growing and feeding this crop.



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AMERICAN STEEL POSTS & GATES

LIVE stock, protected with woven wire fence, is the rock foundation of profitable farming.

Sheep on the meadow—sheep on the stubble make good use of wasted grain and the volunteer crop of weeds. When the clover is cut turn in the sheep. They use it to good advantage and with profit to you. The cost is nothing. Sheep on the meadow mean money in the pocket. The sheep, like the hog, is a farm machine, used to work over products on the spot where they are produced. One acre of good meadow carries eight to eleven sheep. Dividing the farm closely with the best quality of woven wire fence is a positive economic factor. That quality is found in

ROYAL FENCE—a continuous stay fence of big wires woven together with the Royal loop. A fabric of great

strength and resiliency, galvanized and tested to ensure the utmost durability and efficiency.

Royal Fence Dealers Everywhere

Tell him your particular needs. He gladly will show you the different styles of Royal Fence adapted to all farm purposes, so you may make your own comparison. He buys in large quantities, gets the lowest carload freight rates and can sell you good fence at the lowest possible price.

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Send for copy of "Royal Fence" also book "How to Make the Farm Pay," especially illustrated, devoted to the interests of farmers and showing how fence may be employed to enhance the earning power of the farm. Furnished free upon application.



\$1500 Profit or more for you on every acre of corn

You can do this easily. Instead of getting 40 bushels per acre, get 70 or more. No extra work, practically no more expense. Hundreds of farmers now raising bumper crops, making big profit. You can do the same. The secret of it is—Test your seed corn with


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The safest, surest, quickest and best tester on the market. Separates perfectly the weak seed from the strong. Shows exactly which to plant. Holden's Ideal Testers are used by leading Agricultural Colleges and Experiment Stations. Endorsed by leading corn growers everywhere. It's the kind you should get.


Valuable Corn Book Free.

Write for it today. It's full of corn facts that mean money to you. Tells how to test, how to plant, how to cultivate, how to overcome missing hills, barren stalks and nubbins and gives all the latest ideas on corn growing. Address

National Seed Tester Co.,
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If you are interested in pure-bred poultry, we want you to know that you can secure roosters, hens, mated pens, or eggs for hatching from any of the best breeds of poultry in the United States without spending one cent of your own money.

We can furnish Plymouth Rocks, Rhode Island Reds, Orpingtons, Wyandottes, Brahmas, Cochins, Minorcas, Hamburgs, Leghorns, Langshans—in fact we can start you in any breed you wish. If you want to secure eggs for hatching this spring, write us at once for our plan of how to secure them without spending a cent of your own money. This plan is so simple that the success of any boy or girl interested in securing a start in pure-bred poultry is certain. Write us at once, stating your wants in full, and you will get a prompt reply. Address **FREE POULTRY DEPARTMENT, P. O. Box 368, Topeka, Kan.** References, German-American State Bank, Topeka, Kan.



Buy an Engine!

= NOT A PRETTY CATALOG =

DID you ever stop to think who pays for the big ads which cost enormous sums of money and the expensive catalogues sent you "free" by engine manufacturers? Who pays for the costly three-color half-tones and the princely salaries of their \$10,000 a year advertising writers? Why, the farmer who buys the Engines, of course. This means that from \$30 to \$100 must be added to the price of every Engine the farmer buys because these bills must be paid. This is all unnecessary expense. Pretty catalogues and fine printing do not make a good Engine, but it costs "like sixty." We do not favor such "monkey business." We write our own ads and we don't buy fine printing, but we do build the best Engine in the world for the money.

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We will send you OUR GAS ENGINE from 1½ to 15 horse power under a positive, absolute and legal binding guarantee signed by the president of this concern, that you will find this ENGINE to be the best, most practical, easiest running Engine that you can buy for the money. We'll guarantee it to be perfect in construction and to replace, free of charge, at any time in five years, any part or piece that should prove defective.

WRITE US TODAY so that we can send you by return mail all the facts concerning our FARM ENGINE. Don't expect a beautiful, expensive catalogue, for we don't have them, but we will send you lots of good, reliable information regarding Gasoline Engines and the lowest prices offered by any concern in the United States, quality considered.

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How? It requires one-fifth less seed. It increases the yield. It raises the grade.

The Monitor is the only Drill that deposits the seed at the bottom of the furrow in two rows, at an even depth, with a uniform covering of moist earth.

By this method you secure more normal plants to the acre, as all the seed grows; comes up at the same time; has ample room to stool; withstands drouth; and matures evenly.

This is accomplished by our patented device, which drops the seed in front of the bearing with the downward turn of the disc.

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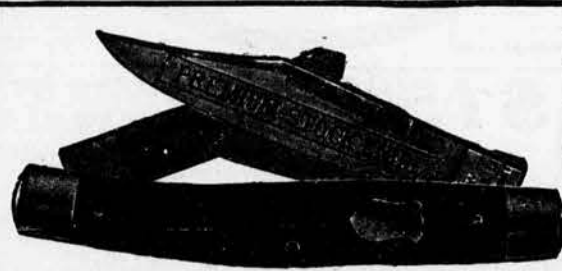
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MOLINE, ILLINOIS

Department No. 4

Special Knife Offers

We illustrate here two of the best and handiest knives for a farmer or stock breeder that we have ever been able to secure.

The blades of both these knives are made of the finest tempered tool steel, finely ground and highly polished. They are brass lined, with German silver bolsters and Stag horn handles. Either would cost from \$1.00 to \$1.25 in any retail store.



Premium Stock Knife.

Illustration about two-thirds actual size.

Three blades, fully warranted.

The Punch-blade Knife, (the illustration of which is less than one-half actual size, has one large blade, 2½ inches long, and a special punch or reamer blade, 2½ inches long. This blade may be used for making various sized holes in leather for buckles, rivets, belt lacings, etc.

This illustration shows the actual size of holes that may be cut with the leather punch blade.



Both these knives are guaranteed to us by the manufacturers, and we will replace either of them, without charge, if they prove defective in any way.

We will send one of these knives, prepaid, to anyone sending us one new subscriber to

KANSAS FARMER at the regular subscription price of \$1.00. They will be sent prepaid to any old or new subscriber to KANSAS FARMER sending us \$1.00 for a year's subscription, and 35 cents extra, or either will be sent prepaid to any paid-in-advance subscriber to KANSAS FARMER for only 65 cents.

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KANSAS FARMER STOCK KNIFE.



Reduced Size.

This is the handiest and best stock knife on the market. Buffalo horn handle, German silver inlaid. Large scimitar blade, hoof blade and smaller pen blade. Brass lined. A beauty and fully guaranteed. Would cost \$1.00 to \$1.25 in any retail store. Sent prepaid to any subscriber of Kansas Farmer for only 65 cents. Given free for one new yearly subscription at \$1, and 15c extra for postage.

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Ask your dealers for brands of goods advertised in Kansas Farmer.

100 Strawberry Plants, 2 varieties, prepaid, 75c; 300 for \$2.00. Send for catalog of fruit trees and berry plants. Holsinger Bros., Dept. 58, Rosedale, Kan.

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For roads, ditch filling, farm work, etc. Send for descriptive circular.

LARIMER MFG. COMPANY
EOLA, (near Chicago), ILL.

Standard Books

For the farmer and breeder for sale at this office. Send for catalog.

Address
KANSAS FARMER, TOPEKA, KAN.

FARM FISH PONDS

Is It a Needless Waste of Money — Two Views

Our Lawrence, Kan., subscriber writes: "When William Miller made his protest before the farmers' institute against the game and fish law of Kansas as being a needless waste of money, he voiced the sentiment of nine out of ten farmers in the state.

"The absurdity of Professor Dyche's 'fish pond on every farm' idea strikes forcibly the man who has difficulty in getting sufficient water in the bottom of a 40-foot well, and more so to the one who has to haul water from a creek or well half a mile away for a few head of stock.

"The artificial fish pond is the 'dream of boyhood,' or the hobby of the rich who care for its pleasure more than they do its revenue. Washed out in times of floods and dried up in times of drouth has been our observation of almost fifty years in Douglas County. To my knowledge there have been a dozen or so such ponds constructed in the vicinity of Lawrence, and nearly all have failed from the above causes. If there is any financial revenue derived from the few remaining, I do not know it."

Here is what Professor Dyche says:

"Will Mr. Miller give some account of his ponds? How deep were they? How large? What was the water supply? Did any water from barnyards or other polluted water run into the ponds? What plants did they contain? What kind of fish did he experiment with? What other kinds of animals besides fish were in the ponds or had access to them? With such information before it, this department might be able to make some suggestions to the owners of ponds as to the causes of Mr. Miller's failure, and give some other information that would help those who desire to engage in pond fish culture.

"In another statement that does not quite harmonize with the first, Mr. Miller further states that 'there are four things that are absolutely necessary to raise fish in ponds—plenty of fresh water, stone, gravel and sand.'

"In a five-acre pond at the state hatchery that had a soft, muddy bottom and barely enough water to keep it to its normal depth, over 50,000 young bass and crappie were raised during the past summer, and for their age were the largest we have ever known. Some of the bass that were spawned in the spring (May) were seven inches long in September. From another acre pond with soft, muddy bottom we took 14,600 yearling crappie last spring—one season's crop.

"Every pond must have water in it, and the water must be decently clean, but this does not necessarily mean that a stream of water, or even a spring, must continually flow through or into a pond. Enough water to keep the pond from five to six feet deep in its deepest places is sufficient. The water should be clean, i. e., not affected with sewage from barnyards or polluted from other sources. There are many ponds fed by small springs, pumps, or from water diverted from creeks or other ponds, as well as sky ponds, that are good for fish. Why stones, gravel and sand are 'absolutely necessary' is not very apparent. On this subject, as in the other cases, Mr. Miller makes bare and unqualified statements, but gives us no facts.

"Can Mr. Miller furnish some statistics from a body of water with a rocky, gravelly, sandy bottom that will equal the above?

"The above ponds had loamy and muddy bottoms that supported a splendid growth of water plants and mosses. The fish made their spawning beds in loamy places that were more or less covered with small plants and their roots.

"Mr. Miller further says: 'Farmers in the country have tried raising fish in ponds, but have failed to make the business a financial success.'

"This department is in communication with about all the pond owners in the state. Thus far very few have tried to make money out of the business; most of the owners of ponds have been raising game fish for pleasure, sport and home table use. The business is new to most of them and they have of necessity made some mistakes; yet many good fish have been raised. It is part of the business of this department to assist persons who desire to raise fish,

and we purpose to give to this work the best of our time and ability. However, we must know something of the conditions of failure before we can suggest remedies that will help those who are trying to succeed. The department has already during the past year issued two bulletins, one on 'Ponds' and one on 'Pond Fish,' and is preparing one on 'Pond Fish Culture.' We hope by this means to give much needed information to persons interested in pond and creek fish culture."

Teaching Agriculture in School.

What shall we teach in agriculture? Teach farm crops, live stock, soils, dairying, poultry, farm economics and rural sociology. Emphasize the dominant crops and farm interests of a community. Is it necessary for the school to have a demonstration farm? No. It is desirable, but not necessary. Teach the theory in the class room and laboratory and have the boys use a plot of ground on the home farm for demonstration. If, for example, the crop under consideration is corn, after working out in the laboratory the best scientific methods for selecting and testing seed corn, preparation of the seed bed, how and when to plant, cultivation for conserving moisture and killing weeds, etc., have each boy plant an acre or more of corn on his father's farm. Have the boy select the seed, prepare the seed bed, plant the corn, and cultivate the soil according to the methods worked out in the school. Where this has been done the boys have raised 10 to 100 per cent more of corn per acre than the fathers. This method puts the entire community at school. I know one high school principal who proved by his records that his high school increased the wealth of the community \$10,000 in one year. The question of the community supporting that high school was solved by making the school function the higher social and economic levels of community life.—PROF. E. L. HOLTON, Kansas State Agricultural College.

Secret of Pure Milk.

The careless use of the pail is the chief cause of impure milk. As the milk passes from one utensil to another it gathers more and more bacteria. Pails and other utensils are usually washed with hot water and soap. But after ordinary washing there will be left clinging to such utensils many bacteria which are ready to develop as soon as fresh milk is added to furnish proper food and conditions. Undoubtedly most of these bacteria are lactic acid producers, and although harmless will cause an early souring of the milk.

These various contaminating factors can be largely lessened or completely eliminated. The most of the bacteria from the fore milk can be thrown out by rejecting the first few streams. Dust in the air can be reduced by exercising care as to the time of feeding and bedding. The number of germs from the animal and the milk can be reduced by cleaning and moistening the udder and the flanks of the animal, by using a pail with a small opening and by requiring the milker to wash his hands and use clean clothes. The use of steam or scalded water in washing the dairy utensils will entirely exclude the germs from this source.

NOTICE TO SUBSCRIBERS.

This is the season of the year when thousands of our subscribers are sending in renewal orders for their subscription to KANSAS FARMER.

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YOU NEED A BERMUDA PASTURE. Free booklet. Write F. A. Mitchell & Son, Route 5, Chandler, Okla.

SEED CORN—HILDRETH'S YELLOW Dent. Write originator, breeder. C. E. H. Hildreth, Altamont, Kan.

ALFALFA SEED—CHOICE, NON-IRRI-gated seed, raised in the famous Artesian Valley, \$8.50 per bushel, if ordered at once. J. R. Reynolds & Co., Meade, Kan.

STRAWBERRY PLANTS, \$2 PER M.; blackberry plants, \$6 per M.; asparagus plants, \$3 per M.; general line; price list free. Write today. The Krider Nurseries, Middlebury, Ind.

BERMUDA ONIONS PAY \$300 TO \$400 per acre winter crop. Summer crop, cotton, corn, cane, wheat, High, dry climate. W. H. Foote, 2 Secland Bldg., Dallas, Texas.

FOR SALE—RED TEXAS SEED OATS—First prize at Brown County and Hutchinson State fairs, 1911. Seed seltz and Boone County White corn. Plymouth Rock cockerels. I refund your money if dissatisfied. E. E. Hazen, Hiawatha, Kan.

PLANTS, BULBS, ROSES AND EVER-greens. High grade stock at popular prices of the best plants and bulbs adapted to this climate. Direct from the grower. Send for free price list. Bonner Springs Nurseries, Bonner Springs, Kan.

FOR SALE—PURE-BRED TEXAS SEED oats. Re-cleaned, sacked, f. o. b. Florence, 75c per bushel in lots over 10 bushels. These oats took first premium at Hutchinson State Fair, 1911. A. Rahn, R. 1, Florence, Kan.

WANTED—ORANGE AND AMBER CANE seed, Red Texas oats, Red and White Kafir corn, common, Siberian and German millet, Milo maize, Jerusalem corn and first-class Alfalfa seed. If any to offer, mail samples and state quantities. The Barteldes Seed Co., Lawrence, Kan.

REAL ESTATE.

WRITE W. D. STEMMONS, GOLDEN City, Barton County, Mo., for prices on good farms.

QUICK SALES, EXCHANGES—LARGE property list. Write John L. Maurer, Omaha, Neb.

FOD SALE—50 A. ALFALFA LAND, IF interested, write for list of ten 50 acre tracts near Salina. V. E. Niquette, Salina, Kansas.

FOR SALE—QUARTER SECTION WEST-ern Kansas land; good soil; cheap. Write Sherman Williams, Syracuse, Kan.

LOST! AN OPPORTUNITY IF YOU don't write your wants in real estate to S. H. Davis, Leeton, Mo.

GOVERNMENT FARMERS WANTED—Examination April 10; \$60 monthly; many needed. Write, Ozment, 44F, St. Louis.

FOR SALE BY OWNER—800 ACRE stock and alfalfa farm, Sumner Co., Kan.; improvements first class. No commission. For terms, address Box 55, Milan, Kan.

FOR SALE—800 ACRES OF LAND, well improved. For further particulars, write or call on C. W. Grey, Owner. Address, C. W. Grey, Modoc, Scott Co., Kan.

FOR RENT—640 A., ADJOINING CITY, improved stock farm; would make fine dairy farm; will rent part or all of it. I have alfalfa and timber. Cash rent wanted. Write Ed Lawson, Norton, Kan.

FARMS ARE CHEAP. PRICE SLOWLY advancing. Garden spot. Sure money makers. Catalog on request. Interlaken Realty Co., Interlaken, N. Y.

SELL YOUR PROPERTY QUICKLY FOR cash, no matter where located. Particulars free. Real Estate Salesman Co., Dept. 77, Lincoln, Neb.

WYOMING! IDEAL COLONY! ENOR-mous acreage. Abundant water. Completed project. Great crops. Low prices. Deeded and Carey Act lands. Write, Reliable. Wyoming Development Co., Cheyenne, Wyo.

BEAT IT—IMPROVED LOGAN COUN-ty, Kan., alfalfa and stock farm, 160 acres, \$2,500; \$1,000 cash; balance time. Florida Everglade bargains. H. M. Davis, Ft. Lauderdale, Florida.

FARMS WANTED—WE HAVE DIRECT buyers. Don't pay commissions. Write describing property, naming lowest price. We help buyers locate desirable property free. American Investment Association, 43 Palace Bldg., Minneapolis, Minn.

WI SO LIT HNO HOI SO ELIMH proved farms for sale. Some of the finest farms in Kansas and other states on easy terms and very low prices. We list only what we consider as genuine bargains. Garver & Co., Box 142, Topeka, Kan.

FOR SALE OR EXCHANGE—160 ACRES, irrigated from government canal; 3½ miles from good town, Scotts Bluff Co.; one 80 deeded, one homesteaded 80; well improved; all fenced high-tight; 65 acres in alfalfa, 18 acres fall wheat. Address, Lock Box 145, Mitchell, Scotts Bluff Co., Neb.

COME WHERE THE BIG, RED STRAW-berries grow. Net returns per acre to growers last year from \$450 to \$600. On or about May 1 we will place on the market a tract of fine strawberry land, subdivided into 5 and 10-acre tracts at from \$150 to \$250 per acre with free permanent water rights. Terms. Write us. Whitaker Bros., Steamboat Springs, Colo.

IF YOU WANT TO SELL YOUR FARM—Among the more than 60,000 farm homes into which this paper goes every week, there may be a man or woman looking to buy just what you have to sell. Did you ever notice that every one who wanted to sell his farm, sooner or later found a buyer? When the offer of a farm becomes known more and more, the chances for a quick sale at the desired price get better and better. You can't make your offer known to possible buyers any more cheaply than through an advertisement on this page. The cost is small and the value big. Write for special low land advertising price. Address simply Kansas Farmer, Topeka, Kan.

DOGS.

COLLIES: 100; PUPPIES, BROOD bitches and broke male dogs. W. R. Watson, Oakland, Iowa.

SPECIAL BARGAINS ON FEMALE Scotch Collie pups, pedigreed. James Parker, Woodston, Kan.

TWO FOX TERRIER FEMALES FOR sale, one pup and one 2-year-old; rather stock; cheap. A. D. Willems, Minneola, Kan.

TELEGRAPHY.

TELEGRAPHY—MORSE AND WIRE-less—Railway accounting (station agency) taught quickly. R. R. dispatchers' and Western Union wires and complete wireless station in school. Splendid opportunities. Graduates assisted. Living expenses low—may be earned. Largest and oldest school—established 37 years. Investment, \$25,000.00. Correspondence courses also. Catalog free. Dodge's Telegraph & Ry. Institute, Elm St., Valparaiso, Ind.

MISCELLANEOUS.

FOR SALE—25,000 Hedge posts. H. W. Porth, Winfield, Kan.

\$800 "WEBBER" BABY GRAND PIANO for school or lodge, \$135; ask terms. Merchants Storage Co., Topeka.

AGENTS WANTED—Nice business. No capital needed. \$25 to \$300 weekly profit. Write quick. Either sex. Address, A. I. Dexter, Springfield, Mo.

SOMETHING NEW—CLEAN YOUR OWN wall paper. For \$1 I will send you a recipe that will remove all dirt. Lock Box 35, Delphos, Kan.

STRADIVARIUS VIOLIN FOR SALE—Excellent sweet tone. Miss Bertha G. Mardis, Route 5, Rosedale, Kan.

PURE BRED POULTRY

ANCONA COCKERELS, RUNNER drakes. Mrs. Frank Wallace, Weldon, Ia.

EGGS—INDIAN RUNNERS, WHITE Wyandottes. Farm raised. Have in each. Choice pens, 15, \$3; utility yards, 15, \$1. Sunny Hill Farm, Atlanta, Ill.

ROSE COMB RHODE ISLAND REDS—Winning first prizes at five state and eight association shows. Stock for sale. Mrs. F. C. Krueger, Charles City, Ia.

12 FINE BARRED ROCK COCKERELS—E. B. Thompson's strain. Cockerel or pullet mating. Large, vigorous, heavy boned fellows. S. J. Bain, Moundville, W. Va.

FOR SALE—PRIZE WINNING SINGLE Comb White Leghorns. Stock, \$3 to \$25 each. Eggs, 60c. Babs, 12c. Clara Colwell, Smith Center, Kan.

GREAT BARGAIN IN BABY CHICKS—Money makers; finest thoroughbreds; 10,000 for sale from popular varieties; guaranteed alive or replaced, 12c to 50c each. C. Colwell's Hatchery, Smith Center, Kan.

EGGS FOR HATCHING White Leghorns and Buff Orpingtons. Farmers' prices. Baby Chicks. Circular Free. **PAUL TAGGART,** White City, - Kansas.

MAMMOTH BRONZE TURKEYS—YOUNG toms, \$5; hens, \$3 and \$4; Barred Plymouth Rocks, young cockerels and 2-year-old this summer, \$1 to \$1.75. Eggs in season. Geese eggs, 10 for \$1.25; chicken eggs, \$1.50 per 15. Mrs. Mary E. Gibson, Route 1, Eureka, Kan.

FOR SALE—ABSOLUTELY THE BEST prize winning Rose Comb, Rhode Island Reds, line bred from stock that has been winning first at Chicago for years. Stock, \$3 to \$25 each. Eggs, \$1 to \$5 per setting. Babies, 15c. C. R. Colwell, Smith Center, Kan.

NOTICE—BUSINESS HAS BEEN GOOD with me, and I will not have any more poultry for sale this season. I have also taken orders for all the eggs I will have to spare this season. Next fall I will have plenty of Barred Plymouth Rocks, S. C. Rhode Island Reds and S. C. White Leghorns for sale. Joseph B. Moyers, Topeka, Kan.

THE STRAY LIST

STRAYED, NOVEMBER 11, ONE IRON gray mare, coming 6, blind in right eye. Earl Burger, Menlo, Kan.

B. B. REIMER, COUNTY CLERK, Marion County, Kan. The following described stray was taken up by me, the undersigned, July 25, 1911, on S.E. ¼, section 16, township 17, range 2 east, in Marion County, Kan.—One red bull, about 3 years old, weighing about 1200 pounds, without any brand or mark; properly advertised; appraised value, \$30. Frank C. Ewert.

CARSON LANE, COUNTY CLERK, Miami County, Kan. Taken up, on the 27th day of October, 1911—One light red heifer, coming 3 years of age, white on belly and on flanks, both ears clipped and without horns, valued at \$35; by S. J. Russell, in Sugar Creek Township. Postoffice address, Draxel, Mo.

I HAVE TAKEN UP A STRAY COW ON my farm, known as the Mossman farm, one mile northeast of Erie, Kansas. Description: Red roan, will weigh about 700 lbs.; one crooked horn on left side, and blind in right eye; is about five years old. Can be found at the above-named farm. F. C. Currie, Erie, Kan., R. F. D. 3.

W. M. TRUITT, COUNTY CLERK OT-tawa County, Kan. Taken up, by James Allison, Lamar, Kan.—One red cow, 5 years old brand on left hip (illegible), value \$22.50. Taken up Dec. 9, 1911.

GUY W. ADAMS, COUNTY CLERK OF Greeley County—Taken up, by W. C. Finch, Tribune, Kan., on the 5th day of February 1912, two horses; one a sorrel, weight 850 pounds, star, branded J. B. left hip; appraised value, \$50; the other a bay or roan, weight 850 pounds, blaze face, white hind legs and feet, U left thigh; appraised value, \$35.

GUY G. ADAMS, COUNTY CLERK, Greeley County—Taken up, by Frank Effinger, Horace, Kan., on the 10th day of February, 1912: One red steer, weight 600, white face, branded I. O. on left side; appraised value, \$25. One red steer, weight 600, T. O. left hip, ears cropped; appraised value, \$25. One red steer, weight 600, white face, branded S. Z. left hip; appraised value, \$25. One red steer, weight 750, white face, branded M/2 left hip, slash in brisket; appraised value, \$27.50.

FIELD NOTES.

E. R. Morgan, Blue Rapids, Kan., has a 3-year-old imported Percheron stallion which he is offering at a bargain price, provided he is taken before March 1, next. This horse is guaranteed and is offered at less than he could be bought from the importer. Note his advertisement and write.

We wish to remind our readers that J. D. Spangler, of Sharon, Kan., will sell 50 head of tried sows and gilts on Tuesday, February 20. If, for any reason, you cannot attend this sale, bid sent to W. Devine, representing Kansas Farmer, will be handled with care. All breeders and farmers are requested to come if possible to do so. Please remember the date is February 20, and Sharon, Kan., the place.

Clay County Farms.

This week we start advertising for the J. M. Dever Land Company, of Clay Center, Kan. Mr. Dever has the best posted real estate men in Central Kansas. He lists only such lands as will be priced reasonably. He was raised in Clay county and knows every foot of land in the county. Write him at once.

Two Good Duroc Sales to Attend.

One of the best chances to buy Duroc Jersey sows of quality and rich breeding will be at the Ward Brothers' sale, to be held at the farm near Republic, Kan., on Monday, February 26. Buyers will be met at Republic and Scandia, Kan. The day following W. E. Monnesmith sells at Formoso, Kan. Both sales will be full of attractions, and the offering will be in ideal condition.

Barnhart's Percheron Sale.

On Thursday, March 7, at Butler, Mo., Mr. J. W. Barnhart will sell 25 Percheron mares and stallions at public auction. This offering will include the best horses on the farm and will constitute the best offering to be made in the state this season. If the judgment of good horsemen is to be accepted. This stud of horses contains more brilliant blood than any other stud in the state, and is headed by Cooing 5233, said to be one of the best bred and best individual Percheron stallions in the West today. Remember the date. Ask for a catalog, and note the superior quality of this offering.

Lohman's Jack Bargains.

Limestone Ridge Farms, owned by Isaac C. Lohman, Route 3, Turney, Mo., is offering some special bargains in Percheron stallions and Mammoth Jacks and Jennets. These Jacks are of the best Missouri and Kentucky blood and among them is a 3-year-old that is a show animal and should go to head a herd of Jennets. The Percherons are 4 and 6 years old, proved breeders, gentle and harness broken. They are black and weigh 1650 and 1750 pounds. There is also a bay saddle stallion, 3 years old next May. Note the prices on these animals as shown in Mr. Lohman's advertisement. Every animal is guaranteed a breeder.

Mr. John Sparrowhawk, of Wakefield, Kan., who has been breeding Clydesdale horses for so many years and who enjoys having their merits advanced on all occasions, disclaims the authorship of the article on "The Clydesdale," which appeared on page 9 of Kansas Farmer issue of February 10. He explains that the ideas there presented are those of A. Galbraith, but that he fully endorses them, and sent the article to Kansas Farmer that others might get the benefit of them, as well.

They Like the Queen.

We have just received a copy of the new catalog of Mr. P. M. Wickstrum, proprietor of the Queen Incubator Co., Lincoln, Neb. It is a very interesting book for poultry people. One of the most interesting features in it is the remarkable number of letters from people all over the country who are using Queen Incubators, and what they say about the Queen. "Not one cripple or sickly chick from 200 hatched in a Queen," writes one. "The thermometer doesn't vary a half degree all night," writes another. "I never lose any sleep with the Queen," writes another. "I ran the Queen at a level when the ice froze one inch thick in a pan under it, and got 112 chicks out of 114 eggs; raised 110 of them," writes another. It is remarkable how many interesting letters there are in this catalog from people who are using the Queen, and the amount of information they give as to successfully hatching and raising poultry. Mr. Wickstrum will send a copy of this book free of charge to every reader of Kansas Farmer who will mention this paper. Just address Wickstrum, Queen Incubator Man, Lincoln, Neb.

A. J. Erhart & Son's Sale.

On February 22, at Adrian, Mo., A. J. Erhart & Son will offer at public auction 65 head of large type Poland Chinas, probably the best lot of sows that will be sold in one sale this year. Twenty sows bred to Major B. Hadley, the grand champion at the American Royal, 1911; 20 bred to Young Hadley, a son of Big Hadley; 10 bred to Grand Wonder, one of the best sons of old A. Wonder; 10 bred to Big Spot, and 5 bred to King Blain, one of the great breeding sons of Blain's Wonder. The sows are all large type breeding from such sows as Expansion, Grand Look, Big Hadley, Blain's Wonder, Designer, Expansion Wonder, Long John, Long King and Longfellow. Twenty head of tried sows are the tops of the Green Lawn herd and the H. H. Harshaw herd, and are sold on an absolute guarantee. Send for catalog, and arrange to attend the sale. O. W. Devine will represent Kansas Farmer and any bids sent to him will be treated fair.

BARGAINS IN LANDS

HAMILTON, GREELEY, KEARNEY COUNTY LANDS.

Good, dark loam, smooth soil, no rock or sand hills, irrigated or unirrigated, large or small tracts in alfalfa, wheat, beet, broomcorn lands, where cattle, horses, sheep raising is very successful. Who wants a home of their own? Mr. Homeseeker or investor, let us hear from you in regard to what you are looking for, and full particulars, prices and literature will be sent free. Good terms and honest prices. Write or call and see.

HOSTETLER & COMPANY, Syracuse, Kansas.

WE TRADE OR SELL ANYTHING ANYWHERE. The Realty Exchange Co., 18-22 Randall Bldg., Newton, Kan.

Jewell County—320 acres, 5 1/2 miles from Esbon; good improvements. Must sell quick. Address **J. A. Cole, Esbon, Kan.**

WANTED—Farm in northeast Kansas in exchange for well improved 320 in Washington Co. Write Lock Box 71, Morrowville, Kan.

800 ACRES for sale or exchange; well improved, alfalfa; want smaller tract or hdw. and implement stock. For full particulars address R. R. Box 30, Wayne, Kan.

25-Room Flat, in fine condition, always rented, to trade for western land. What have you? O. M. Elliott, 435 Kansas Ave., Topeka.

CHOICE DAIRY OR STOCK FARM—320 acres. Small payment. A dozen other bottom and upland farms, \$45 to \$90. All near Topeka. J. F. True, 1620 Boswell, Topeka, Kan.

EASTERN KANSAS BARGAINS—Improved stock, grain farms; \$30 to \$65 per acre. Write; list free. J. E. Calvert, Garnett, Kan.

WE HAVE a nicely-improved 285-acre farm 3 miles from Garfield, Kan., that we can sell you, worth the money, or trade for a good stock farm in east part of state. Kimmel & Garth, Larned, Kansas.

TRADES WANTED We want to list properties that owners want to exchange. Write your proposition to Owners Exchange, Salina, Kan.

BUY YOUR HOME NEAR CHANUTE, KAN. where you get good land, fine market, delightful climate, at \$30 to \$50 per acre. Write today. Home Investment Co., Chautauque, Kan.

LANDS FOR EXCHANGE—Some good propositions for sale or trade in this locality. Offer us anything good. Write for descriptive book on Meade county, with prices. HARRIS & DAY, Meade, Kan.

FARMS AND RANCHES for sale or trade. Corn, wheat, alfalfa and pasture land at from \$10 to \$40 per acre. You should buy now. Let us tell you why. Sperry & Olson, Hill City, Kansas.

GREENWOOD COUNTY FARMS and well-grassed stock ranches, in the corn, clover and bluegrass county, for sale at low prices on liberal terms. Write for full information.

J. G. SMITH,
Hamilton, Kansas.

NO. 65—280 ACRES, adjoining Coldwater, 200 in wheat, 1/2 goes, second bottom land fine for alfalfa, full set improvements. For quick sale \$45 per acre. Easy terms on half. TAYLOR & BRATCHER, Coldwater, Kan.

FOR SALE—Good terms, 625 acres, near Ellis, Kan., 430 acres in cultivation, 400 of this wheat, balance pasture. Black loam soil. Fenced, granaries, barn, 8 room house, supply. Two granaries, barn, 8 room house, other good buildings. Good condition. Write J. M. COUNCIL, Nortonville, Kan.

I AM OFFERING one of the best little farms in Barton County for only \$125 per acre. There are 154 1/2 acres, 8-room house, barn for 16 head of horses and 40 tons hay; 5 acres good timber, 100 fruit trees of all kinds, 24 acres alfalfa which cut 4 tons per acre last year. Half cash, balance to suit. This will go quick. **L. A. Harper, Co-Operative Realty Co., Holsinger, Kan.**

EASTERN KANSAS FARM BARGAIN. 160 acres, 2 miles from Osage City, Kan., 100 acres under cultivation, 1 acre orchard, balance native grass pasture and meadow, farm all smooth, 8 room house (new), good cave, new barn 20x30 feet, with loft, cow barn, hen house, corn crib, hog and cattle sheds, good water, close to school; all good alfalfa land. This is a bargain. Price, \$55 per acre until Feb. 15. **J. C. RAPP & CO., Osage City, Kan.**

CHOICE WHEAT FARMS.

IN RUSH COUNTY, KAN. 320 acres, unimproved, 3 1/2 miles from market, at \$20 an acre.

157 acres, all in wheat, 1/2 crop with place, at \$30 an acre.

These are genuine bargains for quick action. Write for list.

JAMES H. LITTLE,
THE RUSH COUNTY LAND MAN,
La Crosse, Kansas.

80 Acres. All Alfalfa!
My beautiful home place, 1 1/4 mile of Co. seat, on auto road; 1 mi. of large school; large new buildings, orchard, grove at house, all irrigated, plenty water. Sell over \$2,000 in alfalfa yearly. Finest climate in state. Beautiful to irrigate when sun shines. Woven wire 5-ft. fence all around. Been listed at \$225 per a. For quick cash sale, \$200 per a. Will pay all expenses of visit if not as represented. Close to Ordway. Write Owner, Iowa Farm, Ordway, Colo.

FOR SALE

1,700 acres of my 4,400-acre ranch in Kearney County, Kansas, on the Arkansas River and Santa Fe R.R.; 700 acres alfalfa land, 100 acres in alfalfa; all fenced with three and four wires; 5-room frame house, stone basement; barn 25x50 feet, part stone basement; stock sheds with iron roof, all well built and 300 yards south of Sutton Plag Station; wells at house, barn and in pasture. Reason for selling: Too big for my foreman to look after. John Shinkle will show place. Price, \$20 per acre net to me. Can be in payments.

H. H. SMALEY, Springfield, Mo.

80 ACRES choice irrigated alfalfa land near Lamar, Colo.; easy terms. **E. C. Keyes, Owner, Hutchinson, Kan.**

BUY OR TRADE WITH US—Exchange book free. Bersie Agency, El Dorado, Kan.

Have Few Relinquishments, 160 a. each, left. Some improved. Prices, \$300 to \$900. Kingery Realty Co., Kingery, Kan.

ESTABLISHED 1885—Write for free list. Park H. Thornton, Real Estate Dealer, Coldwater, Comanche Co., Kansas.

252 ACRES, \$16,500; well impd.; phone, rural route, 2 1/2 from Clinton; 28 a. timber. John D. Johnson, Clinton, Mo.

80 ACRES—Four miles from Muskogee, Okla. (30,000); house, barn, land good. A. H. Harshaw, Junction City, Kan.

1,000—FARMS—1,000

Everywhere for Exchange. Get our fair plan of making trades all over the United States. **Graham Bros., Eldorado, Kan.**

100—FARMS—100

Improved and unimproved, at bargains. Desirably located.

THOS. DARCEY,
Real Estate and Insurance, Offerle, Kan.

STAFFORD COUNTY, KANSAS. One of the best farming sections in the state; write me for descriptions and full particulars about some of the fine farms I have for sale in this section; good crops all the time.

A. L. McMillan, Stafford, Kansas.

FOR SALE—315 acres in Allen Co., Kan., in gas belt, gas well on place, 76 acres river bottom, all fertile and all cultivated except 20 acres. \$6500 cash, balance easy terms. Write owner, Sherman Culbertson, Wichita, Kan.

FOR SALE. 175 acres adjoining New Burlington, Okla., in the Driftwood Creek valley. 100 a. in wheat, 15 in alfalfa; 8-room house; one barn 50x38, one 32x32, and other outbuildings; telephone and R. F. D. at door. Price \$10,000 if taken soon. Can give time on part. **Samuel Dreyer, Burlington, Okla.**

WANT A LOCATION?

I can sell or exchange your farm for you for another farm, city property or business of any kind. If you wish to change location give me a full description of what you have to offer, what you want and where you want it. Owners only. **CARL M. COOK, Limon, Colo.**

You Can't Lose Money

If you invest in **EASTERN COLORADO LANDS** at the present prices. If you want a farm, stock ranch or a homestead I can furnish the goods.

F. E. EWING,
Hugo, Colo.

THE BEST TOWN TO LIVE IN.

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

SECRETARY OF THE COMMERCIAL CLUB,
Topeka, Kansas.

ESTATE FOR SALE.

Buy direct and save commissions. 460 acres of fine valley land; 3 miles from county seat, best town in the gas belt. Gas belongs to land; revenue of \$250 to \$300 per year. Well improved; nice house, large barn; 160 acres now under cultivation, balance fine blue steam meadow and pasture. Want to sell by March 1. Quick cash price, \$45 per acre. Lock Box No. 926, Fredonia, Kan.

I HAVE FOR SALE, until the first of March, a nice quarter of land, all in cultivation, no improvements except fences, located in Jackson Co., Kan., 2 1/2 miles from one town, 3 1/2 from another and 6 miles from another, all railroad towns and good markets; public roads on two sides of this farm. Price, \$55 per acre. \$2,500 cash; balance terms at 6 per cent. This quarter contains 178 acres, and lays nice. **C. W. HINNEN, Box 143, Holton, Kan.**

NEAR KANSAS CITY—460 acres, only 30 miles south of Kansas City, 200 acres in cultivation, 100 acres of good timber, balance in pasture and mow land, 8-room, 2-story house, with basement under entire house, large barn and other farm buildings, two never-failing springs, well and fine cistern at house. Price, \$65 an acre, if taken before March 1. This is a money maker. For particulars, inquire of owner. **Wm. Luckeroth, Seneca, Kan.**

ACT QUICKLY FOR THIS.

Farm of 240 a., 7 mi. from city, all fenced and cross-fenced, 90 a. in cult., 50 a. hog-tight, bal. native grass meadow and pasture. Fine 2-story house, good barn, feed lots, cribs, etc.; large bearing orchard; plenty of good water; half mi. to school, good road to town. Easy terms. \$30 per a. Fine bargain. Write quick.

W. A. NELSON,
Fall River, Kan.

FARMS AND RANCHES for sale or exchange. Wheat, corn, alfalfa and pasture lands from \$3 to \$150 per acre. Small tracts close to Wichita. The best time to buy Wichita property. \$2,000,000 union depot and elevated tracks this year. Tell us what you want to buy or exchange.

P. T. DUNN,
Over 318 E. Douglas, Wichita, Kan.

DO YOU WANT THE FINEST STOCK RANCH IN THE STATE OF MISSOURI?

The **BEST BARGAIN** in the state for the price—price means **QUICK** sale and **FIRST** money. 8,000 acres in one solid body—5 miles long and 3 1/2 miles wide; all under fence; eight or nine buildings; stock scales; 300 acres bottom land in alfalfa, corn, timothy and clover; 25 springs—stream of water runs 1 1/2 miles through this ranch. Six thousand acres can be cultivated, the remainder will make good pasture land.

This ranch is located in Christian County, Mo., three-fourths of a mile from a good railroad town and 34 miles from the city of Springfield, a city of 45,000 people. Lead has been found on this ranch, and it is almost surrounded by lead and jack mines. There is also 40 acres fire clay on this ranch, and almost enough cord wood and mining props to pay for it at the price. Over \$30,000 worth of stock was sold from this ranch last year.

Strawberry land adjoining this ranch is selling for \$75 per acre, and the electric railroad survey from the Big White River Dam runs through this ranch.

I own this ranch and consider it worth \$35 per acre, but I am offering it for \$15 per acre—good excuse for selling, which I can explain.

It will take **QUICK** work at the price. Write or wire me for further information. Address the owner,

A. J. JOHNSTON,
Merchants' National Bank Building, Springfield, Mo.

FOR QUICK SALE.

225 acres choice river bottom land, well improved, 3 miles county seat town of 5,000 in Central Kansas; best of reasons for selling, and a snap if sold soon.

160 acres choice upland, 80 a. alfalfa, about \$7,500 new improvements of the best quality; party wants to retire; is a money maker.

Have stock ranches to exchange for smaller farms. Also, some good small farms to exchange for larger ones. Also, a few stocks of goods for land.

We handle everything strictly at owner's price. Our motto: Square deal to all.

J. M. DEVER & CO., Over First National Bank, Clay Center, Kan.

A FINE FARM AND STOCK RANCH.

Cannot be beat for cattle and hogs; 2,000 acres, 800 cult., half bottom land, 170 in alfalfa, 100 fine prairie hay land, 300 in wheat, all fenced, 200 acres hog-tight, pasture is some rolling, has fine running water in every pasture, crib room for 16,000 bushels ear corn and 12,000 bushels wheat, 3 sets good improvements, lots of shade trees. This ranch will carry 500 cattle. Located 4 miles from one of the best towns in Kansas. Price, \$55 per acre. We have other farms for sale. Call on

JOHN P. MOORE, Kingman, Kan.

80 A. IN OSAGE CO., KANSAS—5 1/2 miles from R. R. town, 1/4 mile to school, 50 a. under cultivation, 75 a. can be cultivated, and all the best of soil, 10 a. in pasture, 12 a. in hay, 3 a. in alfalfa, 2 a. in orchard, 6 r. house, cistern, and extra good well, barn 16x40, with double corn cribs and granary, chicken house and other outbuildings. Price, \$3,600; good terms. **R. H. BURNS (Successor to Strauss Agency), 718 Kansas Avenue, Topeka, Kan.**

Bargains in improved farms, cutover lands and timber. Winston McMahon, Conroe, Tex.

80 ACRES—Four miles from Muskogee, Okla. (30,000); house, barn, land good. A. H. Harshaw, Junction City, Kan.

TWO GOOD ALFALFA EIGHTIES Close to Independence; \$40 per a.; smooth, no waste. **Foster Bros., Independence, Kan.**

40 ACRES, 4 mi. from Kosoma, Okla., clear, all plow land, to exchange for restaurant stock, clear, well located. **J. A. Kasparek, Belleville, Kan.**

240, Well Improved Farm, only 6 miles from good town in Wabasha Co., Kan., to trade for western land or Topeka property. **O. M. Elliott, 435 Kansas Ave., Topeka.**

FOR SALE—Best stock of hardware in Salina; building faces two streets. Established for 30 years. Will invoice \$10,000. Want a good 80 acres. Address, **Cave Realty Co., Salina, Kan.**

WRITE TO ME TODAY about good, low-priced Ness County farms. The literature I will send you will interest you if you are looking for a home or an investment, otherwise it won't. Your request on a postal card brings it. **C. H. Braasfield, Ness City, Kan.** "22 years in Ness County."

WE MUST SELL THESE FARMS.

Well improved 80, near town, 50 acres in cultivation, 10 acres of alfalfa, \$45 per acre. 160 acres, improved, all smooth land, \$37.50 per acre; terms on both. Write for list of other splendid bargains. We also make exchanges. **Severns & Watts, Williamsburg, Kan.**

BUTLER, HARVEY AND SEDGWICK BARGAINS.

Genuine Snap, 160 a., near good town, 1 mi. to school, all tillable, 80 a. in cult., 15 a. meadow; bal. pasture, all fenced, family orchard, nice grove, good 7 r. house, all necessary bldgs. Price only \$40 per a.; easy terms. Write for new list and Kansas map. **Eberhard & Mellor, Whitewater, Kan.**

BARGAIN for 30 days, 1 sec., 3 1/2 miles Plainville; fenced and cross-fenced; part hog tight. Well improved; good schools, 100 acres alfalfa; 300 wheat. 100 acres for spring crop, bal. pasture. \$55 per acre. Good terms, 6 per cent. **S. A. Young, Plainville, Kan.**

LOOK HERE!

We are going to retail at once one of the finest tracts of land in Eastern Montana. If you are interested to look into a bargain, in one of the richest districts in the middle West, here is the one.

We handle our own land. You will be surprised to learn what land in our district will produce.

Write at once for further information. **STONDALE TOFTOY COMPANY,** 216-218 Endicott Building, St. Paul, Minn.

NEW MEXICO LANDS

RANCH FOR SALE—4,300 acres patented in New Mexico adjoining Colorado line, controlling 20 miles running water, modern stone residence with hot and cold water, bath, stone ware houses, barns and corrals, mostly fenced. Price only \$10 an acre. **Goke-Blackwell & Lawrence, Inc., Clayton, N. M.**

1280 ACRES BOTTOM LAND, partly in alfalfa and orchard, nearly all under fence, 200 acres under cultivation now, balance finest grazing land in the country. Elegant 6-room stone house, hot and cold water, bath, room, stationary wash stand, also with hot and cold water, toilet also in bath room, large barns, large hen and turkey house, stone milk house, running water, waterworks all over the improved grounds. Fourteen-foot Sampson windmill, pumps 4-inch stream to two tanks, capacity of tanks are 100 and 33 barrels, respectively. Ideal home for a family; healthiest spot in the world for anyone to regain their health; only one-quarter mile to Clayton, N. M. Price, to close it out quickly, \$12.50 an acre. For further particulars address **Chas. H. Lawrence, Clayton, N. M.**

LAND of the beef steer and his sister, corn, hogs wheat and alfalfa. List free. **F. C. Brackney, Burlingame, Osage Co., Kan.**

UNIMPROVED smooth wheat land, 320 a. in Ford Co., 6 miles from R. R. station. Price, \$4,500. Will carry \$2,400 for three years. **W. T. Hale & Son, Dodge City, Kan.**

I HAVE SOME OF THE BEST BARGAINS in Eastern Kansas that can be found for sale. Tracts range from 5 to 320 acres. Write me at once. **C. L. Saylor, Topeka, Kan.**

A RARE BARGAIN.

160 a., 2 mi. of town, Franklin County, Kan., good 5 room house, 3 small barns, other outbuildings, 110 a. in cultivation, 40 a. walnut and oak timber, set in blue grass. There are 30 acres of this tame grass, 10 a. in feed lots, etc., 100 a. in fine bottom alfalfa land, rich soil, has family orchard, well fenced, main route, phone. One of the best farms in Eastern Kansas. Owner retired and can make easy terms. Price, \$12,000. Address, **W. L. Morris, Owner's Cash and Exchange Agency, Garnett, Kan.**

GOOD FARM, WELL IMPROVED AND WELL LOCATED.

160 acres of all good alfalfa and corn land, 100 acres in a high state of cultivation, 10 acres fine catalpa trees, good orchard, fine shade, balance pasture, all fenced and cross-fenced, some alfalfa fenced hog-tight, large new barn, granary and corn crib, implement barn, 5-room cottage, two good wells, finest of unlimited water at a depth of 20 feet, windmill, all buildings nearly new, located 2 miles from a good railroad town, with electric lights and waterworks, good high school and 28 miles from Wichita. Price, \$9,500; easy terms to right party who will take good care of place.

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

FIELD NOTES.

The Beginning of Adams Steel Gates. Some years ago a farm boy of Kansas had a runaway. He had driven up to a wooden gate in a fence line and got out to open the gate. He was driving a spirited team. He knew his horses would run, and did his best to get to the gate and open it and save a runaway. He was somewhat in a hurry, and his team seemed to know it. Hardly had his hands touched the gate when away, with a sharp turn to the right, went his team. He had, as a result, a crippled horse and a badly damaged wagon. It cost him some \$30 to repair the damage and wait for his horse to get well. That set the boy to thinking hard. Why not, he thought, put in gates that could be opened from a wagon or buggy seat? He asked his implement dealer about it. The implement dealer sold him such an automatic gate. At least that was what the gate was called. But when it was put to use it didn't always work. So this farm boy turned to and made a new kind of automatic gate. He figured out the plan for himself and had the blacksmith make it for him. His own gate filled the bill exactly. It was simple, positive, easy working and durable. Moreover, it latched itself so securely that no animal could open it. It was so good that the neighbors had him build others for them. That was the start of the Adams Gate Company, of North Topeka, Kan. Since then this company has made and shipped out thousands of gates to every part of the United States, to Canada, Cuba and Hawaii. The United States government reclamation service heard of the Adams gate and bought a couple for trial. This trial order has been followed from time to time with further orders. The Adams gates were found of superior merit. So the business grows and grows each year, larger and larger. Being a farmer himself, Mr. Adams has made it possible for farmers to buy his gates at factory prices. All kinds and styles. And all under a money-back guarantee, subject to a three months' trial period. Farmers everywhere ought to have Adams' catalog and prices. It is sent free for only a postal card request to the Adams Gate Co., North Topeka, Kan.

(Continued on page 38.)

HORSES AND MULES

Mammoth Jacks and Percheron Stallions and Mares

100 head of Jacks, Percheron and Standard Bred Stallions and Mares for sale. Jacks from colts to 6 years old; Stallions and Mares from colts to 6 years old. Write for prices and description, and visit our farms before you buy. Farm and sales barn on 21st street, 1/2 miles east of Union Stock Yards.

J. C. Kerr & Company
Wichita, Kan.



JACKS AND JENNETS

20 large Jacks from 2 to 7 years old.
25 head extra good Jennets priced right.
Come and see me.
PHIL WALKER,
Moline, Elk Co., Kansas



30 Head of Percherons, Belgians, Road Horses and Jacks.

Winners of first and second prizes at Kansas State Fair, 1911. Sale barn right in town. My prices are right. Write or come and see me.
C. F. COOPER,
Partridge, Kan.



IMPORTED AND HOME-BRED PERCHERONS, BIG JACKS AND JENNETS.

Priced to sell. Come and see us. Farm 4 miles from Raymond or Chase. Write
J. P. & M. H. MALONE,
Chase, Rice Co., Kan.



Al. E. Smith Stock Farm

Black mammoth Jacks and Jennets, Percheron Horses.
You will find what you want in large boned, registered, 15 to 16 hands standard. Special prices on fall sales. Both phones.
AL. E. SMITH,
Lawrence, Kan.

FOR SALE

The pure in-bred Morgan stallion Joseph Huse No. 5594 A. M. R. Also state certificate under the state stallion laws of Iowa, and will be sold under a state guarantee. Also others as good, single or double.
J. ED. BAILEY, Iowa Falls, Iowa.

FOR SALE

Registered Clydesdale horses and mares, some of them closely related to the famous "Baron of Buchlyvie" that sold in Scotland recently for \$47,500. For further information apply to
JOHN SPARROWHAWK, Wakefield, Kan.

BIG HIGH CLASS JACKS.

W. T. Trotter, Mt. Airy, Iowa—Breeder of big, high class Jacks. If you want a big, well-broke, high-class Jack, write me. I have 10 head of extra good ones for sale. All sired by my famous herd Jack, Keno. All are black with white points. They are an extra fine lot.

W. T. TROTTER,
Mt. Airy, Iowa.

PERCHERON HORSES.

M. I. Ayres, Shenandoah, Iowa, importer and breeder of high-class Percheron horses. Our offering at this time includes 20 head of outstanding good young stallions—a string of youngsters that will interest breeders who want the best. Come and inspect our offering if you want a high-class stallion. We have them.

M. I. AYRES,
Shenandoah, Iowa.

JACKS and JENNETS

Six large Jacks, from 2 to 5 years old, 3 extra good Jack colts, 14 head of extra good Jennets, 1 Clyde stallion, 1 German Coach stallion, 1 registered saddle stallion. For quick sale, this stock will be priced worth the money. Will sell the lot or singly. Will consider a trade. Write us.
YATES BROS.,
Faucett, Mo.

ROYAL BELGIANS

125—Head—125

Write for catalog.

H. Lefebure, Fairfax, Iowa.

REGISTERED JACKS—Also choice 3 months registered Percheron stallion.

BRUCE SAUNDERS, Holton, Kansas.

IMPORTED DRAFT STALLIONS, \$1,000 each; home-bred, \$300 to \$600. HART BROS., Osceola, Iowa.

PERCHERON HORSES, HOLSTEIN-FRIESIAN CATTLE.

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

Best Imported Horses One thousand each. Home-bred registered draft stallions—\$250 to \$650 at my stable doors. **A. LATIMER WILSON,** Creston, Ia.

PERCHERONS, SHIRES, BELGIANS.
Prospective buyers should see our 60 head of big, heavy-boned, draft stallions and mares. Two importations this fall. We have a fine lot of American-bred Percherons that will suit, both in quality and price. All stock registered and guaranteed fully. Come to the barns or write.
SKOOG, REED & DECOW,
Holdrege, Neb.

RIVERSIDE Stock Farm

Percherons and Jacks for sale. We have a fine lot of registered Percheron colts coming two and three years old. A few large black Jacks and three registered standard-bred stallions, four to six years old. Pedigrees and breeding guaranteed.
O. L. THISLER & SONS, Chapman, Kan.

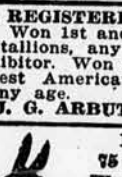
Home-bred Draft Stallions \$250 to \$600
Imported stallions—your choice, \$1,000. **F. L. Stream,** Creston, Iowa.



FAIRVIEW STOCK FARM.
Twenty-five Mammoth Jacks, all ages; Pharaoh 2491, grand champion, Tennessee at head. Largest herd in west.
H. T. HINEMAN,
Dighton, Lane County, Kan.



Imported and home-bred black Percheron stallions, 4 and 5-year-old ton horses. Seven big black Mammoth Jacks from 1 to 7 years old. Ten black Jennets, all ages. Come and see us. Farm 4 miles from Raymond or Chase. **J. P. & M. H. MALONE,** Chase, Rice Co., Kan.



4 REGISTERED PERCHERON STALLIONS.
Won 1st and 2nd at Topeka for Percheron Stallions, any age, bred and owned by exhibitor. Won same at American Royal. Also best American-bred Percheron Stallion at any age.
J. G. ARBUTHNOT, Cuba, Kansas.



HOME OF THE GIANTS.
75 Head of Jacks and Jennets.
Won half the premiums, Missouri State Fair, 1911. The big, thick, big-boned kind.
BRADLEY BROS., Warrensburg, Mo.
Mo. Pac. Ry., 65 mi. east of Kansas City.

Missouri and Kentucky Jacks

A number of extra good Missouri and Kentucky bred Jacks, from 3 to 5 years old, from 15 to 15.3 high. All are black with white points. Some show Jacks in lot. Will sell worth the money. Description guaranteed.
J. E. PARK, Cameron, Missouri.

STALLION FOR SALE.

Registered Percheron stallion, 20 months old, weight 1530, heavy bone with size, nice growth and quality. Credit in any company. Reasonable price.
A. C. WILLIAMS,
Valley Falls, Kan.

ANGUS CATTLE

BIG SPRING ANGUS CATTLE.
Jasper Aldridge & Son, Pattonburg, Mo., Proprietors
Breeder of pure bred Angus cattle and Durro Jersey hogs.
Breeding Stock for Sale.

ALLEDALE FARM BULLS.

Am offering a choice lot of young Angus bulls, sired by Even Eric 111592, ranging in age from 8 to 10 months, weighing from 600 to 800 pounds; one good 20-month-old bull. **W. A. HOLT,** Savannah, Mo.

GALLOWAY CATTLE

FORT LARNED HERD.

REGISTERED GALLOWAYS
for sale. Fifteen choice registered bulls 15 to 20 months old.
E. E. FRIZELL, Larned, Kansas.

Capital View Herd of Registered Galloways.

A choice lot of young bulls for sale in numbers to suit. Write or call for further information. **G. E. CLARK,** 2301 Van Buren St., Topeka, Kan.

POLLED DURHAM CATTLE

Roan Hero the International Champion and BELVEDERE X2712-195058

Son of the \$1,500 Grand Victor X1635 150365 heads my herd of Double Standard Polled Durhams. A few extra good, blocky, thick-fleshed young bulls for sale. Inspection invited. Farm adjoins town.
D. C. VAN NICE, Richland, Kansas.

HEREFORD CATTLE

MODERN HEREFORDS

HERD BULLS.

BEAU BRUMMEL 10th 167719.

BEAU BEAUTY 192235.

CALDO 2d 260444.

Hazford Place Eldorado, Kan.

ROBT. H. HAZLETT.

100—Hereford Bulls—100

Coming yearlings and twos. A choice lot of cows and heifers. One to a car load. Bred to one of the best bulls in Kansas.
SAMUEL DRYBREAD, Elk City, Kansas.

50—PERCHERON STALLIONS AND MARES—50

Bishop Brothers have 25 big boned stallions that weight 1,700 to 2,100 pounds that they can and will sell for less money than any firm in the business, quality considered. Write us what you want.
BISHOP BROS., TOWANDA, KAN.

SCOTCH SHORTHORN BULLS

Twenty head of high-class Scotch and Scotch topped bulls for sale; yearlings and 2-year-olds; all bred right and good individuals; also herd bull Victoria Prince Second 238026—a herd bull with a record as a breeder; all will be sold; worth the money and descriptions of stock guaranteed.
GEO. A. ROBINSON, Prescott Ia.

DUAL - PURPOSE - SHORTHORN - CATTLE

Evergreen Home Farms, Lathrop, Mo., J. H. Walker, Prop.—Breeder of dual purpose Shorthorn cattle, Oxford Down sheep, Berkshire hogs and Burbon Red turkeys. Breeding stock for sale at all times. Prompt attention to mail orders. Write us for milk and butter records of our Shorthorn herd.
J. H. WALKER, Lathrop, Mo.

GANZDALE HERD PURE-BRED HOLSTEIN

GANZDALE HERD PURE-BRED HOLSTEIN COWS AND HEIFERS FOR SALE.
To move them quickly we will, quality considered, price them right. We must reduce our herd. We also have a few extra choice quality bull calves for sale, sired by that premier sire, Fletje Count. Several of his sons from large producing dams at prices very cheap. **CASPAR A. GANTZ,** King City, Mo.

ABERDEEN-ANGUS CATTLE.

C. D. and E. F. Caldwell, Burlington Junction, Mo., breeders of high class Angus cattle. Young bulls for sale ranging in age from 8 to 18 months. A number of them are herd headers. If you want a high-class individual that is bred right, we have them. Write us for description of what we have.
C. D. and E. F. CALDWELL, BURLINGTON JUNCTION, MO.

HOLSTEIN CATTLE

33 1/3 PER CENT DISCOUNT ON \$50—BULLS—\$125.
Overstocked, Short of Feed, Must Sell.

Thirty head of Holstein bulls for sale, 1 month to 24 months old; A. R. O. breeding; 100 head in herd; pedigrees to be proud of; every one a herd header. We have never sold as good animals as this offering for less than \$75 to \$200. Buy your bull now when you can get a good one cheap. Barns on Rock Island, 30 miles east of St. Joseph, inside city limits, one-half mile from station. A few females for sale.
S. W. COOKE & SON, Maysville, Mo.

HOLSTEIN COWS AND HEIFERS.

A choice lot of cows, just freshened, all registered and priced reasonable. Also, a few young bulls, sired by Prince Ermsby De Kol, now at the head of the Nebraska College herd. **J. P. MAST,** Scranton, Kan.

M. E. Moore & Co., Cameron, Mo.

Are offering some extra fine bull calves, largely white. Sire, "Sir Kornidye Imperial" 53683. 100 per cent same breeding as "Pontiac Clothilde De Kol 2d." Champion butter cow of the world; 1,271.6 lbs. butter 365 days, 37.21 lbs. 7 days.

BULL CALVES always on hand, and worth the price.

H. B. COWLES, Topeka, Kansas.

Purebred Registered

HOLSTEIN CATTLE
The Greatest Dairy Breed
Send for FREE Illustrated Booklets.
Holstein-Friesian Assn., Box 114, Brattleboro, Vt.

SUNFLOWER HERD HOLSTEIN-FRIESIANS.

Choice stock, both sexes, always on hand. The best sire in the middle west heads this herd. Visitors and inspection solicited. **F. J. SEARLE,** Oskaloosa, Kan.

JERSEY CATTLE

I AM OFFERING a few young bulls, some of Oxford's Masterpiece, a son of Oxford Lad; Oxford's Brigadier, a son of Gumboge Knight; Merry Maiden's Golden Lad, a son of Merry Maiden's third son; and Eurybia's Exile. I have but a few of these calves that are ready for service. Will sell them reasonably while they last. Write for prices and particulars. **W. N. Banks,** Independence, Kan.

LINSOTT JERSEYS

Only Register of Merit Herd in Kansas. A few bulls of serviceable age, sired by a Highly Commended first prize winner of Island of Jersey, out of tested cows.
R. J. LINSOTT, Holton, Kan.

GOLDEN RULE JERSEY HERD.

Headed by Omeri's Eminent 85865. Choice bull calves for sale.
JOHNSON & NORDSTROM, Clay Center, Kan.

Your Choice—1 bull, coming 2 years, by Beatrice Stockwell; 1 7 months old, by Omeri's Eminent, dam Guenon's Sallie M. test of milk 9 per cent butter fat. Heifers and cows from 6 months to 6 years, mostly Golden Lad and St. Lambert blood. **S. S. SMITH,** Clay Center, Kan.

7—CHOICE JERSEY BULLS—7

from 4 weeks to 12 months, sired by a son of the noted Sultan Jersey Lad and out of excellent dams. **HENRY E. WYATT,** Falls City, Neb.

TO CLOSE OUT

our registered Shorthorn herd we offer 45 head cows, bulls and calves. Prices and breeding on request.

THE DEMING RANCH

Oswego, Kansas

GUERNSEY CATTLE.

A FEW Guernsey bulls for sale; butterfat record 698 to 714 lbs. per year; prices reasonable. **Frederick Houghton,** Roxbury, McPherson Co., Kansas.

GUERNSEYS.
For Sale—High-grade Guernsey bull and heifer calves. "Materna" strain. **MRS. HELEN DONNELLY,** Manitowoc, Wis.

RED POLLED CATTLE

RED POLLED BULLS FOR SALE.

Three yearlings, weighing 800 to 1000, get recorded. During January \$75 each. Chance of a lifetime. Beef and milk qualities combined. Herd bull weighs a ton. Bulls ready for service. September O. I. C. boars for sale. **MILTON PENNOCK,** Route 4, Delphos, Kan.

RED POLLED CATTLE.

The champion beef and milk producer of the age; bred and for sale by the undersigned. Write for prices or come and see the red beauties.
J. B. RESER, BIGELOW, KAN.

RED POLLED CATTLE.

The only dual purpose cattle and the most profitable for the farmer. Choice bulls for sale.
U. E. HUBBLE, Stockton, Kan.

AULD BROS. RED POLL CATTLE.

Herd numbers 50, headed by Prince, a ton bull in condition; 10 choice young bulls and a few cows and heifers for sale; farm one mile from town.

AULD BROS., Frankfort, Kan.

FOSTER'S RED POLLS.

Choice bulls and heifers priced reasonable.
C. E. FOSTER, R. R. 4, Eldorado, Kan.

SHORTHORN CATTLE

NEW BUTTERGASK SHORTHORNS.

Herd headed by Snowflake's Stamp and Snowflake's Star, the latter the cup winner at the 1911 Mitchell County State-Wide Fair. Straight Scotch and Scotch-topped bulls for sale.
MEALL BROS., Props., Cawker City, Kan.

GLEN HALL SHORT HORN HERD

Headed by Choice Prince, by Prince of Tebe Lawn and out of Good Lassie by Choice Goods. 5 choice red bulls in age from 10 to 14 months. Herd header, Prospects.
JOHN O'KANE, Blue Rapids, Kan.

Ten Extra Choice Shorthorn Bulls.

Five pure Scotch and five Scotch topped. Also few cows and heifers bred or open. Twenty big-type Poland China gilts bred for spring farrow to a good son of Metal's Choice. All out of mature dams. Inspection invited.
S. B. AMCOATS, Clay Center, Kan.

GREENDALE SHORTHORNS.

A few choice bull calves for sale, sired by my noted herd bull, Double Champion, by Choice Goods, and out of Ruberta.

ED GREEN, Howard, Kansas.

SHROPSHIRE SHEEP

875 Breeding Shropshires

High grade black faced breeding ewes. All young, from yearlings up. A number of good young mares, draft bred and some good young work mules. 185 head good stock cows. Can furnish car lots of any class of stock. Maryville branch U. P. station on farm. **Alkin Rancho, F. T. Grimes,** Manager; Railway Station, Alkin, Kan.; P. O., Emmett, Kan.

SHROPSHIRE EWES.

I have a choice lot of Shropshire ewes, registered, for sale. They are from yearlings to five years old. These ewes are all bred to imported rams. Prices reasonable. Write **J. W. ELLIOTT,** Polo, Mo.

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POLAND CHINAS

DEAN'S MASTODON POLAND CHINAS.
 Fifty Mastodon Poland China bred sows sired by such boars as Mastodon Price, Columbia Wonder, Surprise Wonder 5th and Gritter's Longfellow—all in the big class. Sows bred to Mastodon Price, Columbia Wonder 5th and sons of Gritter's Longfellow. Bred to farrow early March to May. Also have a few choice boars and some choice Herefords, males and females.
CLARENCE DEAN, Weston, Mo. Phone, Dearborn, Mo. R. R. Sta., New Market, Mo.

BIG TYPE POLAND CHINAS.
 Thirty fall pigs sired by Spotted Chief, both boars and gilts, out of matured sows of the large type breeding. Will also offer for a short time only a limited number of spring gilts sired by Spotted Chief and R. B.'s Longfellow, which are bred to King Wonder, a son of old A. Wonder No. 107353 for March and April farrow. These are extra good and are priced reasonable, breeding and quality considered. Description of stock guaranteed. **W. F. HOUS, JR., HALE, MO.**

HADLEY, BIG HUTCH AND EXPANSION BLOOD.
 predominate in my herd. Herd boars: Hutch Jr. by Big Hutch and King Hadley and by Big Hadley. Among sows are Granda, litter sister to Bell Metal; Pan Princess, weight 725 lbs.; Mollie S., 750 lbs., and Jess Corwin, the dam of Expansion See, the biggest boar ever owned in the West. 90 choice pigs farrowed to date. Visitors always welcome.
C. W. JONES, Solomon, Kansas.

LONGVIEW POLANDS.
 Herd boar young Mastiff. The first and grand champion at Topeka, Kansas, State Fair, 1910. A few choice spring boars and gilts for sale, all large type. Priced reasonable and guaranteed. **D. M. GREGG, Harrisonville, Mo.**

MADISON CREEK POLAND CHINAS.
 Twenty choice spring boars of strictly big type. Low prices in order to make room for fall pigs. **J. L. GRIFFITHS, Riley, Kan.**

LAMBERT'S CORRECT TYPE POLANDS.
 Ten ribbons at Topeka State Fair. The big, smooth kind. Pigs or bred sows for sale.
JOSIAS LAMBERT, Smith Center, Kan.

M'S GIANT WONDER 58159.
 800 pounds, 11-inch bone as a yearling. For Sale—Choice tried sows bred to this great boar for March farrow.
JOHN T. CURRY, Winchester, Kan.

HOPPE'S BIG TYPE QUALITY POLANDS.
 The best of the big type breeding; fed for best results. Bred sows and gilts for sale.
W. V. HOPPE, Stella, Neb.

Thirty Bred Gilts for Sale.
 A. L. Albright, of Waterville, Kan., the breeder of the big, smooth kind of Poland Chinas, is offering that number for sale at \$25 to \$40. Write him.

DISPERSION SALE.
 I offer at private treaty my entire herd of Poland Chinas, young boars, tried sows and gilts, open or bred to Giant Monarch, the king of big type boars. Some great ones at a bargain. Write.
W. C. MILLIGAN, Clay Center, Kansas.

MOONEY CREEK POLAND CHINA HERD
 The biggest of the big. Wonder and Mastodon strains. Herd headed by Big Osborne. I have bought seed stock from the best herds in Iowa and have new breeding for Kansas. Have an extra fine boar for big or medium type breeder. Also fine gilts for sale. Write for information. Visitors welcome.
JOHN W. NOLL, Winchester, Kansas.

GREEN LAWN HERD
 The big type Poland Chinas. Herd headed by Major B. Hadley, the Grand Champion at American Royal, 1911. Also Young Hadley and Big Spot. A grand lot of fall pigs for sale, priced to sell.

A. J. ERHART & SONS
 Adrian, Mo.

L. C. WALBRIDGE,
 Russell - - - - Kansas.

Offer for your inspection choice sows, both medium and big type, backed up by six boars hard to beat. Let me fill your wants.

POLANDS.
 Fuller Brothers' prize Polands. Grand champion sow, Sedalia, 1911, and other prize winners in herd. Storm Center, sire of champion sow, and Big Tecumseh, at head of herd. We also breed Hereford cattle and Scotch Collies. **FULLER BROS., Humphreys, Mo.**

HARTER'S BIG KIND POLAND CHINAS.
 Headed by Mogul's Monarch, Prince Hadley, and other good sires. Choice breeding stock always for sale.
J. H. HARTER, Westmoreland, Kansas.

LIMESTONE FARMS
 breeds Shropshires, Big Poland Chinas, Buff Orpingtons, S. C. Brown Leghorns, Indian Runner ducks and Chinese geese. Choice cockerels for sale worth the money.
M. GOTTSWILER, Clarkdale, Mo.

VINECROFT POLAND CHINAS
 Bred for quality and size. Address,
ALVIN LONG, Lyons, Kan.

MAMMOTH HADLEY POLAND CHINAS.
 60 choice spring pigs sired by Mammoth Hadley and Grand Model, two as good sires as can be found in the west; dams of pigs carry the blood of nearly all big sires.
GEO. W. SMITH, Burchard, Neb.

WALNUT GROVE FARM
 still has a few choice spring boars for sale. Sired by First Quality 60266 and out of Expansion and C's Perfection dams.
JAMES ARKELL, Junction City, Kan.

POLAND CHINAS

THE POLANDS THAT TAKE.
 FOR SALE—At low prices, several of Toulon Prince's spring boars. Write me quick. **L. E. KLEIN, Zeandale, Kan.**

W. Z. BAKER, LARGE TYPE POLAND CHINAS
 A few choice boars, bred sows and gilts for sale, bred to King Hadley, John Ex. and John Long 2nd. Prices right.
W. Z. BAKER, Rich Hill, Mo.

HAMPSHIRE HOGS

100 HAMPSHIRE SOWS,
 spring gilts, fall gilts and mature sows. Sired by sons of champions; some of them bred to a winner of the blue at the Ohio State Fair this year, the rest bred to sons of champions. Best of breeding and best of individuals, and priced right down to bed-rock. Write us.
WOODLAWN FARM CO., Sterling, Ill.

HILLWOOD STOCK FARM
 High Class Hampshires—Herd Headed by the Celebrated boar Erlanger 1039. High class young boars for sale. Will also sell Erlanger.
J. Q. EDWARDS, Platte City, Mo.

HAMPSHIRE SWINE.
 Some fine spring boars and a fine lot of summer pigs, all registered stock.
T. S. BURDICK, Route 3, Inman, Kansas.

MULE FOOT HOGS.
 Thompson's Big, Growthy Mule Foot Hogs have won more first prize ribbons than any herd in America. Stock of all ages for sale, sired by or bred to my six big State Fair first prize winning boars. Prices low, quality high. Bred sow sale February 28. Write for catalog. **Chas. K. Thompson, Letts, Ind.**

BERKSHIRES

BERKSHIRE HOGS.
 Guaranteed choice breeding stock of very fashionable lines. Either sex. Pigs, \$15; of breeding age, \$25; very extra choice, best quality, \$35. Registered. Crated f. o. b.
R. J. LINSOTT, Holton, Kan.

DUROC JERSEYS

100 DUROC JERSEY SOWS,
 spring gilts, fall gilts and mature sows. Sired by sons of champions, bred to sons of champions. An extra choice lot. Prices from \$20 up. Write us.
WOODLAWN FARM CO., Sterling, Ill.

GOLDEN RULE DUROC HERD; Dreamland Col. the best Col. boar in the west, in service, assisted by J. C.'s Defender, by the noted Defender; 100 choice spring pigs for sale in pairs or trios not related; bed-rock prices. **LEON CARTER, Asherville, Kan.**

ELDER'S HIGHLAND DUROCS.
 Headed by G. C.'s Col. and F. E.'s Col. Sows contain the blood of Ohio Chief and Crimson Wonder. Stock always for sale.
FRANK ELDER, Green, Kan.

DUROC JERSEY SPRING BOARS
 Up-to-date breeding, plenty of quality and good colors. Priced for quick sale.
W. H. SALES, Simpson, Kan.

25—DUROC JERSEY SPRING BOARS—25
 By such sires are King to Be and G's Col. out of the greatest sows of the breed. Also two fall boars sired by Neb. Wonder, and a few spring gilts. Will not hold fall sale.
GRANT CHAPIN, Greene, Kan.

B. & C. Col. and Bells Chief
 Young boars of serviceable age. Best blood lines. Bred sows and gilts, and fall pigs, either sex.
SAMUEL DRYBREAD, Elk City, Kan.

100 DUROC JERSEY PIGS PRIVATELY.
 Richly bred boars and gilts in pairs not related at prices to move them.
O. A. TILLER, Pawnee City, Neb.

AUCTIONEERS

FOR THE BEST RESULTS
 employ Zaun. He works for the best breeders in America. Best of reference furnished.
FRANK J. ZAUN, Independence, Mo.

MONT ORR
 Live stock and farm sales auctioneer; block and ring work solicited. **Belleville, Kan.**

DUROC JERSEY SALE

At WINFIELD, KANSAS, February 28, 1912

40—BRED SOWS AND GILTS—40

From the best blood known to the breed—from the well-known sires, Chief's Col., Crimson Wonder 3rd, Bell's Chief, Prince of Cols., Top Commodore, Improver Lad, Col. Scion and Bell Scion. I will sell litters from the best sows in my herd, such as Belle Scion, Belle Vara, Scion Maid, Ruby Scion, Crimson Dutchess and Scion's Choice. I am selling a lot of my best sows and the pick from my fall and spring gilts. My catalogs are ready, and I would be pleased to mail you one. Write me at once. Kindly mention Kansas Farmer when you write.

G. C. NORMAN, Winfield, Kansas

LEE BROTHERS' PERCHERONS FOR SALE.

Imported and Home-bred Stallions and Mares, Blacks and Grays.

80—HEAD OF MARES AND STALLIONS—80

From weanlings up. The kind that we sell such men as W. S. Corsa. Every one a good one. Among them is the prize winner from France. She is the best mare in the United States today, barring none. Come or write. All we want is a chance to show them. The price is right.

LEE BROS., Blue Ribbon Stock Farm, Harveyville, Kan.

Mammoth Jacks For Sale

Twenty jacks from 14.3 to 16 hands high, all good, and including some of the best we ever had. The highest priced jack at public sale last year was from our herd, and also the famous champion Missouri Queen. Call or write, mentioning Kansas Farmer.

DEIRLING & OTTO, Queen City, Mo.

150 Shetland Ponies 150

Stallions, Geldings and Mares. All colors and ages. Thirty-four to forty-eight inches high. Call on or address,

C. H. CLARK, Colony, Kansas

40 STALLIONS AND MARES.

My barn is full of good Percheron, Belgian and Shire Stallions. Priced to sell. I mean business. Come and look them over. If you want good horses, we can deal. My prices are from \$400 to \$1,000. Come and see me before you buy. Then be your own judge. Barn right in town.

Joseph M. Nolan, Paola, Kan.

Imported—Percheron—Stallions

At the 1911 shows we won Championship on both Percheron and Shire Stallions, at the American Royal, the Inter-State and the Missouri State Fairs. All our horses are imported. We sell as low as anyone on earth, quality considered. Our guarantee and insurance are the best known.

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

Percheron Stallions and Mares

A few choice stallions and several brood mares safe in foal. Matched teams from 2 to 5 years old. Come and see me.

F. H. SCHREPEL, Ellinwood, Kan.

PERCHERON, BELGIAN, GERMAN COACH STALLIONS AND MARES.

Imported and home-bred. Will sell our 1911 champion and other prize winners. Write or come. I make good. Mention this paper.

PIONEER STOCK FARM, J. W. Waddill, Prop., BRASHEAR, MO.

REGISTERED PERCHERON STALLIONS

Young registered stallions, from weanlings to 4-year-olds, outstanding in bone, size and quality. All registered in Percheron Society of America. Write for bargains.

WILL F. HOOKER, Hamilton, Caldwell Co., Mo.

On Main line of C. B. & Q. Railway, 60 miles east of St. Joseph.

AUCTIONEERS

Missouri Auction School

(LARGEST IN THE WORLD)

Will hold an actual practice term of school in connection with our auction house at Kansas City, Mo., beginning MARCH 4, in which more actual practice will be given than in any former term. The president of the school will be present during the entire term; the class will not be so large as the regular terms, hence you would get more real practice than ever before. Are you coming? Free catalog. Address, mentioning this paper.

W. B. CARPENTER, President, 1404 Grand Avenue, Kansas City, Mo.

R. L. HARRIMAN
 LIVE STOCK AUCTIONEER
 Bunceton, Missouri

W. C. CURPHEY

Salina, Kansas
 LIVE STOCK AUCTIONEER

Write, phone or wire me for dates.

T. E. GORDAN, Waterville, Kan.

Real Estate Auctioneer. Will cry sales in any state; terms reasonable; write for plan.

LAFE BURGER, Live Stock Auctioneer, Wellington, Kansas—15 years of success in selling pure bred live stock.

C. F. BEARD

Live Stock Auctioneer, Parsons, Kan. Continually selling for the best breeders of several states. Write, wire or telephone. Home phone 2702.

COL. N. S. HOYT

MANKATO, KANSAS.

Livestock Auctioneer. Big Horse and other Stock Sales a specialty. Terms reasonable. Special service to breeders.

THOS. DARCEY

Real Estate and Live Stock Auctioneer. Eighteen Years' Experience. Offerle, Kan.

DUROC JERSEY BROOD SOW SALE EXTRAORDINARY

—UNDER COVER, AT—

Elmdale, Kansas, Saturday, February 24th, 1912

50 HEAD—15 TRIED SOWS, 25 FALL YEARLINGS AND 10 EARLY GROWTHY SPRING GILTS—50 HEAD

This offering includes a part of Mr. Blackshire's sensational show herd, and practically every sow and gilt in this sale is itself a state fair prize winner or is sired by or out of a prize winner, and they are all bred and nearly all safe in pig to boars that are state fair winners or sons of winners.

THEY HAVE THE BLOOD THAT GOES ON AND PRODUCES WINNERS.

These sows and gilts are by such sires as J. R.'s Chief and Valley B., two good sons of Valley Chief, one of the best breeding sons of Ohio Chief. J. R.'s Chief headed the sensational young herd of 1910, and was first in senior yearling class at Hutchinson, 1911. Others are by such sires as High Chief, winner of first as get of sire, Hutchinson, 1911, and Dandy Lad, a full brother to the grand champion at Hutchinson, 1911.

Top Notcher Rose (by Tip Top Notcher), grand champion sow, Hutchinson, 1909, will have daughters and granddaughters in this sale. One of her daughters was grand champion the following year.

Lincoln Model, dam of J. R.'s Chief, will be represented by one daughter and three granddaughters. Lady Wonder, a granddaughter of W. L. A.'s Choice Goods and dam of the grand champion sow, Hutchinson, 1911, will be represented by several daughters and granddaughters. King's Surprise by King of Cols. and dam of part of 1911 show herd, will furnish several daughters for this sale.

They are safe in pig to such sires as J. R.'s Chief 97767, J. R.'s Col. 14377, by Graduate Col., and out of Goldie May and Model Col., by the same sire and out of Model Maid 10th. J. R.'s Col. was the top young boar of Geo. Seckman's dispersion sale, and is a full brother to Grandmaster Col. 1st and 2nd. This excellent cross of Col. sires on Ohio Chief blood cannot help but continue to produce prize winners.

AUCTIONEERS—COLS. LAKE BURGER, WOOD AND CROUCHFIELDMAN—O. W. DEVINE.

Write today for catalog. Address,

J. R. BLACKSHERE,

ELMDALE, KANSAS

PERCHERON HORSE SALE

25 MARES AND 25 STALLIONS

At Butler, Missouri

THURSDAY, MARCH 7TH, 1912

In McMullen's Sale Pavilion.

Not the largest, but best sale of Percherons this year.

Am selling the best I have on the farm. Everything will be held until sale day—nothing priced or sold till sale.

No reserves. Am closing out my herd—everything sold regardless of price. More brilliant blood than any herd in the state. All ages, from yearlings to 5 years. Sale under cover. Catalog out February 15. Send for catalog and come to sale. Please mention *Kansas Farmer*.

J. W. Barnhart,
Butler, Missouri

Be Sure to Say When you write our Advertiser **I Saw Your Adv**
In this paper. Our advertisers like to know from which papers their orders come.



**PERCHERONS
SHIRES
BELGIANS**

**We Want
You to Come to
Lincoln and see our Stallions**

They are big, smooth, flat-boned fellows with great quality, style and conformation—with splendid color and dispositions. Our contract of guarantee is as good as a government bond. Our prices are reasonable. Big catalog and letters from hundreds of satisfied customers sent upon request.

Watson, Woods Bros. & Kelly Co., Box 34, Lincoln, Neb.

700 Shropshire Ewes

MATED TO IMPORTED RAMS.

TWO HUNDRED IMPORTED EWES and FIVE HUNDRED AMERICAN EWES. Buy now, when you get the ewe, her lambs, twins or triplets, and her fleece. Winter is about over. *Wonderfully good values at \$15 and up.*

Henley Ranch-8000 Acres

Postoffice, Greencastle, Mo. Station, Castle, Mo.

TOO LATE TO CLASSIFY

OHIO IMPROVED CHESTERS—100 choice spring and fall pigs. Can furnish pairs not related, best of breeding. Sired by Jackson Chief 2d. Ken Garrett 2d and Bode's Model. Priced right. **W. H. LYNCH, Reading, Kan., Box 36.**

IMPORTED STALLION FOR SALE. I have a 3-year-old imported Percheron for sale. If taken before March 1 will make price lower than could be bought for of importer. Guaranteed.
E. R. MORGAN, Blue Rapids, Kan.

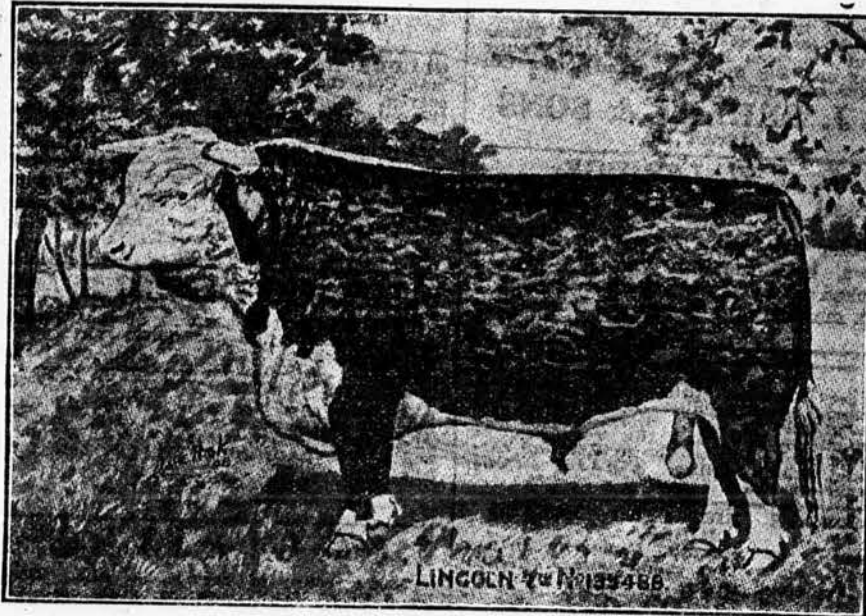
FIELD NOTES.

Bred Sows For Sale. Mr. John T. Curry, big type Poland China breeder, of Winchester, Kan., has for sale three choice tried sows and two last spring gilts, all bred for spring farrow to the big Mouvy boar, M's Giant Wonder. The sows are good breeders, having raised seven and eight pigs last spring. They are only being sold to reduce the size of herd. Mr. Curry will make a bargain price to anyone that can use the five head. Write him, and mention *Kansas Farmer*.

Hereford Dispersion February 27 and 28. The greatest Hereford event of the winter will be the big dispersion sale of the Jones Bros. at the fair grounds in Council Grove, Kan., February 27 and 28. The of-

of field, garden and farm seeds and shrubs, as well as various supply lines which a seed house can handle to good advantage. A complete index on the second page of the book makes it an easy matter to find everything in it. One of the features of the book is the great line of fine seed corn shown and explained. Then there is the great "Jumbo" bargain collection of garden seeds, \$2.25 worth for only \$1. This is the great "get acquainted" offer for 1912. A large army of customers each year for over a quarter of a century have found profit and satisfaction in buying of this company. Farmers can have the catalog free by writing the above address and mentioning this paper when writing.

Van Sant's Seed Corn. W. W. Van Sant & Sons, of Farragut, Ia., write *Kansas Farmer* that they are having heavy calls for their four best varieties of seed corn. They had a fine crop last year, and their seed, they say, is some of the finest they ever produced. Van Sant's are farmers and seed corn specialists. They raise their own corn. They sort it, test it, and ship nothing but first quality seed. Their fine new catalog shows their way of handling their seed corn business much better than it can be written for a paper. Every corn grower ought to send for it. It is educative in more ways than one. Simply address them a postal card, saying: "Send me your new corn book," and mention *Kansas Farmer*. The book will come by return mail.



fering will consist of about 225 lots, besides a large number of calves at foot to be sold along with their mothers. The Jones Bros' herd is without doubt one of the strongest herds in Kansas at this time. It was established a great many years ago, and the proper standard of excellence has always been maintained. The entire show herd is included; also, the noted herd bulls and a big lot of cows that have never before been for sale. The cow herd is young and nearly all of their entire life of usefulness is before them. The blood of nearly every noted bull of the breed will be represented, and some of the best animals that was ever offered at public auction will go through the ring. The catalog gives all information and should be in the hands of every lover of the breed. Write for it at once, mentioning *Kansas Farmer*.

Archias' Sure Seeds.

The twenty-ninth annual catalog of Archias Seed Store, Sedalia, Mo., came in the other day. It is gotten up in its usual attractive style, and lists a complete line

Armstrong's Seed Corn Beats.

The Extension Farm Report No. 11, page 17, table 7 (of the Iowa Agricultural College at Ames), shows "that Armstrong's seed corn made 4½ bushels per acre more than the crop from seed tried from 59 farmers; 7½ bushels, 16 bushels and 16 bushels more, respectively, than seed furnished by three leading corn houses, and 17 bushels per acre more than the average yield of seed corn from 12 other seed houses." W. E. McKeel, a Kansas farmer writes: "Armstrong's corn exceeds all other as to yield and maturity. I won first premium at county fair, 75 bushels per acre." Further particulars of the great strains of Armstrong seed corn are worth having. All furnished free by the growers, J. B. Armstrong & Son, proprietors of Pleasant Valley Farm, Shenandoah, Ia. Every farmer ought to read the Armstrong corn book. It shows what can be done with improved seed corn. It will prove a profitable study, one that no farmer can afford to overlook. Write for it, addressing as above, and kindly mention *Kansas Farmer*.

EXTRAORDINARY DISPERSION OF Prize Winning Percheron Mares and Stallions AT BELOIT, KANS., THURSDAY, FEB. 29th, 1912

When the Select Stud of **RALPH G. McKINNIE**, Glen Elder, Kan., will be sold without reserve, together with sixteen head of the best stock of **H. G. McMILLAN & SONS**, Rock Rapids, Iowa

who, in the last seven years, have won over SEVEN HUNDRED prizes at the important stock shows in the United States in competition with all the leading breeders and importers.

THIRTY-SIX HEAD of stallions, mares and colts, including the **CHICAGO INTERNATIONAL PRIZE WINNING MARES**, now at the period of their greatest usefulness.

IMP. GOULOTTE (71858) 48947, weighing 2160, safe IN FOAL TO THE GREAT CARNOT 66666, and **LUCY** 34974, weighing over a ton, and safe in foal to a grandson of Besigue (19602). The 2340-pound **Hardi** (74718) 60541 also included in this sale.

ALSO, an **IMPORTED YEARLING FILLY** BY THE \$10,000 **CARNOT 66666**, imported especially to be bred to the great Calypso, but consigned to this sale by **H. G. McMillan & Sons**, in fulfillment of their promise to furnish their share of an offering of strictly high-class stock. Also,

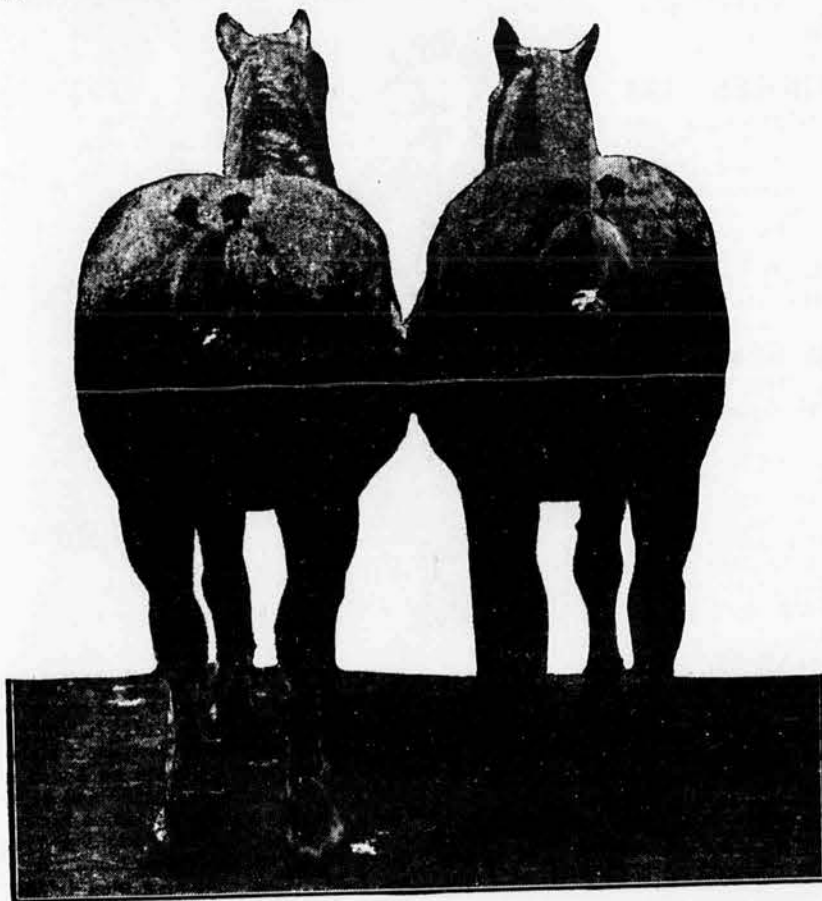
IMP. HARDI (74718) 60541, a 4-year-old of unusual scale, bone and breeding, **WEIGHING NEARLY 2400**, the kind seldom offered at public auction.

A rugged, heavy boned lot of real work mares, by such sires as Calypso, Carnot, Casino, Aride, Samson, Bibi, Brunelles and others, mostly weighing over 1900, and all old enough to work on the farm, and safe in foal. Stallions with enough weight and breeding to head pure-bred herds or for stock horses. **AN OFFERING NEVER EQUALED IN THIS STATE, AND SELDOM IN ANY STATE.**

Sale at the Mitchell County Fair grounds, Beloit, Kan., Thursday, February 29, 1912, in a heated sale pavilion, regardless of weather. Address, for catalog,

RALPH G. McKINNIE, Glen Elder, Kan.
Auctioneer—Carey M. Jones. Fieldman—Jesse R. Johnson.

Banquet and annual election of officers of the Mitchell County Breeders' Association at Beloit, Kan., the evening of February 28. Secretary Wayne Dinsmore, of the Percheron Society of America, has promised to try to attend this meeting and make an address, and there will be others of note. Notify Secretary J. M. Rodgers, Beloit, Kan., that you and your wife will attend.



INTERNATNONAL PRIZE WINNING MARE, TO BE SOLD IN THIS SALE.

WARD BROTHERS Annual Duroc Jersey Bred Sow Sale

AT FARM, NEAR REPUBLIC AND SCANDIA, KAN.,
MONDAY, FEB. 26, 1912

THIRTY HEAD, THE KIND THAT ARE IN DEMAND BY THE BEST FARMERS AND BREEDERS OF TWO STATES. Fourteen tried sows and 6 fall yearlings, including Maud Beauty by Model H. and out of a Crimson Wonder dam; Bell Pet by Pearl's Golden Rule, and Cherry Girl 2nd by Cherry Boy; others by G. C.'s Kansas Col., Prince Wonder 2nd, Wonder Chief, Paul Jumbo, Bell's Chief and others. The gilts are a very uniform bunch, mostly sired by Expansion.

THE OFFERING CONTAINS MORE ANIMALS THAT HAVE TOPPED SALES THAN WILL BE CONTAINED IN ANY KANSAS SALE OF THE SEASON.

Everything bred for March and April farrow to the following boars: Expansion, Bell's Prince Wonder, Climax 2nd by 2nd Climax, dam a noted prize winning sow. A few to Model Cherry by Model H. and out of a Cherry Boy dam. Everything has been through the cholera and are supposed to be immune. Write at once for catalog. Free transportation from Republic and Scandia, Kan.

WARD BROS.
Republic, Kansas

Auctioneers—Ray Page, N. S. Hoyt, Mont Orr.
W. E. Monasmith sells the following days at Formoso.

Fieldman—Jesse Johnson, for Kansas Farmer. Send bids to him, in my care.

MONASMITH'S Annual Duroc Jersey BRED SOW SALE AT FORMOSO, KANS. Tuesday, Feb. 27, 1912

54—HEAD—AS GOOD BLOOD AS CAN BE FOUND, WITH INDIVIDUALITY TO MATCH—54 HEAD.

24 TRIED SOWS, including Bonnie May by Bonnie K., Maud by Pearl's Golden Rule, Alice Bly by Queen Rule, he by Pearl's Golden Rule, G. C.'s Col., Fancy by G. C.'s Col., Miss Perfection by Wonder Bob by Nebraska Wonder; others by I Am A Bonnie K., Golden Ruler and King of Kantbebeat.

15 FALL YEARLINGS, all sired by Bonnie K., including 5 out of a litter of 17, dam Model Girl by Model Chief Again.

15 SPRING GILTS, by Bonnie K. and Kansas Special, carefully selected and very uniform, out of such sows as already mentioned. The offering will be bred for March and April farrow, the tried sows to Bonnie K. and Kansas Special, gilts to Bonnie K., Kansas Special, O. E.'s Expansion and W. E.'s Tientsin. Write for catalog. Ward Brothers sell day before, at Republic, Kan.

W. E. MONASMITH, Formoso, Kansas

Auctioneers—Ray Page, N. S. Hoyt, John Brennen.
Fieldman—Jesse Johnson, for Kansas Farmer. Send him bids, in my care.

FRANK IAMS' DRAFT-STALLIONS

Are "up-to-the-minute" and 10 years in advance. They are the "Drafty, big-boned type"—"Nifty big Black Boys"—the real "medal winners"—sensational "show and business horses" of note, "ripe peaches" from the "select 400." Big, classy "Peaches and Cream"—"Black Boys." The "Iams Brand" of drafty "top notchers." Iams' 1912 importation of Percheron and Belgian stallions and mares are in the "Pink of Condition" and ready for a "good selling." "Ikey, Boy," smile sweetly, and hundreds of Iams' satisfied customers "will sit up and take notice" that Iams, the "King Pin" horse importer, is still "doing business" at the "old stand." Iams is "pushing" his horses to the front. The big "Peaches and Cream" "Boys and Girls" are attractions that can't be overlooked. Iams mesmerizes buyers with "real drafters," at "bargain prices," and having the "horses as advertised." Iams' "competitors" and "hammer knockers" are "boosting Iams" by their "knocks," until now he is known as the "Millionaire Horseman," and on "Easy Street," and growing fast. Ikey, "Come on along," and sing Iams' song. He is selling these "aristocratic," fancy "Black Boys" cheaper than ever—or better horses for less money—\$1,000 and \$1,400 (few little higher). Iams has

120 PERCHERON and BELGIAN STALLIONS and MARES 120

They are "Models"—"Humdingers." They are 2 to 5 years old, weigh 1,700 to 2,500 lbs., 80 per cent blacks, 50 per cent ton horses. All "approved and stamped" by European government. Registered in popular stud books of U. S. Many "prize winners" and "gold medal horses." Big, Drafty "top notchers," with big bone, quality, style, finish and action to burn. They are "Eye-openers"—larger and better horses than seen elsewhere. Big "business propositions" that make "the wheels work fast" under a "Buyer's hat." "Georgie, dear," Iams made a "big killing" by buying his horses in Europe in October 1911. "Dry weather," "bad crops," "close money" and "Iams' cash" caused the "prize winners" and "tops to be thrown on the market for a 'good selling.' Iams 'cut the melon' and bought the 'rippers' at 'knockout prices.' Iams will give his customers the benefit of his 'good buy.' 'Ikey, boy,' 'come on down town'—get into

IAMS' "Get Rich Wagon" and Save \$1,000 on a "Top Stallion"

(and you wear the diamonds). Iams is a "big fly in the jelly" in the horse world. "He keeps the gang guessing." Iams sells "Imported horses only"—(They win 90% of prizes at big horse shows). No "American bred full bloods"—No "Auction stuff" or "Peddlers' horses"—only "choice drafters" of big size, bone, quality and finish. Iams imported horses are "approved"—"branded," "Inspected," and "Certificate stamped O. K." by governments of "France and U. S. A." Iams has the "crack stallions and mares" you "read about." Buy horses of Iams and you won't "get stung" in horse or price. "Dolly D." waltz me around once again "Ikey," land me at Iams' box office and importing barns. Full to "the roof" with "Black boys" (and all must be sold). Reduced prices. All the world knows Iams and his "Peaches and Cream" horses. 1912 promises to be a bumper year to Iams and his customers. He saved \$300,000 to stallion buyers in 1911. Watch "Iams' smoke" in 1912. Iams' 30 years of successful business makes him a safe man to do business with. Iams sells horses "on honor." A boy or a lady can buy as cheap as a man.

IAMS' 1912 HORSE CATALOGUE IS AN "EYE-OPENER." IT HAS "A LAUGH" AND A \$1,000 BARGAIN IN EVERY LINE
"A bunch of gold" THE "BOOK OF BOOKS" to stallion and mare buyers. It is full of "WIDE-AS-A-WAGON DRAFTERS"—the real "peaches and cream" stallions. It shows LARGEST IMPORTED stallions and mares in the United States, "TRUE TO LIFE," and TRUTHS, FACTS, "BUSINESS PROPOSITIONS," and 10 illustrations of "TOP-NOTCHERS" and the "TRICKS OF STALLION PEDDLERS" and "AUCTION BLOCK" SALESMEN. It is the finest, most elaborate, and original up-to-date horse book in the world. Iams, the "square deal" horseman, makes every statement in ad. or catalog good—or you get the \$500 he hangs up. Iams guarantees to sell you a better imported stallion at \$1,000 and \$1,400 (few higher) than are sold to stock companies for \$4,000. Imported mares, \$700 and \$1,000. Iams gives 60 per cent breeding guarantee; pays freight on horse and fare of one buyer. He can furnish \$1,500 insurance. IAMS buys and sells every stallion himself. Save buyers \$1,000 in middlemen's profits. He buys stallions by "trainload." He speaks the languages—(saving 20 per cent). He is not in the "Stallion Trust." Partners—to share profits. He "pays cash" for his horses—and sells "top notchers" by "hot advertising" and having "the goods." "Big Ikey," leave your "happy home and buy a 'top' stallion or pair of imported mares (of Iams) that bring colts that sell at \$500 each. "Papa," don't let those "auction men" "hand you a lemon" in one of those "so-called," "American full-bloods" of questionable breeding. Buy an imported horse of Iams, the "reliable horseman." Then we will "wear diamonds." Iams' "selling clothes" fit all buyers. Write for Iams' million-dollar horse catalog. Iams won't let you go without a Peaches and Cream stallion or mare. "He sells the tails off them." Iams' guarantees are backed by "half-million dollars." References—First National and Omaha National Banks, Omaha; Paul Banks, St. Paul, Neb. Iams buys big ad. space because it is cheaper than flannel-mouthed horse salesmen.



ST. PAUL, NEBRASKA

STAADT'S MASSIVE DUROC JERSEYS

35 HEAD OF BRED GILTS AT AUCTION,

At Ottawa, Kansas

FEBRUARY, 22nd, 1912

1 O'clock, Forest Park Heated Sale Pavilion.

The O. K. type, big, massive, easy feeders. All closely related to Crimson O. K. 100649, the greatest hog we ever owned, and we have owned a number of leading State Fair winners. All bred to the big, massive Crimson Wonder herd boar Paul Surprise 104801, for April and early May farrow.

J. F. STAADT & SON, Ottawa, Kansas

Auctioneers—Porter and Rule.

FIELD NOTES.

Meriden, Kan., March 3, 1907.
CURRIE WIND-MILL CO., Topeka, Kan.
Gentlemen—I received the Grinder all right and am well pleased with it. In grinding ear corn it runs much easier than most of the geared mills I have tried. Wishing you success, I am, truly,
E. A. COLEMAN.

Mr. C. M. North and W. C. Robinson have purchased H. T. Dean's interest in the North-Robinson-Dean Co., Grand Island, Neb., and they will carry on the business along the same lines as they have in the past. They inform us they have their barns full of good big-boned draft stallions and mares, among them 30 head of

Alg. drafty three-year-old pasture-raised stallions. Mr. North also informs us the entire offering must be sold by April 1, regardless of price. Note the change in their advertisement and mention Kansas Farmer when you write them, please.

Bred Shropshire Ewes.

James W. Elliott of Polo, Mo., is offering 30 head of pure-bred registered Shropshire ewes which are from one to five years old. They are a choice bunch and are all safe in lamb. Individually they are of good type and conformation and are in excellent condition. These ewes would make a fine foundation for any man who would like to start a pure-bred flock. They are of the best breeding in America. Write Mr. Elliott about these ewes, and mention Kansas Farmer.

NEVIUS & WEDD BRED SOW SALE

Monday, Feb. 26, 1912

At Glenwood Farm, One Mile South of
CHILES, KAN.,

Fifty head, 35 yearling and bred sows, 15 big, growthy spring gilts. Best of breeding. Sired by Designer, Major Look, Grand Metal, Kansas Wonder or Wedd's Expansion. Bred to same boars or to the young boars, Wedd's Long King or Wonder's Expansion, by Expansion Wonder.

All are immune from cholera and bred for early litters. Send for catalog

to C. S. NEVIUS, Chiles, Kansas, or to
GEORGE WEDD & SON, Spring Hill, Kansas

W. J. McBrayer's Horse and Jack Sale.

W. J. McBrayer of Hamilton, Mo., Missouri's leading horse and mule man, is advertising a closing out sale of draft and standard-bred stallions and jacks and jennets in this issue of Kansas Farmer. The offering will include some extra good draft and standard-bred stallions. Some of the best jacks in the state, and a herd of jennets that are extra good. One of the draft stallions that will go in this sale is three years old and weighs a ton, and a finer proportioned horse will be hard to find. An extra good two-year-old standard-bred stallion will be a feature of the offering. His offering will interest anyone wanting a good draft or standard-bred stallion, or a high-class jack or jennet, and this is a genuine closing out sale. Everything goes.

Sunny Ridge Percherons and Jacks.

J. P. and M. H. Malone, owners of Sunny Ridge Stock Farm at Chase, Kan., make a change in their advertisement. They offer some four and five-year-old black Percheron stallions, both imported and home-bred. They are ton horses and the prices asked make this offer worth looking into. Seven big, black mammoth jacks, from one to seven years old, and ten black jennets, all ages, are also offered. Visitors are always welcome, and the offering would seem to make it worth while to see this stock. Sunny Ridge Farm is nearly midway between Chase and Raymond, in Rice County, Kansas, both of which towns are on the line of the Santa Fe railroad. Write for particulars, and please mention Kansas Farmer.

L. M. Monsees & Sons'

34th ANNUAL SALE

65 Head of High Class Registered JACKS and JENNETS

Limestone Valley Farm is located 189 miles west of St. Louis and 99 miles east of Kansas City, main line Mo. Pac. and M. K. & T. R. R.'s, 6 miles east of Sedalia and 2 miles north of Smithton, Pettis County, Mo.

TUESDAY, MARCH 5, 1912



The get and breeding of the world's champion jacks, Limestone Mammoth 298 and Orphan Boy 696. Sale under cover with comfortable seats and fire. Special train from Sedalia to Smithton and return on day of sale. We guarantee this the best offering of the year from any firm, breeder or company. Every animal guaranteed as represented. If interested, write today for fine illustrated catalog. Free conveyance from Smithton to sale.

L. M. MONSEES & SONS
SMITHTON, MO.

McKinnie's Dispersion Shorthorn Sale

IN PAVILLION AT BELOIT, KANSAS, THURSDAY, FEBRUARY 22ND, 1912



Twenty-four head of choice individuals, Scotch and Scotch topped, comprising four bulls, including the herd bulls, Lord Barmpton by Lord Marr, Gifford's noted herd bull and Secret Success by Hampton's Successor and out of the pure Scotch cow, Queen Secret. The other bulls are about old enough for service, and are sons of Lord Barmpton.



Sixteen choice breeding cows, all bred or with calves at foot by the herd bulls mentioned; four extra choice heifers, coming yearlings, also by Lord Barmpton. The cows include two daughters of the noted bull, Red Knight, the pure Scotch cow, Queen Secret, one sired by Scottish Gloster, and two heifers by Lord Marr.

L. M. NOFFSINGER, of Osborne, Kan., consigns eight head, five bulls and three females. Four of the bulls are coming 2-year-olds and one is a yearling. Two of the cows will have calves at foot, and all three will be in calf to the pure Scotch bull, Prince Lustre, winner of second in calf class and champion at Oklahoma State Fair as a yearling.

ELMER CREITZ, of Beloit, consigns one male and two females, all Scotch topped and good individuals. The offering, as a whole, is a good one, and will be sold absolutely upon the merit of the individuals as to quality and breeding. For catalog, write, AUCTIONEER—JOHN BRENNEN. FIELDMAN—JESSE JOHNSON.

C. E. McKinnie, Beloit, Kansas

L. R. McLarnon's Sale

OF

BIG TYPE POLAND CHINAS

AT

Braddyville, Iowa, Tuesday, Feb. 27th, 1912

50—HEAD OF BRED SOWS—50

Thirteen head of big, high-class, tried sows, seven head of outstanding, good fall yearlings, thirty head of spring gilts—the outstanding good ones of our large herd—making the best draft we have ever offered at public sale. This offering will include two A Wonder gilts, ten Max Dude fall sows, a number of them tried, four sired by Big King by Pawnee Lad, a number of gilts sired by Colossal, and others by Big Mogul. Thirty head of this offering is bred to Big Orange, the sire of more high-class, big herd boars than any other boar living. A few to A Wonder Giant, and others to Colossal. This is strictly a big type offering. They are the big, stretchy, mellow, easy feeding kind, with plenty of class. Write for catalog. Bids sent to fieldman or auctioneers will be treated fairly.

L. R. McLARNON, Braddyville, Iowa
AUCTIONEER—COL. H. S. DUNCAN. FIELDMAN—W. J. CODY, for Kansas Farmer.

R. E. MAUPIN'S TWO DAYS SALE

At Pattonsburg, Mo.

Feb. 23 and 24, 1912

On February 23, the offering will consist of 100 Poland China sows, gilts and boars—80 bred sows, 10 open gilts and 10 late summer and fall boars. Sows are by Missouri's Meddler, Notcher On, Corrector 2nd, On the Dot, Impudence, Major, and other noted boars, and are bred to Notcher On, Missouri's Meddler and Golden Glory.

On February 24, the offering will be 70 head of high-class registered Shorthorn cattle, consisting of cows, heifers and young bulls, including the great herd bull, Nonpareil Avondale. This is a dispersion offering, and Short-horn breeders will have an opportunity to buy at public auction the very fine lot of cows and heifers of my herd. Write me for catalogs. Bids sent to fieldmen or auctioneers, in my care, will be fairly treated.

R. E. MAUPIN, Pattonsburg, Mo.

AUCTIONEERS—COLS. J. W. SPARKS, J. T. LEE, D. E. NANCE.
FIELDMAN—W. J. CODY, for Kansas Farmer.

Percheron and Jack Sale

AT UDALL, KANSAS,

February 29, 1912

One black, registered Stallion, 6 years old, weight a ton; 1 black, registered Stallion, 8 years old, weight, 1800; both are registered in Percheron Society of America, and sold sound. One imported Majorica Jack, 16 hands, standard; one 5-year-old black Jack; two 3-year-old Jacks, 15 and 16 hands high; one 2-year-old and one yearling; three Jennets and one weanling Jack colt. Send for breeding folder, and come to my sale. Please mention Kansas Farmer when you write.

JOHN F. FRY, Udall, Kansas.

Onward Wilkes

FARM SALE

At Jefferson City, Mo., March 21, 22 and 23, 1912
50 HEAD OF SADDLE HORSES

including show ring winners and prospects, 15 head of registered saddle bred brood mares, 15 head saddle stallions, 10 head good breeding jacks, 20 head speed horses and young ones, 10 head lady broke saddle and harness horses. I want to buy 10 head Percheron mares, registered. Ask for catalog.

JAMES HOUCHIN, Jefferson City, Mo.

R. D. MARTIN & SONS'

DUROC SALE

At Eureka, Kansas, Feb. 27, 1912

FORTY BRED SOWS AND GILTS—Sired by Dandy Duke, Model Duroc, Greenwood Chief, R. D.'s Improver, Tatarax Model. Twenty-six of these sows are bred to the grand champion boar at Kansas State Fair, 1911. This boar was at head of first prize herd and at head of first prize young herd. I am selling some good sows and gilts. If you want some new blood, come and buy a sow bred to a champion boar. At the Topeka fair last year we won first and second on aged sows, also the grand champion sow. My catalog is ready to mail out, and it gives a complete list of our show record last year. Send for one, read it and come to the sale.

R. D. MARTIN & SONS, Eureka, Kansas
AUCTIONEERS—COL. LOU SMUTHERS, COL. C. E. MILLS.

LIMESTONE RIDGE FARM, CAMERON, MO.—Farm 5½ miles south of Cameron, 35 miles east of St. Joseph and 54 miles northeast of Kansas City, on the Burlington and Rock Island railways. Missouri Jacks, Percheron and Saddle Stallions, for sale at reasonable prices. Extra good Jacks for Jennets. All stock old enough for service, has been tried and will be guaranteed breeders. No trouble to show stock. P. O. address, ISAAC C. LOHMAN, R. F. D. No. 3, Turney, Clinton County, Mo.

W. J. McBRAYER'S CLOSING OUT SALE
of Draft and Standard bred Stallions and Jacks and Jennets, at

HAMILTON, MO., SATURDAY, MARCH 2, 1912.

Some extra good Draft and Standard bred Stallions. Five Jacks ready for service; some outstanding good ones. The Jennets are an extra good lot, and all are in foal.

W. J. McBRAYER,
Hamilton - - - - - Missouri.

DR. W. H. RICHARDS

IMPORTER OF DRAFT HORSES

Importation arrived September 10, 1911. I have selected them personally, and have the pick of Belgium and France's 2- and 3-year-olds. All were selected for good breeding, soundness, bone and individuality. All good colors and will make ton horses. Every horse absolutely guaranteed. Anyone looking for a first-class STALLION at very reasonable price should come and see them before buying. Barns four blocks from Santa Fe Depot. EMPORIA, KANSAS



AULDRIDGE & SON'S

Duroc Sow Sale

AT PATTONSBURG, MO.,
THURSDAY, FEBRUARY 22, 1912.

A high-class offering of Duroc Jersey sows, a number of them bred to our great boar, Buddy K., a grandson of Buddy K. 4th; others to Duchess Model, and several to a son of B. & C.'s Col. Write us for catalog. JASPER AULDRIDGE & SON, Pattonsburg, Missouri.

STALLIONS

Yes, "Stallion Price-Cutter"—that's what they call me, and I am proud of the title. I want to place one or more of my stallions or mares in every township, and I have 60 head now on hand and another importation to arrive this month, and I am going to slice prices on a grand scale. Will give you the best of terms and a cash guarantee. All my horses are registered in books approved by the government. I want you to look at other horses before coming, and then it is up to me to make good to you that I am selling them worth the money. Remember, I pay your expenses if you don't say my prices are right, considering quality. Write or come and see me and I will assure you a bargain.

L. R. WILEY, EMPORIA, KANSAS

Lamer's Percherons

SALINA, KANSAS

Senty-five (75) Head of Imported and Home-grown Percheron STALLIONS, MARES and COLTS, all ages, for sale. WRITE or COME AND SEE ME before you buy.

C. W. LAMER,
Salina, :: :: :: :: Kansas

100 Head of Imported and Home-bred Stallions

and mares of the different breeds, 50 head of coming 3-year-olds, big boned, American-bred, pasture-raised stallions; the kind that give satisfaction, the kind that breed.

Reference: Any bank in Grand Island, Cairo or Bridgeport, Neb. History of the horse and large calendar sent free to horsemen. NORTH-ROBINSON DEAN CO., Grand Island, Neb.

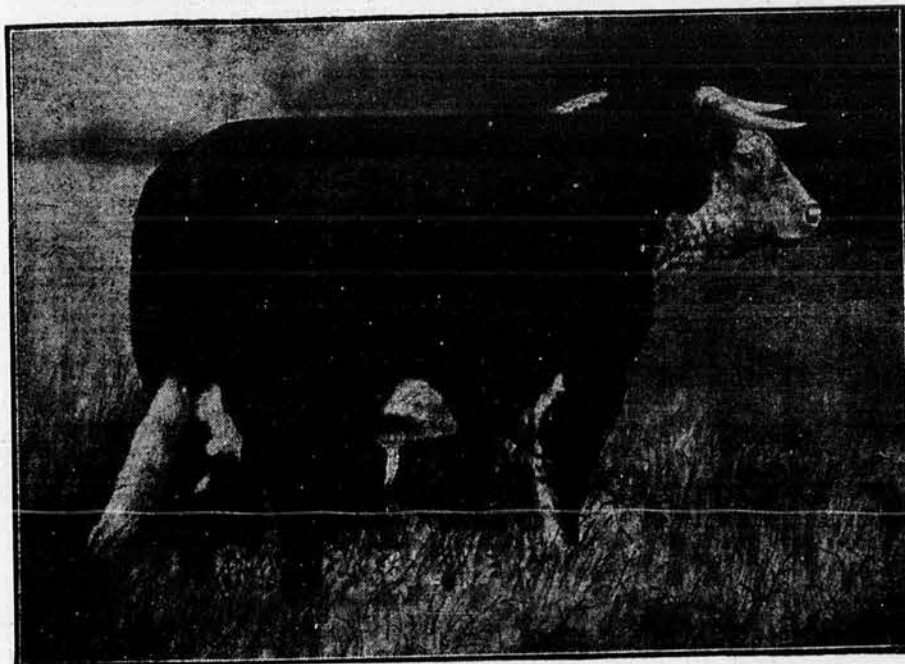


JONES BROTHERS

Big Dispersion Hereford Cattle Sale

At Fair Grounds, Council Grove, Kansas, Feb. 27 and 28

215 HEAD—THE GREATEST OPPORTUNITY OF THE SEASON—215 HEAD



SIMPSON.

The offering will be presented in ideal breeding condition and all females of breeding age will either have calves at foot or be in calf to some one of our great bulls. The herd has been culled closely, and all animals not worthy have been put into the feed lot. Write for free photos suitable for framing. Write at once for catalog.

Farm For Sale Privately

AUCTIONEERS—EDMONSON, BELLOWS, ZAUN, SPARKS, BRADY.

36 BULLS—Including our herd bulls, Simpson, Beau Monarch 54th, Dandy Andrew 6th, 7th and 9th, Beau Monarch 90th and 91st. Herd bulls, farm and ranch bulls of serviceable age and in the best possible condition—the best lot of bulls ever on our farm.

100 BREEDING COWS—25 sired by the great Lincoln 2d by Cherry Boy, and others by Lincoln 7th, Simpson, Beau Brummel, Lamplighter, Jr., Benj. Wilton, Dandy Andrew, Beau Donald 47th, Hesiod 85th, Imp Salisbury, Beefy Boy (by Cherry Boy), Onward 19th, Columbus 17th, Drusus, Sunset, Shadeland Dean and Monnington. Sixty head have calves at foot.

30 TWO-YEAR-OLD HEIFERS—Mostly by Lincoln 7th, Monnington and Simpson, safe in calf to our herd bulls. A grand lot of excellent young breeding cows, in good flesh and condition, good size, well marked, good color and good heads and horns. Splendid material for herd foundation. Look these heifers over.

49 YEARLING HEIFERS—All our own breeding. The attraction of the entire offering. A superb lot of prospective brood cows of the most popular type. Practically our entire heifer crop of their ages. Many show prospects in this lot.

OUR ENTIRE SHOW HERD—Beau Monarch 54th, the best 2-year-old bull to be sold this season, sired by Simpson out of Imp. Prudence. Daisy, junior yearling heifer, first at local fairs in 1911. Beau Monarch 90th, senior bull calf, second at Kansas State Fair in 1911. Sally, senior heifer calf, junior champion at 1911 Kansas State Fair, and others—prize winners at state and local fairs.

We will also sell at private treaty our 1,400-acre ranch, one of the best stock and combination grain farms in Kansas.

JONES BROS., Council Grove, Kan.

Pfander & Sons' Sale of Giant Polands

AT

CLARINDA, IOWA

Wed., Feb. 28, 1912

50 HEAD 50

The great Long King, Long King's Equal and A Wonder offering. A blending of blood of the three greatest boars of the breed.

Ever since the big type became popular these hogs have been known and recognized as leaders, and the greatest demand has been for a mingling of their blood. At last we have succeeded in getting this blood mingled and are now offering it to you.

Three tried brood sows, daughters of Long King, bred to A Wonder; four fall yearlings, daughters of Long King, bred to A Wonder; one fall yearling, daughter of Long King's Equal, bred to A Wonder; five fall yearlings, daughters of Long King's Equal; ten spring gilts, daughters of Long King; five tried sows, four fall yearlings, twenty spring gilts. All of strictly big type breeding and bred to our great string of herd boars.

This is going to be a great day for the Poland China world, so if you want the best, be in Clarinda, or be represented by some stiff bids when Duncan opens this sale. Bids sent to fieldmen or auctioneer, in our care, will receive closest attention.

J. W. PFANDER & SONS

Clarinda, Iowa

Auctioneer—H. S. Duncan. Fieldman—W. J. Cody.

40 RICHLY BRED

Duroc Bred Sows

AT AUCTION 40

AT FARM NEAR WATERVILLE, KANS.

Thursday, Feb. 29, 1912

10 TRIED SOWS. 20 SPRING GILTS.
10 SUMMER BOARS.

Females all bred for March and April farrow to Carter's Golden Rule, Clay Center Col. and Col. Tom. The tried sows include daughters of the great Queen's Col., Nebraska Wonder, Welch's Wonder, and granddaughters of Tatarax. The spring gilts and boars are out of these sows and others of like breeding, and sired by Blue Rapids Col. and Clay Center Col. Individually, the offering is a good one and the breeding is as good as can be found. Many of the sows and gilts have several crosses of the famous Missouri Wonder, Nebraska Wonder and Col. breeding, and have always made good. We will present the stock in nice breeding condition, with but little fitting. Write for catalog now. Free transportation to and from farm.

J. W. WOHLFORD,

Waterville, Kansas

Auctioneer—T. E. Gordon. Jesse Johnson will represent Kansas Farmer. Send him sealed bids, in my care.

FIELD NOTES

FIELD MEN.

Wayne Devine.....Topeka, Kan.
 Jesse R. Johnson.....Clay Center, Kan.
 W. J. Cody.....Topeka, Kan.

PURE BRED STOCK SALES.

Percherons and Jacks.
 Feb. 28—McKinnle & McMillan, Beloit, Kan.
 Feb. 29—John T. Fry, Udall, Kan.
 March 7—J. W. Barnhart, Butler, Mo.

Jacks and Jennets.
 Feb. 26-27—G. C. Roan, La Plata, Mo.
 March 5—L. M. Monsees & Sons, Smithton, Mo.
 March 6—W. J. Finley, Higginsville, Mo.

Aberdeen-Angus.
 April 9—W. W. Andrews and C. D. and E. F. Caldwell, at Maryville, Mo.

Herefords.
 Feb. 27-28—Jones Bros., Council Grove, Kan.

Jersey Cattle.
 April 25—Sale at Hiawatha, Kan., Western Jersey Cattle Breeders' Henry E. Wyatt, Falls City, Neb., Manager.

Shorthorns.
 Feb. 22—C. E. McKinnle, Beloit, Kan.
 Feb. 24—R. E. Maupin, Pattonsburg, Mo.
 April 10—H. M. Hill, Lafontaine, and S. C. Hanna, Howard, Kan. Sale at Fredonia, Kan.

Aberdeen Angus Cattle.
 April 30—American Aberdeen-Angus Breeders' Association sale at Omaha, Neb. Chas. Gray, secretary, Chicago.
 May 2—American Aberdeen-Angus Breeders' Association sale at Chicago. Chas. Gray, secretary, Chicago.

Poland Chinas.
 Feb. 20—E. E. Logan, Beloit, Kan.
 Feb. 20—J. D. Spangler, Sharon, Kan.
 May 20—Roy Johnston, South Mound, Kan.
 Feb. 21—W. A. Prewett, Asherville, Kan.
 Feb. 21—G. S. Hamaker, Pawnee City, Neb.
 Feb. 22—C. W. Jones, Solomon, Kan.
 Feb. 22—A. J. Erhart, Adrian, Mo.
 Feb. 24—R. E. Maupin, Pattonsburg, Mo.
 Feb. 24—C. H. Plicker, Glasco, Kan.; sale at Concordia, Kan.
 Feb. 26—C. S. Nevius and Ralph Wedd, Chiles, Kan.
 Feb. 27, 1912—L. R. McClarnon, Braddyville.
 Feb. 28—J. W. Pfander & Sons, Clarinda, Ia.
 March 2—F. W. Barber, Franklin, Neb.
 March 6—T. M. Willson, Lebanon, Kan.
 March 7—W. H. Emens, Elmdale, Kan.
 March 9—B. M. Bell, Beattie, Kan.

Duroc Jerseys.
 Feb. 17—John W. Shuck & Sons, Burr Oak, Kan.
 Feb. 22—O. B. Price, Burr Oak, Kan.
 Feb. 22—Jasper Auldridge & Son, Pattonsburg, Mo.
 February 24—J. R. Blackshere, Elmdale, Kan.
 February 26—Ward Bros., Republic, Kan.
 February 27—Monasmith, Formosa, Kan.
 Feb. 27—R. D. Martin & Sons, Eureka, Kan.
 Feb. 28—G. C. Norman, Winfield, Kan.
 Feb. 28—J. W. Wohlford, Waterville, Kan.
 March 12—Sam Drybread, Elk City, Kan.
 March 15—Leon Carter, Asherville, Kan.

The Big Percheron Sale.

At Beloit, Kan., on February 29, there will be held one of the greatest Percheron sales ever held in Kansas. Ralph G. McKinnle of Glen Elder, Kan., will disperse his entire stud, and H. G. McMillan of Rock Rapids, Iowa, owner of Calypso and retiring president of the Percheron Society of America, will consign. The McKinnle consignment will include a yearling imported filly sired by the \$10,000 Carnot 66666 now owned by W. S. Corsa, White Hall, Ill., and specially imported for mating with the great Calypso. This shows the quality of the Percherons to be offered in this sale. The stallion offering will be mentioned next week.

Government Selects Great Western Autos.

The fact that the United States government, after a thorough investigation, chose the Great Western automobile for the Indian service out west, is ample evidence of the merits of this sturdy car, which is built at Peru, Indiana. And to those who are familiar with the Great Western, this selection is not at all surprising; for the powerful engine, the high grade materials and workmanship and the general efficiency of this machine are designed to meet the most exacting demands. The cars purchased by the government are said to be giving excellent satisfaction in the severe work they are doing on the western hills and plains.

Stadt Sells Durocs February 22.

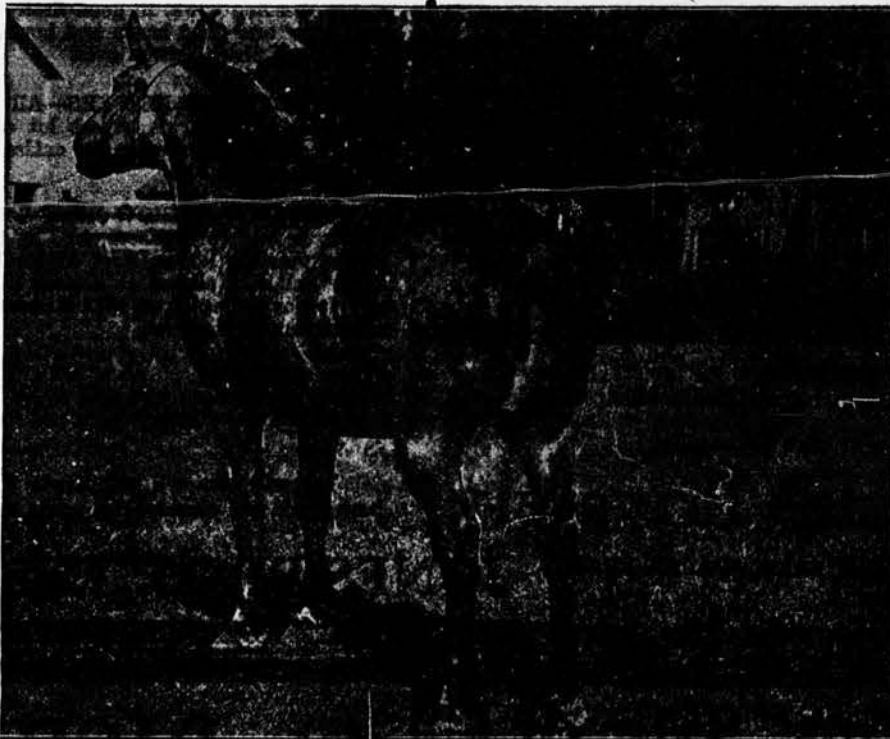
On February 22 at Ottawa, Kan., J. F. Stadt & Son will sell 35 head of their Crimson O. K. Duroc Jersey bred gilts. The sale will be held in the heated pavilion in Forest Park, which is about two minutes' walk from the depot and which was specially built for this purpose. All the gilts are closely related to Crimson O. K. 100649 and are bred to the Crimson Wonder bred herd boar, Paul Surprise 104897 for April and early May farrow. The Stadt herd of Durocs has been famous prize winners at the big fairs in the past, and they have a large number of letters from satisfied customers which tell of good business well done. These hogs are bred for size as well as quality, and are distinctively of the big type. Note the advertisement and ask for catalog.

Henry Field's New Seed Catalog.

One can hardly read the new catalog of the Henry Field Seed Co., the famous seedmen of Shenandoah, Iowa, without feeling an impulse to go out and dig in the soil. One of the many interesting features of the book is the description, with illustrations, of the mammoth seed corn handling plant. The whole book is much more than a mere catalog. It is full of meat on the subject of planting and cultivating the various crops of which the seeds are listed. Numerous reproduced photographs of farm scenes and of prominent planters and writers give to the book an interest not usually found in seed catalogs. As every farmer must plant seeds, it goes without saying that a study of the Field seed book for 1912 is one of the things that can't help but bring profit to everyone who is on the alert to know what is latest and reliable in the seed world. A copy will be sent you free by writing to the address above. Kindly mention this paper when writing.

R. E. Maupin's Shorthorn Sale.

We desire to call attention to the splendid offering of Shorthorn cattle by Mr. R. E. Maupin of Pattonsburg, Mo., February 24. This will be a dispersion sale and the offering will include every one of the high-class pure-bred Scotch and Scotch topped cows and heifers in this great herd. Also a number of outstanding good young bulls, and the great herd bull Nonpareil Avondale. A number of the cows in this offering were sired by Skyrocket 203377, he by Courtier 2nd, the famous bull owned by H. R. Clay. The older cows are bred to Nonpareil Avondale and the younger cows and heifers to a White Sultan bull. The breeding of this herd is all that could be desired. The first cow was Crystal Ruby 14th, by Chief Violet 4th. She, with her daughter Crystal Ruby 21st, sired by imported Primate Dalmeny, was the foundation of the herd. Among the cows and heifers to go in this sale are Lavender Duchess 16th by Lavender King 4th, head of first prize young herd at Chicago World's Fair. A number of her offspring will also be in the sale. Also offspring of Lavender Rose, by Gloster. Miss Orange 3rd by Violets Prince and several of her daughters, Maple Victoria by Headlight and three of her daughters, Nellie of Maple Hill by Brampton Prince and three of her daughters, and Crimson Rose by Brampton Bud, and a lot of others equally as good. The offering is entirely a high class one, and Shorthorn breeders will find breeding and individuality that go only with the best herds and that makes the offering a desirable one. Don't overlook Mr. Maupin's bred sow sale February 23, the day before the cattle sale. Write for catalog and arrange to attend the sale. Please mention Kansas Farmer.



America's Best Percheron Mare.

The imported Percheron mare Galette, shown in the accompanying picture, is said by many breeders and importers to be the best of her kind in America, if not the best mare of the breed now living. At least two American importers besides her owner saw this mare in France, and they unite in saying that they have never seen anything better. This wonderful mare has her home in Kansas, and is a member of the stud of about 100 Percherons owned by Lee Brothers at Harveyville. This stud now includes 12 coming two-year-old stallions, 20 coming two-year-old fillies, 20 brood mares from three to seven years old, and a splendid bunch of weanlings, and quality all along the line. In fact, Lee Brothers stand for quality, and it will be remembered that at least two of their mares were heavy prize winners in the big state fairs and the American Royal when shown in the stud of W. S. Corsa, who purchased them. There are plenty of high quality Percheron horses at the Lee Brothers' breeding farm, but none that excels Galette. At present they are sold out of stallions over three years old, but have another load of the big fellows on the way and will be able to supply their customers. A glance at Galette is enough to show the Lee Brothers' idea of quality in Percherons. J. H. Lee of this firm is superintendent of horses in the Kansas State Fair at Topeka, and no fair ever had a better. He knows horses.

Percherons, Land, Etc., at Auction.

On Friday, February 23, Mr. O. B. Price, at his farm near Burr Oak, Kan., will sell at public auction a very desirable lot of live stock, also his highly improved 50-acre farm. Included in this sale are four registered stallions. All of them have been in service the past season, and all of them are regular and sure foal getters. Two of them are imported horses, and two of them American bred. All have good pedigrees, as will be shown in the catalog which Mr. Price is issuing. Mr. Price will also sell three extra good jacks, two of them of serviceable age. Both have been in service the past year. They are good breeders and both have good size and style. The other is a yearling and very promising. There will also be seven registered Jennets, four of them old enough to breed and in foal to a good jack. The other two are good ones, but not yet old enough to breed. Besides this, Mr. Price will sell a lot of other horses and cattle, and 20 registered Duroc Jersey sows bred for spring farrow to a registered son of Bonnie K. The boar is also included in the sale. Mr. Price is moving to Missouri, and will sell everything listed regardless of price. Write at once for catalog, description of land, etc. Mention Kansas Farmer when writing.

National Nurseries, Lawrence, Kan.

A great many farmers of Kansas and adjoining states know about the National Nurseries at Lawrence, Kan. If you plant any trees, shrubs, vines, roses or other flowering plants, you should write for the catalog of this company, if you haven't already done so. This is an old-established nursery and has had a remarkable growth of business. The policy of sending out good, reliable stock, true to name, and paying the freight on it, has built up for the National Nurseries a very large army of customers. Kansas planters can get from this nursery stock grown especially adaptable for Kansas' latitude and climate. That is no small consideration when buying nursery stock which is to last for many years after planting. As a reliable Kansas institution, the National Nurseries are entitled to the patronage of Kansas farmers. No planter should overlook having their catalog before buying for his 1912 requirement. The catalog is sent free on request. Simply address as above. As a favor, kindly mention this paper when writing for it.

Tested Seeds of Proven Quality.

The time of year approaches when seed selections are decided upon. Just as the planting of the best seeds obtainable is a distinct gain, so the planting of poor seeds is a distinct loss. Not only a loss of money and crop, but what is more expensive, a loss of time. Most seed has to be purchased on the integrity of the seedsmen. It is important then to know the reliability of the man selling the seed. It is always well to buy seeds from the original producer, or the agent of the original producer. Many seed producers do not sell except at wholesale. Ten years ago a young man, J. S. Zimmerman, started in the seed business at Topeka. He determined he would handle nothing in his line of which the source of production was not personally known to him. He would keep on the alert for the proven varieties of vegetable, field and farm seeds, flower garden seeds, roses, plants and shrubs. That he knows his business is proven by the fact that from his very small beginning he now occupies two big floors of two big stores in the heart of Topeka's business district. He has built his business on the personal service plan. He sells direct by mail to growers everywhere. In this way he is sure of getting seeds to his customers just as he packed them for shipment. He thus delivers his seeds into the hands of his customers direct as they come from the fields of their growth. His new seed book is a delight to everyone who has tried to make up an order from the usual jumbled-together seed catalog. Zimmerman wrote his entire book himself and arranged it for easy and ready reference. He not only filled it up with information of value, but he fixed it up so the information could be got out of it without one getting nervous pros-

to A Wonder, will also be in this offering, also three Long King fall sows, bred to A Wonder. Five fall yearlings sired by Long King's Equal and bred to A Wonder will be a feature of the offering. Ten spring gilts sired by Long King, bred to Mouw bred boars, one matured sow by Long King bred to M's Hadley, one fall sow by A Wonder, bred to Big Ben, a Mouw bred boar, and 13 sows bred to a son of Mouw's Big Jumbo, completes one of the greatest offerings of Giant Polanda that breeders have ever had a chance to buy at public auction. Write for catalogs and, if possible, attend this sale. Please mention Kansas Farmer when you write.

Good Bred Sow Sale at Riley, Kan.

One of the very best big type Poland China bred sow sales of the season held so far was that of Mr. J. L. Griffiths at his farm near Riley, Kan. The offering was an unusually good one considering the fact that it was Mr. Griffiths' first attempt to hold a public sale. The condition of the hogs brought forth much comment by those in attendance, and the crowd, composed of a number of good breeders and a big crowd of progressive farmers, took the offering at very good prices. The offering was very uniform, as might be guessed by the uniformity of the prices. The offering was an early litter to the herd boar Big Bone Pete. Col. James T. McCulloch did the selling. The entire offering of bred sows and gilts averaged \$19.40. Following is a list of leading sales, with buyers' names and addresses:

1—W. D. Williams, Riley.....\$57.50
2—E. J. Baker, Riley.....37.00
3—F. D. Clark, Riley.....40.00
4—H. J. Griffiths, Clay Center.....48.00
5—John White, Riley.....42.50
6—Art Sharpless, Riley.....35.00
7—John Frey, Ogden.....40.00
8—M. H. Wagonrodt, Leonardville.....33.00
9—Lewellyn, Bala.....36.00
10—Ben White, Green.....44.00
11—Dr. Litsinger, Riley.....41.00
12—P. O. Clark, Riley.....34.00
13—V. A. Johnson, Riley.....34.00
14—George Jamison, Garrison.....32.00
15—T. P. Jones, Bala.....30.00
16—Sam Stone, Leonardville.....35.00
17—Charles Lepsperger, Leonardville.....31.00
19—J. W. Butler, Grainfield.....50.00
21—John Frey.....43.00
20—E. E. Merten, Clay Center.....45.00
22—James Arkell, Junction City.....37.00
23—W. O. Clark.....41.00
24—O. R. Strauss, Milford.....46.00
25—Dr. Litsinger.....34.00
26—O. R. Strauss.....42.00
27—Ben Lyne, Oak Hill.....36.00
28—W. W. Davis, Bala.....36.00
30—Art Sharpless.....50.00
31—A. J. Swingle, Leonardville.....107.50
32—Charles Lepsperger.....50.00
33—S. E. Baker, Riley.....40.00
34—L. J. Brethau, Green.....36.00

Percheron Sale February 29 at Beloit, Kan.

This will be one of the grandest offerings of mares ever made in the state of Kansas. There will be more weight and quality than has ever before been offered, and, for probably the first time in the history of the state, there will be offered at auction a pair of mares that were awarded high honors at that greatest of live stock shows in the world, the Chicago International. This pair of mares, like all the others that will be offered, was purchased by Mr. McKinnle to keep for breeding purposes on his farm near Glen Elder, but, on account of settling up an estate in which he and his brother are interested, he will sell them all without reserve to the highest bidder. Imported Goulotte 48947 (71858) now a 5-year-old mare, was first in class and reserve champion as a two-year-old at the Chicago International, and had many friends that year for the championship. The following year, with only six weeks fitting, she was fourth as a three-year-old, and was shown very heavy in foal. Mr. J. A. Gifford, the veteran Mitchell County breeder, paid \$400 for her weanling filly after visiting various breeding establishments to find a better one. This filly, now a yearling, weighs over 1,650 pounds, and will make more than a ton mare at maturity. Goulotte weighs 2,200, and is safe in foal to the great Carnot 66666, for which Mr. W. S. Corsa paid \$10,000. It was at Mr. Corsa's special request that this mare was bred to Carnot, and he pronounced her one of the best matrons mated to that great sire yet. She is very heavy boned, heavily muscled, and of all her size is a mare of refinement and has a really matronly and breezy appearance. She is by Bibl, one of the good stallions of the Tacheau stable, one of the oldest and best breeders of the Percheron in France. Her breeding, conformation and show record could not be better. A stallion colt from her and Carnot should be worth \$1,000, or even more, and should bring that. In fact Mr. Corsa sold in his sale last fall a filly weanling sired by Carnot and from a mare much inferior to Goulotte for \$1,000. A mare of equal if not greater value is Lucy 34974, also an International prize winner. Two years ago she was shown at all the great fairs, and was a winner wherever shown, from Iowa to the International, including the Minnesota State Fair, where she was champion mare. At the International she was second in class. That she comes of prize winning stock was demonstrated this year when the mare, Le Bala, by the same sire as Lucy, and whose dam is the sister of the dam of Lucy, was given second place in the open class and made champion American bred mare of the show. Later she sold for \$1,800, to go to one of the best studs in America. Lucy is a big, roomy mare, weighing 2,100, a regular breeder, and has a carriage and spirit that always makes her ready for a show. Her last spring's stallion colt weighs 1,200 now, and promises to make a 2,200-pound stallion at maturity. She is safe in foal to the nearly 2,300-pound stallion, Hardi 60541, that is also in this sale and that is the sire of the last year's colt. She cannot be bought too high, as she is among the best, not only in the state but in the United States. Other ton mares of extraordinary worth and breeding are mares by Aride, sire of the champion mare of the International in 1909, and the sire of many other prize winners, daughters and granddaughters of the justly celebrated Samson, granddaughters of Casino, and daughters of the greatest prize winning sire in America, the well known Calypso.

W. W. Andrews, C. D. and E. F. Caldwell

W. W. Andrews and C. D. and E. F. Caldwell are claiming April 9 as the date of their sale of Angus cattle. This sale will be held at Maryville, Mo., and the offering will be selected from two of Missouri's best Angus herds. The herd of Mr. Andrews, of Maryville, Mo., and that of C. D. and E. F. Caldwell, of Burlington Junction, are classed with the best Angus herds in the country.

McBrayer's Sale Postponed.
The closing out sale of Percheron stallions, jacks and jennets, announced for March 2, by Mr. W. J. McBrayer at Hamilton, Mo., has been postponed until further notice. Watch Kansas Farmer columns for other announcements.

J. O. James' Sale Average \$73.
The Big Orange offering of J. O. James, Braddyville, Ia., February 7, attracted the leading Poland China breeders of both east and west, and the sale was one of the best of the season. The average for the sale, including a number not catalogued, was \$73. The top was \$150. Twenty-seven head of sows bred to Big Orange averaged \$90 per head. The following is

List of buyers:		
Story, Kewana, Ill.		\$125.00
C. Cycoff, Kellerton, Ia.		95.00
A. Nelson, Miami, Texas.		165.00
Stephen Brown, Shambaugh, Ia.		107.50
W. Staples, Burlington Junction, Mo.		45.00
W. Staples.		120.00
D. Jones, Union, Ia.		180.00
A. Hale, Onawa, Ia.		150.00
D. Garwin, Essex, Ia.		115.00
O. Trout, Urbana, O.		92.50
C. Wycoff, Kellerton, Ia.		85.00
Story.		92.50
O. Trent.		87.50
W. Staples.		
I. Staples, Burlington Junction, Mo.		102.50
G. Cashen, Grand River, Ia.		50.00
W. Staples, Burlington Junction, Mo.		72.50
J. Black, Fairbury, Henry, Ill.		77.50
William S. Keep, Atlantic, Ia.		60.00
W. Staples.		100.00
W. Thompson, La Fontin, Ind.		72.50
B. Lawson, Clarinda, Ia.		65.00
I. Staples.		87.50
E. Zimmerman, Neola, Ia.		82.50
T. Huston, Clarinda, Ia.		55.00
D. Garwin, Essex, Ia.		75.00
W. Staples.		72.50
E. Nuzman, Circleville, Kan.		50.00
I. Staples.		50.00
I. Staples.		40.00
N. Billingsley, Burlington Junction, Mo.		40.00
G. Cashen.		40.00
M. W. Staples.		40.00
Jacob Sparks, Pattonsburg, Mo.		67.50
N. I. Staples.		42.50
N. B. Zahn, Concord, Ill.		47.50
C. Taggart, Braddyville, Ia.		40.00
M. W. Staples.		47.50
C. Nicholson, Lorensville, Ia.		54.00
W. Staples.		47.00
N. I. Staples.		80.00
Wigston, Stanton, Ia.		49.00
N. I. Staples.		39.00
M. Billingsley.		45.00
M. W. Staples.		43.00
N. I. Staples.		

J. B. Lawson's Average \$88.50.
The Poland China brood sow sale of John B. Lawson, at Clarinda, Ia., February 6, which was advertised in the Kansas Farmer, was one of the best of the season. The 48 head sold averaged \$88.50, and the average of the 45 head catalogued was \$93. The top of the sale was \$177.50, and went to E. H. Matthews, of Tabor, Ia. A feature of this sale was a litter of 10 April, 1911, gilts that sold for \$862.50. The following is a list of buyers and prices:

List of buyers and prices.	
J. O. James, Braddyville, Ia.	\$ 95.00
John Dewey, Clarinda, Ia.	75.00
W. P. Harrigan, Solomon, Kan.	60.00
J. D. Andrews, Manchester, Ill.	100.00
A. J. Podendorf, Logan, Ia.	51.00
A. J. Douglass, Bedford, Ia.	51.00
James M. Purcell, Jerseyville, Ill.	60.00
H. Zahn, Concord, Ill.	58.00
M. W. Staples, Burlington Junction, Mo.	53.00
M. W. Staples.	71.00
L. P. Kersham, Muskogee, Okla.	62.00
R. F. Stedem, Carthage, Ill.	55.00
C. A. Patten, Ray, Colo.	56.00
J. E. Story, Kewanee, Ill.	175.00
Roy E. Stedmen.	152.50
W. E. Zimmermer, Leona, Ia.	105.00
Dr. Eugene Closser, Cairo, Ia.	125.00
J. E. Story, Kewanee, Ill.	100.00
H. C. Rowe, Vernon, Neb.	85.00
J. F. Staples.	77.50
B. E. Shull, Riverton, Ia.	110.00
E. H. Matthews, Tabor, Ia.	145.00
E. H. Matthews, Tabor, Ia.	77.50
W. Wycon, Kertont, Ia.	92.50
E. H. Matthews, Tabor, Ia.	100.00
R. E. McAdin, Gravity, Ia.	80.00
B. W. Staples, Burlington Junction, Mo.	67.50
John Dewey, Clarinda, Ia.	75.00
L. C. Hall, Macquokato, Ia.	50.00
John Dewey.	65.00
Elljah Powell, Vandalla, Mo.	70.00
L. P. Cusbond, Muskogee, Okla.	85.00
A. J. Podendorf, Logan, Ia.	120.00
E. Daniels, Gower, Mo.	82.50
Theo. Martin, Bellview, Ia.	85.00

sas climatic conditions. Also, the soil there is similar to Kansas soil. The men who own and operate the Fairbury Nurseries know from experience which varieties of trees, etc., are best adapted for their territory and make a specialty of propagating these particular kinds. This year they have a fine lot of stock, which they are selling direct to farmers for wholesale prices. This company's policy is to deal fairly with all customers, shipping just what they agree to ship. They are in position to ship promptly, as soon as the shipping season opens. All intending planters will do well to write Fairbury Nurseries, Fairbury, Neb., for their catalog and prices. The catalog and prices will show the money saving possibilities, besides the opportunity to get stock which other nurseries do not have. When writing, the favor will be appreciated if you will kindly mention Kansas Farmer.

"Ikey Boy," there are no "lemons" at Iams' "horse emporium." He "hands you" a real "peaches and cream" imported stallion "inspected" and "certificated" marked O. K. by government of U. S. A. Moral—Buy an "imported" stallion or mare of Heremans and you won't "get stung." "Ikey Boy" and his "king bee"—"peaches and cream" horse importer, is on "Easy street" and "going fast." His 1911 importation of big, "nifty," "reat drafters," are in the "pink of condition" and ready for a "good selling." He has 120 imported stallions and mares—"hamdingers" from Paris and Belgium medal winners, the best lot of "top-notchers" the U. S. They will all possibly be sold. They are big, classy, "never heard of before," "rarely Dimples," "smile and the world smiles with you," if you buy "peaches and cream" horses of Iams, or "knock" and

ter stallion at \$1,000 and \$1,400 (some higher) than are being sold to farmers' stock companies at \$4,000. Iams wants your assistance—that's why he advertises "lams" imported horses are all "approved," "branded," "inspected," and "certificates marked O. K." by governments of France and U. S. A. Iams can place \$1,500 insurance. He is an "easy man" to do business with, and his horses are so good they sell themselves. You say, "Why can Iams sell better stallions at half the price of others?" Iams buys and sells every stallion himself; he buys stallions by "special train load," 100 at a time. Hey "speaks the language, saving 20 per cent. He is not in the "stallion trust," saving you \$300. He pays no "slick salesman" \$1,000 to sell you a fourth-rate stallion. He has no two to ten partners. He pays spot cash for his stallions. He sells stallions by "hot advertising" and



IAMS AND A TRIO OF "PEACHES AND CREAM" BEAUTIES.
Iams has 120 imported Percheron and Belgian stallions and mares, three to six years old, weight 1,700 to 2,500 pounds. All Iams horses are approved, branded and inspected, and marked O. K. by governments of France and United States.

Durable Lightweight Farm Engines.

A recent article in the Gas Review gives the information that the modern lightweight, high speed gasoline engine are as durable as the old-time, heavyweight slow speed engines. Also, that there are as economical in the use of fuel, and the range of adaptability for various kinds of farm work is wider. The high grade farm Cushman engine runs at the normal speed of 800 r. p. m., which, however, can be regulated as desired from 300 to 900 r. p. m. It has been proven by years of use that this particular type of higher speed engine is even more durable than the ordinary heavier slow speed engine. The Cushman piston travel with a short stroke is less than the many other engines of equal power, so the piston wear or engine wear is less. As the speed of the Cushman is higher, it is said, sometimes, the crank bearings would wear out sooner. This would be true were it not for the fact that the Cushman is so light weight that the friction is less and the bearings are equipped with an additional wipe wick oiler that other farm engines do not have. The su-

you "knock" alone—as Iams' "top notchers," "cut prices," and his cheerful grin value you in to his "special" marked down prices. Iams' six financial letters of recommendation from six of the best breeders in Nebraska (shown in his 1912 catalog) tell you why you should buy imported stallions and mares of Iams. Iams' 30 years of successful business—his "one-half million dollars" behind his guarantee—the fact that he is a "live wire" business man—an expert horseman—in a "class by himself" and 20 years in advance. He makes all competitors "stammer and stutter" and get "their hammers" out for Iams. But "every knock" is a "boost" for Iams, as when stallion buyers visit "Iams' horse emporium" they find Iams has the horses as represented—that Iams is a "prince among men" and "makes good," and his "old customers" are his best "whole page advertisers"—Ikey boys and girls, too. Iams has 80 prize winners from Paris, Brussels and European "horse shows." Iams' "hypnotizes" buyers with "top notchers" at "bargain counter prices," makes horsemen and women "sit up and smile sweetly and sing Iams' song." "Ikey boys" buy "black and gray boys" of Iams. Iams' 1912 horse catalog (just out) is an "eye opener," a "bunch of gold" to stallion and mare buyers. It is full of facts, truths, "business propositions" and 100 illustrations of the best and largest imported stallions and mares in the United States. This "warma book" is full of "Iams' kind"—the "peaches and cream" stallions. It shows the "tricks" of "Iams' kind" and the "auction block" salesmen. It is the finest, most "original" horse book in the world. Iams sells stallions "on honor." "A boy or lady" can buy "as cheap as a man" and get a better horse of Iams, the "square deal" horseman. If you visit him and don't find every statement in his advertisement and catalog as represented, you can get the \$500 that he hangs up. "Come on along, Ikey boys," when you wish to buy the real "simon pure" "drafters" and save \$1,000, and get "square treatment" of Iams, who has made all competitors "few more" wiggles" of their own and "few more" for 30 years. "Just smoke" and buy a through ticket to "Iams' town." He is the "square deal" horseman and the largest individual importer and breeder of Percherons and Belgians in America. He will save stallion buyers \$300,000 in 1912 and sell them a "peaches and cream" stallion or mare that will make them \$1,000 in service fees in 1912. "Ikey boys," this is the "gold mine" year for you to buy and breed horses. Take that money out of your "old tobacco box" and buy a stallion and four mares of "Iams, the king horseman." Then you will be making money daily. "Ikey boy" buzz around Iams' "business" and "show horses." There are "classy," "show-yard winners." These "top notchers" are two to six years old, weigh 1,800 to 2,500 pounds, 80 per cent blacks. Iams sells his show horses annually. He buys new and better ones each year. For 3 years Iams has been "bumping the heads" of the "gold brick" stallion salesmen with better stallions, forcing the breeder and importer with inferior stallions and mares to sell them on the "auction block." Mr. Ikey, no first-class stallions or mares are ever sold by "peddlers" or on the "auction block." Iams guarantees to sell you a be-

having the "goods." Iams will save you \$1,000 in middlemen's profits. Prices reduced \$200 on Iams' "show horses." Iams' selling clothes fit all buyers. Write for his 1912 million dollar horse catalog, just out.

Nebraska Wonder and Col. Bred Sows.
One of the best chances of the season to buy Duroc Jersey bred sows is close up to some of the greatest sires of the breed will be at the J. W. Wohlfort sale to be held at Mr. Wohlfort's farm at Waterville, Kan., Thursday, February 23. This offering of 40 head, composed of tried sows, spring gilts and summer boars will be one of the good offerings of the winter, and will include daughters of Nebraska Wonder, G. C.'s Col., Queen's Col., and other boars of note. Queen's Col. is the sire or grandsire of a big per cent of the offerings. This boar was sired by King of Cols. 2nd, and his dam was Chester Thomas' famous sow **Crimson Queen** by **Crimson Wonder**. Others are daughters of G. C.'s Col., one of the greatest living boars of the Col. family. The spring gilts and boars were sired by **Blue Rapids Col.**, by Col. C., and by **Clay Center Col.** by King of Cols. 2nd. The sows and gilts are bred for March and April farrow to **Carter's Golden Rule**, **Clay Center Col.**, and **Col. Tom** by **Queen's Col.** **Carter's Golden Rule** was sired by **Golden Rule Special**, he by **Pearl's Golden Rule**. The summer boars are good ones and will be just right for service now and next spring. In fact it will pay any farmer or breeder to buy one of these choice young boars and keep him over for next fall service. The cost of keep would be but a trifle, and so much better results may be expected from a breeding boar with age. Mr. Wohlfort is in the breeding business to stay, and is trying and succeeding in putting up an offering that will please on sale day. He isn't expecting record breaking prices, but is anxious that as many as possibly can inspect his herd on sale day.

HIDES AND FUR MARKET.
(Furnished by Jas. C. Smith Hide Co., 108
East Third Street.)

HIDES—Salt cured, No. 1, 12½¢; No. 2, 11½¢; side brands, under 40 lbs., per lb., 10¢ flat; side brands, under 40 lbs., 9½¢ flat; bulls and stags, No. 1, 9¢; No. 2, 8¢; glue hides, 6¢ flat; horse hides, No. 1, \$3 @ 3.50; No. 2, \$2 @ 2.50; tallow, No. 1, 50¢ @ 3.00; No. 2, 4¢; sheep pelts, 35¢ @ 85¢. Green uncured hides, 1½¢ less than same grade cured. Green half cured, ½¢ less than cured. Green frozen hides grade as No. 2.

FURS—Mink, Central—No. 1 large, \$4.50 @ 6.50; No. 1, medium, \$4.25 @ 3.50; No. 1, small, \$3.00 @ 2.00. Raccoon, Central—No. 1, large, \$2.00 @ 1.25; No. 1, medium, \$1.25 @ 1.00; No. 1, small, 90¢ @ 65¢. Skunk—Primo, black, \$3.00 @ 4.00; short stripe, \$2.00 @ 2.50; narrow stripe, \$1.35 @ 1.50. Broad stripe, 75¢; best unprime, 75¢ @ 1.25. Muskrat, Central—No. 1, large, 50¢ @ 35¢; No. 1, medium, 38¢ @ 30¢; No. 1, small, 25¢ @ 20¢. Fox, Red and Gray—No. 1 red, \$5.00 @ 1.25; No. 1, gray, 75¢ @ 2.00. Wolf, Fisher and Timber—No. 1, prairie, \$4.00 @ 7.50; No. 1, timber, \$6.00 @ 1.00. Cat, Wild and House—No. 1, wild, \$1.10 @ 25¢; No. 1, house, large, black, 20¢ @ 10¢; No. 1, house, medium, colors, 10¢ @ 5¢. Civet, Central—No. 1, 45¢. Badger—No. 1, \$1.00 @ 30¢. Early caught furs at value.

Missouri Auction School Students' Sales, Kansas City, Mo., August term, 1911. Next four weeks' actual practice term opens March 4, 1912, at 1404 Grand Ave., Kansas City, Mo. Further information on request. Address, Mo. Auction School, as above.

M. W. Staples, Burlington Junction, Mo.	65.00
Boyd Morgan, Allerton, Ia.	77.50
Joe Cheesser, Coln, Ia.	50.00
P. E. Stedem.	72.50
J. W. Pfander & Sons, Clarinda, Ia.	92.50
Verny Daniels, Gower, Mo.	150.00
W. R. Zahn, Concord, Ill.	107.50
E. H. Matthews, Tabor, Ia.	177.50
W. H. Moore & Son, Geneva, Neb.	85.00
W. C. Williams, Pennville, Ind.	100.00
W. W. Staples, Burlington Junction, Mo.	80.00
W. W. Staples.	77.50
Twenty-seven sows bred to Long King's	
Equal sold for an average of	\$97.50 per head.

terior design with automatic throttle governor on the Cushman, which prevents any jerks, is another reason why the Cushman is the longest and runs more satisfactory. This type of governor, with the float feed carburetor, like the Schebler, which gives greater economy is another advantage. The better material and workmanship in the higher grade, higher speed engines like the Farm Cushman is also another reason. It is hard to compare the light weight Cushman that is especially built and designed as an all-purpose and farm engine with the ordinary type of engine, but with the Cushman factory making a specialty of one 4 H. P. cycle, all purpose engine and building up more of this particular size engine than any other factory in the world, it gives them considerable advantage over other engines that are used for farm work.—Cushman Motor Works, Lincoln, Neb.

When writing advertisers, please mention
KANSAS FARMER.

Nursery Stock for Kansas Planting.
The Fairbury Nurseries, Fairbury, Neb., are well situated to grow nursery stock adapted for Kansas planting. It is just far enough north to insure hardy, vigorous trees, shrubs and plants, and still not too far north to get out of the range of Kan-

BUILDING MATERIAL PRICES ABSOLUTELY SMASHED!!

SEND US YOUR LUMBER BILL FOR OUR ESTIMATE

\$493 Our price for the material to build this house.



HOUSE DESIGN No. 111

Here is a neat, cozy, little cottage that can be built at the minimum of cost under our guaranteed building proposition. Size, 23 ft. 6 in. wide by 33 ft. Five rooms and bath. All the comforts desired by home-loving people. Extra large porch. Convenient interior. For the price it is impossible elsewhere to secure a home with so many excellent features.

\$635 Our price for the material to build this house.



HOUSE DESIGN No. 149

The Mansard roof construction of this design enables the owner to utilize all space to the best advantage and get the very most to be had for the money. Size, 21 ft. wide and 28 ft. deep, six rooms, bath and basement. This design offers more convenience than many larger and higher priced houses. Is constructed of the very best materials at a magnificent saving.

\$698 Our price for the material to build this house.



HOUSE DESIGN No. 6

This is our leader. Size, 23 ft. by 33 ft. 6 in.; 7 rooms and bath. There has never been a design offered that can be built in so economical a manner with less material to produce satisfactory results and a general effect of elegance than this house. Has satisfactorily been built more than 400 times during the last two years. A beautiful home at a splendid money-saving price.

\$835 Our price for the material to build this house.



HOUSE DESIGN No. 130

Size, 25 ft. 10 in. x 29 ft. 6 in.; eight rooms and bath, pantry, vestibule and large hall. A square, solid, substantial construction. All space is advantageously utilized. The Colonial windows and porch columns are distinctive features. For convenience and artistic arrangement, general elegance of appearance, and low price, this house is unequalled.

CHICAGO HOUSE WRECKING COMPANY THE GREAT PRICE WRECKER.

We buy supplies at Sheriffs', Receivers', and Factory Sales, besides owning outright saw mills and lumber yards. Usually when you buy your building material elsewhere for the complete building shown in this advertisement, it costs you from 30 to 60% more. By our "direct to you" methods we eliminate several middlemen's profits. Every stick of lumber and every bit of building material offered in this advertisement is guaranteed brand new and first class; as good as you can purchase from anyone anywhere.

You run no risk in dealing with us. Our capital stock and surplus is over \$1,500,000.00. Our 19 years of honest dealing guarantees absolute satisfaction. Any material not up to our representation may be returned at our freight expense both ways and money refunded in full.

Our wonderful spring building offer sets a new pace in the building world. Never before have such remarkably low prices been published.

Our stock includes practically every manufactured article. Besides building material we have a complete stock of Dry Goods, Clothing, Boots and Shoes, Furniture, Household Goods, Groceries—in fact everything needed in the home, on the field or in the workshop.

CORRUGATED ROOFING Per Square \$1.25

Roofing Prices Smashed. Metal roofing is superior to all other coverings. A fact proven absolutely and conclusively of 100 years of actual experience. We carry a complete stock of all styles.

Here is a roofing offer that has never before been equalled. We have 5,000 squares of Corrugated Iron Roofing sheets all 22x24x1 1/4 in. corrugation. Strictly new first-class that we offer at \$1.25 per square Free on Board Cars at Chicago. At this price we do not pay the freight, but if you will write us for our Great Roofing Offer, we will make you Freight Prepaid Prices lower than ever offered in the history of roofing material.

Our stock includes painted and galvanized. We can furnish it in flat, corrugated, standing seam, "V" crimped, brick siding, beaded ceiling and in ornamental fancy ceiling. In fact we can furnish you every want in the covering line.

A hammer is the only tool needed in putting on all grades but the standing seam. We give you free with every order for 3 squares or more a handsome serviceable crucible steel hammer that ordinarily retails from 75c to \$1.00. Write today for our Great Complete Roofing Catalog, and our latest Roofing quotations.

"PREMIER" HOUSE PAINT Per Gallon \$1.08

Mr. V. Michaelsen, Supt. of our Great Paint Dept. is probably the best known paint man in the world. His picture has appeared on millions of gallons of cans. He is our guarantee of quality. Our Ready Mixed "Premier" Brand of Paints are made under a special formula and will give the best service and satisfaction. Our prices range from \$1.08 to \$1.21, depending upon quantity.

Our "Premier" Barn Paint is an ideal protection for barns, roofs, fences, outhouses and all general purposes. This is a paint in which Mr. Michaelsen has put all his personality. Comes in green, maroon, yellow, lead, red and slate.

In 1 gallon cans, per gallon.....82c
In 25 gallon cans, (1/2 barrel), per gallon.....72c
Write to-day for our Great Color Card and prices.

\$37.50 BUYS COMPLETE BATHROOM OUTFIT.

Here is an outfit that is good enough for any home. It is strictly a No. 1 and first-class in every particular. The bath tub and lavatory are white porcelain enameled over iron. The closet is a syphon acting low down outfit.

It is our lot No. 5-AD-33.

Our handsome Plumbing Catalog lists many other outfits ranging in prices from \$26.30 to \$92.50. We will furnish all the Plumbing material needed for any of the houses shown in this advertisement, including one of the bathroom outfits described above, besides a one piece roll rim white enameled kitchen sink, with white enameled drain board, a 30 gallon range boiler and all the necessary pipe and fittings, and all material of every kind to complete the entire plumbing system, including all fixtures, furnished with iron pipe connections for the sum of.....\$83.95

WALL BOARD Our Magic Wall Board

is positively the best on the market. This is the Wall Board that has a backing of regular 4 ft. lath and Asphalt Mastic, the face side of which is heavy card board, properly sized, ready for calclining, paint or wall paper. It comes in sheets four feet square. Write us what space you wish to cover and we will send you descriptive circular and name you delivered prices. Be sure to mention Mastic Wall Board M-W-22.

Price per square.....\$2.50

READY ROOFING, PER SQUARE 85c

Our Rawhide Roofing is the highest grade roofing at the lowest price ever offered. It has a foundation of tough fibre texture so substantially prepared that it is well-nigh indestructible. Every foot carries our iron-clad guarantee to be absolutely right.

In addition to our high grade Rawhide Roofing, we offer for a limited time 10,000 squares of our Ajax Brand of Ready Roofing at 85c per square. It is put up 108 square feet to a roll. Price includes large headed nails and cement sufficient to lay. While it is practically the same as our Rawhide Roofing, it does not come in continuous lengths; maybe two or three pieces to a roll, of course that does not affect the quality. Our price for this Ajax Brand, 1 ply, is.....85c

This price includes freight to Illinois, Indiana, Iowa, Wisconsin, Ohio and Michigan. Write today for free samples.

LUMBER PRICES SMASHED

Now is the time to get our prices on lumber or building material. Do not hesitate to send us a list of your wants, whether it is lumber or mill work, complete house, barn or corn crib, or a plan of your own that you wish developed. We have the best Lumber Yard in the United States, experienced Architects, and can give you unequalled service in shipment, quality, finish and design. We are the only concern in the United States that has all the building material right here at Chicago where you can come and see it loaded, and from which point IMMEDIATE SHIPMENT can be made. We can furnish everything from a common board to the finest Quarter-Sawn Interior Finish, including Mill Work, Doors, Mantels, Colonnades, Slide Boards, etc.

Following are some of our bargain prices:

Extra Star A Star Washington Red Cedar
Shingles, Per M.....\$ 3.39
5-2 all Clear Washington Red Cedar
Shingles, Per M.....\$ 3.78
No. 1 Drop Siding, Yellow Pine, kiln dried \$23.50
No. 1 Flooring, 4 in. Yellow Pine, Per M. \$18.00
No. 1 Ceiling, 1/2 x 4 in. Yellow Pine, kiln dried, Per M.....\$16.50
No. 2 Ceiling, 1/2 x 4 in. Yellow Pine, kiln dried, Per M.....\$14.00

GALVANIZED WIRE Per 100 Pounds \$1.25

This is our price for Smooth Galvanized Fence Wire, known as Wire Shorts. It comes in various lengths, put up 100 lbs. to the coil. \$1.25 is our price for our 6-gauge; other gauges in proportion.

We offer brand new Galvanized Spt. Barbed Wire put up on reels, containing about 100 lbs. Price per 100 lbs. \$1.85

We can furnish this also in 4 point at the same price; also unpainted at \$1.50 per 100 lbs. Better order now while this remarkably low price exists.

26 inch Square Mesh Hog Fencing, per Rod 15 Cts. Here is a bargain such as has never been offered. A heavy weight new Galvanized, well built hog fencing, suitable for general purposes at 15c a rod. Other sizes at equally low prices.

Crimped Wire for Re-inforcing. We can furnish No. 9 Galvanized Crimped Wire in lengths required for re-inforcing purposes. Price per 100 lbs. \$2.25

Write for our Wire and Fencing Catalog. Tells all about our Samson's Woven Wire Fencing. Also quotes low prices on Barbed Wire, Smooth Wire, and tells about Lawn and Garden Fencing; describes gates and posts.

IRON PIPE AND FITTINGS

Rejuvenated Pipe, in random lengths, complete with couplings suitable for gas, oil, water and conveyance of all liquids. Sizes 1/2 inch to 12 inch.

1 inch, per foot...3c 1 1/2 inch, per foot...3 1/2c
Send us specifications and we will quote for your exact requirements. Also a complete stock of Valves and Fittings.

Our price for the material to build this barn. **\$580**



OUR JOIST FRAME BARN No. 221

Size, 36 ft. by 48 ft. Height to top of roof, 38 ft. 6 in. The most practical and serviceable barn ever designed. No heavy timber in the entire structure. Self-supporting roof. No joists in hay-loft. This design represents strength, rigidity, economy of construction, and is absolutely dependable and substantial. Write us for more complete information.

Our price for the material to build this barn. **\$620**



OUR "STAR" BARN DESIGN No. 270

Size, 53 ft. wide by 80 ft. long 24 ft. to comb. An ideal barn for farmers raising stock on a moderate scale; balloon type. The hay-mow extends to the ground floor and above the grain rooms on each end of the barn. Cattle stalls on one side of the hay-mow; horse stalls on the other. Excellently ventilated in every part. A practical barn well built of guaranteed first-class material, and will give excellent, all around satisfaction.

Our price for the material to build this barn. **\$639**



BARN DESIGN No. 250

Size, 30 ft. wide and 60 ft. long, 18 ft. to top of the plate. A barn arranged exclusively for horses. Has 12 single stalls, 5 ft. each, and 6 double stalls, 10 ft. each. Ten foot driveway. Can also be used as a horse and a cattle barn and will accommodate 13 horses and 18 head of cattle. A building of brand new high grade materials, dependable construction, sanitary and generally convenient throughout.

Our price for the material to build this barn. **\$955**



ROUND BARN DESIGN No. 206

Size, 60 ft. in diameter and 18 ft. high to plate. Has 14 sides, each side 14 ft. A 16 ft. Silo in the middle, same being 36 ft. high and will hold 160 tons of silage. Hay capacity, 65 tons. Will accommodate 100 head of cattle. The many and excellent features offered by this construction, the high grade materials furnished by us, and our extremely low price makes this a barn bargain worthy of thorough investigation.

FILL OUT THIS COUPON No. R.F.

Chicago House Wrecking Co., Chicago.
I saw your ad in the KANSAS FARMER, 61
I am interested in.....
Place an X in square opposite book you want sent free.

Building Material Book	<input type="checkbox"/>	Paint Book	<input type="checkbox"/>
Plan Book	<input type="checkbox"/>	Wire List	<input type="checkbox"/>
Roofing Book	<input type="checkbox"/>	Iron Pipe	<input type="checkbox"/>
Plumbing Book	<input type="checkbox"/>	Acety. Lighting	<input type="checkbox"/>
Heating Book	<input type="checkbox"/>	Concrete Mach.	<input type="checkbox"/>

Name.....
Town..... County.....
State..... R. F. D. P. O. Box.....

ANY OF THESE PRICE WRECKING BOOKS SENT ABSOLUTELY FREE!

PLAN BOOK Upwards of 100 medium price houses, barns and other designs shown. Each design represents beauty, utility, substantial construction and the lowest possible price. This Valuable Book Free.	ROOFING BOOK This book explains all about metal roofing ready roofing and all other styles. Tells how to apply same in the most economical and satisfactory manner. Quotes lowest prices on highest class material. Sent Free.	BUILDING MATERIAL BOOK The greatest book on Building Houses ever sent free. Tells all about our wonderful stock of Lumber, Sash, Doors, Roofing, Hardware, Plumbing, etc. and Heating. Write For It Today.	PLUMBING BOOK A complete education in plumbing so you can equip any building of any style or size and save at least 50%. HEATING BOOK Hot water, steam and hot air heating fully described. This Book is Free.	PAINT BOOK A book showing actual colors, 40 shades to select from. Informs you fully regarding application to get lasting results. Every quotation a saving of 30% to 50%. Tells all about painting and painters' supplies. Free Paint Book.
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CHICAGO HOUSE WRECKING CO., 35th and Iron Sts., CHICAGO