

KANSAS FARMER

FOR THE IMPROVEMENT

OF THE FARM AND HOME

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WHEN Joseph in Egypt produced the wonderful corn crops which made that country the master of the commercial world, his people marveled and thanked their gods for turning the open mouth of the cornucopia toward them. Such crops were so unusual that they became historical and found mention in the Bible. They grew but once in that land of hand labor, and the people remained poor. Their gods failed them and the cornucopia was turned away to remain immovable.

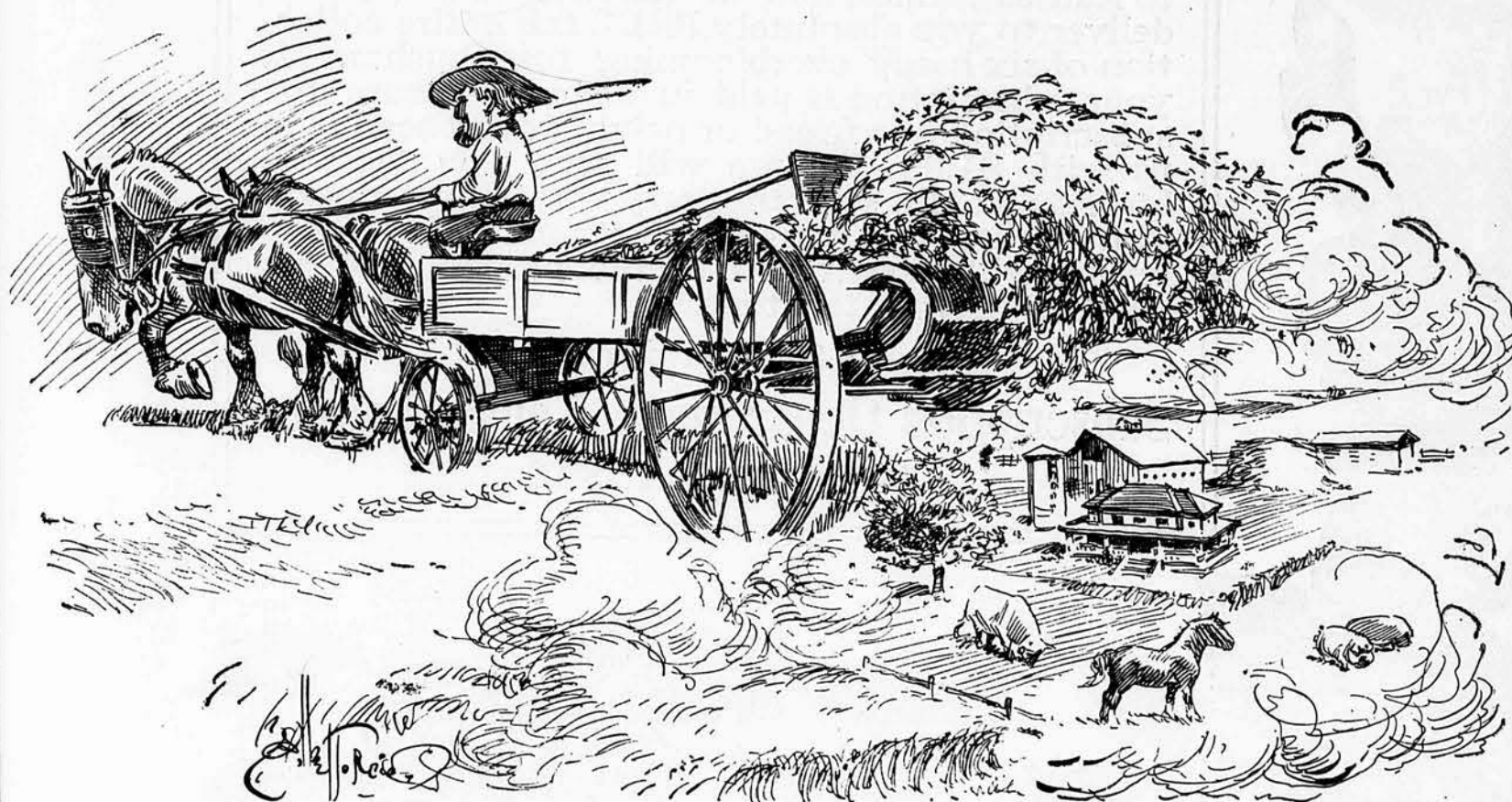
A nation's poverty is measured by its dependence upon hand labor; its wealth by its ability to invent and operate machinery.

The American farmer produces each year crops which exceed all previous records, and the cornucopia is always open toward him. But his cornucopia is mounted upon wheels, drawn by horses, and the blessings it spreads broadcast grow from the refuse of his barns and feed lots.

With this he is commercial master of the earth. Without it the world could not long be clothed and fed.

The glory of our land is reflected from its farms, and its prosperity comes out of the earth. As the crops are reaped by creatures of man's ingenuity, so is the soil fertility restored, and the seven lean years rendered forever impossible.

I. D. G.



The Modern Cornucopia

ROSES THAT BLOOM FREE and Bloom all Summer FREE

Roses, the mere name is an inspiration to garden lovers. It is impossible to describe the grace and beauty which can be added to home surroundings with an abundance of roses, lovely in flower, foliage and fragrance, luxuriating in sunny corners, filling them with exquisite color and delicious perfume. This entire collection consists of the valuable kinds of known merit, those possessing every attribute of perfection, responding eagerly and bountifully to every attention. They are the choice everblooming, which with proper planting and slight care will bloom this season and every month of the season. They are guaranteed to reach you in good growing condition and that each one obtaining this collection may succeed in growing fine roses, special printed instructions on how to care and plant roses will accompany each collection.

RHEA REID

A wonderful new introduction possessing every quality a perfect rose should have. It is a strong, healthy grower throwing forth long graceful branches, which are densely covered with heavy, deep green foliage and handsome double flowers, which are produced in the greatest profusion all through the growing season. It has the vitality necessary to withstand all attacks of mildew and insects which so frequently destroy our best roses. The buds develop into large double flowers, formed of thick petals of excellent substance which retain their freshness and beauty for an extensive time. The color is a brilliant rich red, one of the richest reds in existence and the fragrance is delicious.

YELLOW KAISERIN

To produce a yellow rose to meet all the requirements of beauty, rapid growth and free blooming habit has been the aim of rose growers in the past and now success has come in the production of Yellow Kaiserin. It is a robust rapid grower, very hardy, quickly making a well formed bush on which great masses of exquisite golden yellow roses are borne. A description is inadequate to portray the regal beauty of the elegant buds and flowers which are the glory of the plant. The fragrance is distinctive and delighting.

PRESIDENT TAFT

This lovely new rose just introduced has taken every one by storm and after having seen it in bloom we can well appreciate their enthusiasm. It is a strong, healthy grower, throwing forth long, graceful branches, which are densely covered with heavy, deep green foliage and handsome double flowers, which are produced in the greatest profusion. The buds are formed of thick, smooth petals of excellent substance which retain their freshness and beauty of color, which is a sparkling bright pink.

BESSIE BROWN

This charming white rose created quite a sensation upon its introduction, impressing every one with its extraordinary size and exquisite beauty. It has a hardy constitution and grows very rapidly. The large flowers are wondrously beautiful, composed of immense shell like petals, which are pure white, softly suffused pink. The buds are borne on strong, erect stems, freely and continuously, each one unfolding into magnificent flowers.

LA FRANCE

Deservedly given the title "Queen of the Roses." From all quarters of the globe come reports of the wonderful masses of bloom produced by this variety from early June until frost. It is a robust healthy grower, quickly forming a shapely handsome bush the first season planted. No variety can surpass it in delicate coloring, silvery rose with pink satiny sheen over all the petals. The buds are elegant, large and pointed, possessing the most delicious fragrance and are only equalled in beauty by the open flower.

CRIMSON RAMBLER

The most beautiful crimson climbing rose ever cultivated and a strong, rapid grower, quickly throwing up canes of great length and sturdiness, which are covered with beautiful peculiar shining foliage. The flowers are produced in immense clusters of from thirty to fifty blossoms in each cluster, the color of which is a vivid bright crimson. This rose is valuable for decorative hedges, arches and screens for porches or unsightly places around the home.

HOW TO GET THESE ROSES FREE

Send us only \$1.00 for one year's subscription to Kansas Farmer, new or renewal, and we will deliver to you absolutely FREE this entire collection of six hardy everblooming rose bushes. If your subscription is paid in advance secure the subscription of a friend or neighbor and send it to us with \$1.00 and we will send you the rose bushes and also send the party whose subscription you secure the entire collection. These rose bushes will be sent you at the proper time for planting in your territory.

Address all orders

**Subscription Department, Kansas Farmer
TOPEKA, KANSAS**

KANSAS FARMER

EDITORIAL

AGRICULTURAL KNOWLEDGE.

Vital agricultural questions are now pressing for solution as never before. The country becomes settled up there is need for more careful tillage and better methods. The old methods of the range would not do on the farm. As the population increases there is a greater demand upon the food supply and more intensive methods must be pursued.

Alfalfa is a very prominent and valuable crop in Kansas and yet no one knows whether it is an enricher of the soil or merely a stimulant. Humus is a most important element in the soil and yet no one knows its real function. Manure is most important in all farm operations and yet the doctors disagree as to whether it is the essence of manure in the soil or the decaying of manure that stimulates plant growth.

There are many other things about the business of farming which we do not know but which would be of value to us if we did. We cannot learn all these things at once and most of us will never learn them at all. If we depend for our information upon the experience of others we are handicapped because those others do not work or think alike.

Skilled, scientific investigation is needed to solve our problems and long periods of time in which to do the work. The wheat growing and other experiments at Rothamstead, England, have been conducted for more than a half century and are not even approaching completion. The Kansas Agricultural College has planned a series of experiments which will cover a period of 30 years in the expectation that some of these knotty problems may be solved.

Land will be devoted to the single crop system, as wheat after wheat, and the effect upon the fertility of the soil observed. Other land will be devoted exclusively to the growing of legumes as alfalfa, cow-peas, soy beans, etc., and results noted. Crops will be rotated and results compared with the other two. Green manure crops will be raised and these compared with others produced by the aid of barnyard manure and commercial fertilizers.

The objects sought are beyond the reach of the individual farmer, but when reached, will be of untold value to him, because they will enable him to know, not to guess.

Moving time is here and it holds each of weal or woe for those who must change homes. Some move from necessity, some from mere wanderlust, others to better their condition, but all who move at all are deserving of more or less sympathy. Scenes are exchanged for new, old friends left behind, old habits of life abandoned and a readjustment is necessary. The wise man is he who does not attempt to change his home and business at the same time. Too often this is done and too frequently disastrous results. The man of middle age who has spent his active younger days upon the farm and thinks the time has come for him to retire will too often be tempted by the price offered for his farm and move to town. When he does this he is himself compelled to form new habits of life among people with whom he has little in common. He finds that the big price he got for his farm dribbles through his fingers at an alarming rate; that his taxes are one or four times higher than in the country and, worst of all, the hardest work he ever tried to do is doing nothing.

Nature inclines toward perfection and she can rarely accomplish it without the aid of man. Nature produces a razor back hog but with man's help she gives us the Berkshire or the Jersey. Nature produces the wild pony but with man we have the Percheron. Nature produces the horned range steer but with man gives us the Shorthorn or the Angus. Nature permits the hen to hatch brood but with the man made incubator we get better chicks and more of them. Nature seeds the land with much of waste and feeble plants. Man plants the same seeds and the earth responds with her bounty more plentiful and of better quality than she alone could grow.

With which is combined FARMER'S ADVOCATE, established 1877.
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PICTURES—Good photographs, drawings and plans are especially solicited. Senders' names should always be written on the back of each picture. KANSAS FARMER can not be held responsible for any picture submitted, except under special written agreement.

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

KANSAS FARMER COMPANY, TOPEKA, KANSAS.

FARM PROFITS GO TO INTEREST.

Prof. D. H. Otis of the University of Wisconsin but formerly of Kansas, has been compiling some facts and figures that are new and interesting as showing a phase of farm life too often overlooked.

In discussing "the farmer as a business manager," Professor Otis shows that where the farm acreage is too large for economical management or where the capital invested is too large the interest eats up the profits. Poor seed, inferior live stock, lack of proper fertilization of land and lack of judgment as to what crops to grow upon certain kinds of land are all sources of loss.

Concrete examples were shown of several farms which served to illustrate these statements better than could be done in any other way. They are as follows:

Acreage 143—Capital \$25,992; receipts \$11,047; expenses \$5,165; profit \$5,882. This farmer started on practically nothing.

Acreage 253—Capital \$54,365; receipts \$13,129; expenses \$8,270; profit \$4,859. The interest on the capital makes the profit less than that of the farmer with half the capital and only 143 acres of land.

Acreage 300—Capital \$27,658; receipts \$4,712; expenses \$4,504; profit \$208. Barely holds his own. No profits.

Acreage 160—Capital \$18,002; receipts \$3,053; expenses \$3,391; loss \$338. This farmer is paying \$338 a year for the privilege of working his farm.

Of these four farmers, one is getting rich, another is making a living, a third is "getting along," and the last is actually losing good money, and all his work goes for nothing.

If he had "kept books" this farmer would at least have known where he stood and if he had studied better methods he probably would not have been in his present embarrassing condition. In either case he needs to keep books.

In some localities land has doubled in value in the last decade. Where this is true the farmer must make his land produce just twice as much in order to realize the same profit. If he does not do this he is getting poorer instead of richer although his land is worth more.

The average city man works longer hours, gets less pay, enjoys fewer comforts and has a harder time in "laying by" something for old age than does the farmer. Is this true? At first thought you don't believe it, but listen. Does any one know many farmers who average eight hours of work per day throughout the year as the city man is compelled to do? Does any one know many city men who make as much money or live as well on the same amount of investment as does the farmer? Does any one know any city man who is able to retire from active business life at 50 years as do so very many farmers? Show a few of these facts to the boy and also show him that the greatest business prospects of the future are right on the home farm and, if your teaching has been good and he understands it, you will not be asking "why the boys leave the farm?" because they will not leave.

When the great newspapers of the country, those to which we look each day for information about current events and the facts of every day life, will deliberately and persistently assert that the high cost of living is due to the exorbitant prices charged by the farmers for their products it becomes trying on good nature. Consumers do pay high prices for farm products but they do not pay them to the farmer. The farmer only receives a little more than one-half of each dollar which the city man pays for his products. Up to about four years ago the farm crops of the country were sold at a very low margin of profit, if not at an actual loss, and even now the farmer only gets a fair return for the labor, money and brains invested and risks assumed. Ask of the middlemen where 47 cents out of every dollar you pay for farm products goes and then listen to his pockets jingle.

All of the Kansas prize winners at the National Corn Show were both subscribers to and advertisers in KANSAS FARMER.

Some men have an idea that the way to make the most of life is to make the most money. Not so, a man can be a dub and be rich.

Don't be in too much haste to change varieties of seed. Look to your methods first.

Enclosed find check to cover my bill. I am advertising in seven papers and KANSAS FARMER is bringing me as many inquiries as the other six combined. The people who answer my advertisement in KANSAS FARMER mean business and a high percentage of these inquiries are turned into sales.—J. F. Haynes, Pure Seed Corn, Grantville, Kan.

STATE GRANGE OFFICIAL ORGAN.

As before announced KANSAS FARMER has been made the official organ of the State Grange of Kansas. There is perhaps no party of men and women in the United States today that has exercised such a beneficial influence for the good of the nation as well as the rural communities, as has the Grange. While the Grange is largely a social organization and works for the good of humanity, its first interest is in the good of the individual member, and through him its larger work is accomplished.

Formerly Kansas was known as a state in which the Grange interest was large. The membership extended to nearly every county and their united efforts did much to solve the problem of the new agriculture which had to be built up on the Kansas prairies. Later, the interests in the Grange seemed to decline in a measure, but this was only temporary. Now it has revived and, especially since the meeting of the State Grange last winter, inquiries are coming from all over the state in regard to the organization of new granges.

It is a noticeable fact that wherever the Grange has existed for any considerable length of time the community has prospered. The social nature of the order serves to bring people together, and during their meetings they have opportunity to discuss the problems of the farm and the home. The experience of each is available to all, and the constant interchange of ideas is beneficial. Each member gives of what he has and yet loses nothing.

In a material way the Grange has greatly benefitted its members by co-operation in buying and selling and in the maintenance of Grange stores and other commercial ventures. Where there is a community of interest there is sure to be awakened intelligence and a consequent improvement in business and social conditions.

The Grange is the most powerful factor for the good of the agricultural community and KANSAS FARMER welcomes all its membership to its family of readers and invites others to come.

At the request of numerous county school superintendents the Agricultural College has made it possible to hold movable schools in cooking, sewing and elementary agriculture in connection with the county normal institutes this summer. As the education of the future will be along the lines of practical life the present demand for such instruction in the common schools of the country will continue to grow. It is but natural that the teacher should desire to qualify in anticipation of these demands and, while the college has no funds with which to carry on this work, it can be made available to the teachers by a small tax from each one. This instruction is given by trained experts and the securing it would be a good investment for the county commissioners.

The future wealth of this country and this state lies in the soil. Any industry, no matter how profitable temporarily, which tends to reduce the fertility of our soil, should not be encouraged. The raising of wheat, corn, flax or other grains should be pursued carefully. These rob the soil of that which makes human existence possible. Of all the many vocations of man, the dairy industry is the most productive of present and future prosperity if in the hands of the right man. One acre of grass pastured by a good dairy cow will produce from five to ten times the amount of human food that can be produced from the same acre when pastured by a good beef animal. The economical production of human food is one of the prime objects to be considered. Under present market conditions there are from four to six times the profit to be derived from the dairy cow than could be made from the beef animal.

When you think about buying a new machine or building a concrete feeding floor you have a wise thought, but be sure you have running water in the kitchen first.

GASOLINE TRACTOR ENGINES

Thirty Cents per Acre.

We bought a gasoline tractor engine in the spring of 1909. We have plowed somewhere near 1,000 acres with it and have threshed about 4,000 bushels of grain, with but little expense. The expert inspected our engine a few days ago and said the piston rings were in excellent shape for having done so much work and burning kerosene most of the time. We did our plowing for about 30 cents per acre. There is nothing like the gasoline iron horse.—Carter Brothers, Russell, Kan.

Good Investment.

I consider a gasoline tractor a good investment, in view of the fact that I already have a full threshing outfit and the farm work which I intend to do with it. I intend to plow 300 acres for wheat this fall, which I will be able to do without much help. I have had use for the engine every day, bad weather excepted, since the day we unloaded it. Have contracted for all the time I have this spring pulling hedge fence and road grading at a paying price. The cost of operating the engine is about one-third the cost in the old way, and all heavy hauling and harvesting can be done with it.—J. A. Doan, Paola, Kan.

Easy Managed.

For farm work the gasoline tractor is about as cheap a power as there is at the present time. We find we are able to plow as much land with our 22 horse-power engine as we could formerly do with 30 horses. The operating expenses run about as follows: Kerosene, 20 to 25 cents per acre; lubricating oil, 75 cents a day, or about 3 cents per acre. The repair bills are very small if the bearings are kept in proper adjustment and properly oiled. The gasoline tractor is easily managed, and a person with a fair head and an instruction book, or the assistance of an expert a few days, will have little difficulty in running the engine. Our tractor will do any kind of hauling on hard or loose ground, and any kind of belt work.—Jacob Balzer, Inman, Kan.

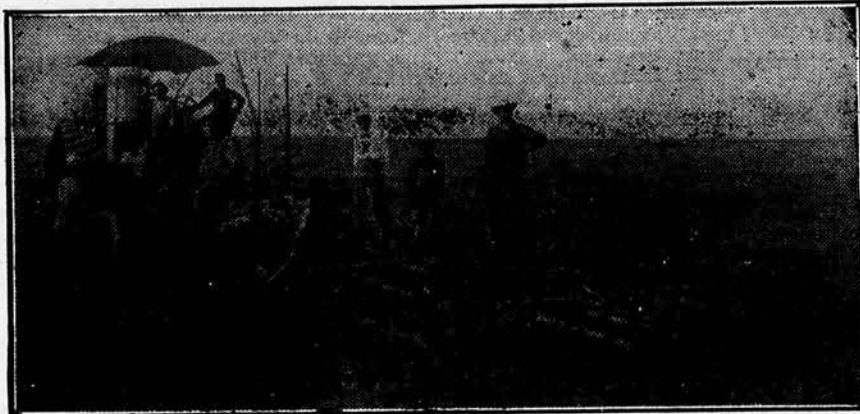
Biggest Money Saver.

I have a gasoline tractor which was purchased in 1908, and have plowed about 2,000 acres of sod and old ground, have put on \$30 worth of cog wheels, and consider the engine as good as new. We pull seven 14-inch sod plows or 12 disk plows in tough buffalo sod. We also have a separator with all attachments, which the engine handles with ease. These engines will burn either kerosene or gasoline, but seem to develop the most power from cheap kerosene, which costs us 5 cents a gallon, and we use about 3½ gallons to the acre in heavy plowing. In threshing one man tends the engine and separator and pitches wheat half the time. In plowing one man, with a 14-year-old boy to guide, runs the outfit. The gasoline tractor is the biggest money saver ever produced, and a man farming a half sec-

The importance of drainage and the high cost of clay tile have resulted in the invention of tile making machines with which the farmer can now make his own tile during his spare time and at a fraction of the cost of clay tile. Cement and gravel are the only materials used and the result is a tile that is far better for drainage and is more durable than clay which breaks and crumbles after a certain amount of exposure.

These machines are so simple that even a young boy can successfully operate them. They are arranged to be operated by hand or attached to a small gasoline engine. One of the most favored types consists of a machine into which is inserted a mould lined with a flexible inner casing. Sufficient cement mixture is put into the mould to make a tile, then a packer is turned up through this mixture, packing it firmly against the inner casing. The mould is then opened and the tile, still protected by the inner casing, is removed. This casing is left on the tile for about three hours, when the cement is hardened enough so that the casing may be removed without

Opinions of Our Readers About The Iron Horse On The Farm



tion or more can soon make the engine pay for itself.—G. W. Dale, Coldwater, Kan.

Cheaper Than Horses.

I purchased a tractor engine in November, 1905, and since that time I have used it a great deal. The work on which I have used my engine has been principally plowing, both old ground and sod, and double disking I have also threshed considerable, seeded some and used it a little on house moving. In plowing I usually pull a two-section disc plow with 9 discs to the section. In double disking I use four disk harrows with 16 blades each, hitched so that each laps half and cuts out the center ridge left by the one ahead. I have also pulled six and seven mold board plows, cutting 14 inches each. The most of my work, aside from sod breaking, has been done with one man handling the rig. While this is practical it is not the most economical way. An extra man will save much more than the amount of his wages in increased working time. I find the gasoline tractor practical and much cheaper than doing the work with horses. In plowing old ground it takes from two to four gallons of kerosene per acre, depending on kind and condition of ground and depth of plowing. Double disking will require from one and one-quarter to two gallons per acre. For fuel I usually use low grade kerosene, using gasoline to start with and until the engine is warmed up. Any ordinary kerosene will develop more power than gasoline and at the same time cost much less per gallon.—M. B. Blackman, Hoxie, Kan.

Pulls Anything.

I bought a gasoline tractor engine in 1906 and have used it ever since for plowing, averaging 25 acres per day. I can do anything that a steam outfit will do—threshing, moving houses, grading roads, etc. I have pulled a string of 11 cars, four of which were loaded with wheat. I like the tractor and it has made me money.—A. E. Achenbach, Hardtner, Kan.

\$2,270 in Forty Days.

I have been a farmer for 25 years and have lived at the same place during this whole time. I began farming on rather a small scale. In January, 1886, I bought an 80-acre farm in Marion county, which was but little cultivated, for \$1,500.50. After buying some necessary implements I had a debt of \$1,200. Today we own three quarter sections of land which we work with 10 horses. I also own a tractor engine, threshing machine and an engine plow. It was in the year 1909 when so many horses died from the effects of the heat, and I myself lost a fine horse, that my oldest son called my attention to getting an engine and running our machinery with engines rather than with horse power. After discussing and thinking the matter over for a time we decided to order a 20 horse-power gasoline tractor engine and a 30-inch cylinder threshing machine. These we received in due time. At the unloading of this machinery people stood about us looking on rather doubtfully and smiling that such a small outfit as this was should do the work we had intended for it. Even we ourselves were in doubt as to the suitability of the machines. We found that the engine went all right while moving, but when it was put to working the separator it could not transfer enough power to keep it going. We tried to get a larger engine, but the company could not supply it, so our engine had to rest, which more than pleased the other threshers. They called us with our engine, "The men with the coffee grinder."

At this time we heard that gas engines were being used with satisfactory results in Harvey county, so my son went there to see how they were managed there and with what success. He found that they were using a 45 horse-power tractor for threshing and plowing and with good success. This gave us new courage. I decided to go to Wichita and personally order an engine suitable for our work. Upon my arrival there I found that so many orders had come in before me that I could not depend on getting mine

filled in less than four or five weeks. Of course, by this time most of the season's work would be over, but I ordered the engine and left for home again. The engine arrived here September 10, 1909. By this time there was much talk spread by the other threshermen who ran steam engines, that we had a hard time getting work for our machine. We moved our machine home that night and the morning began work and kept at it without any trouble whatever. The fall we threshed 21 days, and during this time succeeded in putting out 1,600 bushels of wheat and 6,483 bushels of oats. That makes an average of about 1,042 bushels a day for the "coffee grinder."

It was too late in the season to do any plowing with the engine this fall, but next spring plowed 40 acres for fallowing. The expenses were about 45 cents an acre for kerosene and oil, and it took two men to do the work.

After harvesting and stacking we threshed shocks for our neighbors then plowed 80 acres, and after that began threshing again. The wheat being scarce in this vicinity that year about the only thing we threshed was oats. We worked 40 days and during this time we put out 74,000 bushels. We succeeded in doing quicker work than a number of the steam threshing machines with 34-inch cylinders the owners of which have very little to say now. In fact, they know they are beaten and the "coffee grinder" seems to have disappeared.

Some of the advantages of a gasoline tractor engine are that we have no horses with our engine and no need to haul water, which decreases the expense quite a little. Another that it is in full working power as soon as the lever is turned on. It is not necessary for us to get up early in the morning to raise steam. In going up or down a hill our engine need not stop to gain power. It keeps on going as soon as it is started, no matter whether up hill or down hill.

We have also graded roads with our engine to the perfect satisfaction of those concerned. Following are the amounts of our income and expenses during last fall, 1909:

Income	\$2,270.00
Wages	\$315.35
Gasoline, repairs, oil	350.68
Total expenses	\$666.03

Profit in 40 days..... \$1,603.97

I, for my part, know that the tractor engine gives good satisfaction in work, and that an engine like it will be called the modern farm horse of the future. I wish to add here that we tried to induce the company whom we bought the first engine to let us return the engine or even let us have other implements for the full price of it, since we had no use for the engine; but they would not accede to our wishes. I had made the mistake of immediately handing over half the price of the engine in cash, and could do nothing. We feel that the company has treated us shamefully. G. D. Ewert, Hillsboro, Kan.

MAKING DRAIN TILE AT HOME

injury to the tile and used again. This casing is said to protect the tile from too rapid drying and insures a perfect

tile being made every time if the cement mixture is made of the right consistency. These casings are not ex-



pensive and enough are provided with the machine so that the operator can work continuously. The makers of this machine claim for it a capacity of about 600 tile per day when operated by hand and 1,200 per day when operated by power, the concrete being prepared for the operator in each case.

A mixture of one part cement to five parts sand is recommended for tile up to three inches in diameter. This size requiring a one to four inch mixture. One thousand three inch tiles are said to require about two barrels of cement and 1½ cubic yards of sand. From the cost of these materials his locality one can easily compute the cost of making tile. The cost of a good tile making machine complete with casings, is \$35 to \$60, and the amount can easily be saved in making tile for the drainage of even a small piece of ground. A nice source of income can also be derived from the sale of tile in the owner's community as he can quote very favorable prices and still make a handsome profit on rainy days when regular farm work is impossible.

The Alfalfa Club Talks Drainage

How to Secure Benefits of the Most Important Discovery of Agriculture

For the first time in its four years' history, the Shawnee Alfalfa Club discussed a subject at its regular February monthly meeting which was heretofore considered directly connected with the cultivation, harvesting or uses of alfalfa. This subject was tile drainage, and was presented by Prof. W. C. Hoard of the engineering department of the State University.

Beginning his address he stated that while he had been raised on a farm and had always been a close student of farm methods he had never actually cultivated land which had been tile drained. He therefore presented his discussion to the mechanical side of the question more particularly. It is generally understood that tiling is beneficial to any land. This is a question at which there appears to be no disagreement. But it is not understood, in Kansas at least, that tiling is beneficial to other kinds of land as

there are very many ways in which tiling of land will make good soil of bad and better soil out of good. One of these was illustrated by facts set forth in a series of observations gleaned from an Indiana tract where the effect of tile drainage upon the health of the inhabitants had been studied. According to a report from which Professor Hoard read, this series of observations covered a period of ten years, half of which was made before tiling was done, and the other afterwards. Among the facts noted were that the average crop of wheat during the five years prior to drainage of the land was 9½ bushels per acre, and during the second half, after the tile had been put in operation, it was 19½ bushels per acre, or a clean gain of 10 bushels per acre each year. The average crop of corn for the first period was 31½ bushels per acre and for the second period 74 bushels per acre. In regard to the health of the people who lived in the tile drained farms and in the immediate vicinity, it was stated that there had been 1,480 cases of malarial cases during the first period, and 490 cases during the second period.

Turning to the technical side of the subject, Professor Hoard remarked that the land is benefited by having surface water pass through it to the subsoil rather than run off the surface. If it passes through the soil moisture is retained for a greater length of time, elements of fertility

are carried down to the roots of the plants and the soil remains in a workable condition for a greater period; while on land that is subject to wash the surface water runs off immediately, the subsoil is never wet, and the surface cannot draw upon reserves of moisture through capillary attraction during the growing season. Creeks and rivers are flooded and much of the surface soil, together with plant food, is washed away and wasted.

The question of sub-drainage has much to do with the quality of the soil. Most soils are naturally drained more or less through the subsoil, but the amount of this drainage varies with the quality. In some of the best known soils that are naturally rich and would produce heavily, the crop products amount to little because of the soil saturation which is only removed by evaporation, and which leaves a hard baked surface behind.

In some of the flat lands of Kansas, like the Arkansas Valley, rainwater quickly disappears by being absorbed by the subsoil and this constitutes a reservoir which may be drawn upon by the crops in the dry season. In other river valleys of the state the surface soil is fine grained and the subsoil more so, and the water must either flow off at once or dissipate itself by evaporation.

The object of drainage is to remove surplus water but not to dry out the soil. This is accomplished by tile drainage. All soils are composed of disintegrated rock. In sandy soils the particles are larger and in consequence the water goes through them more rapidly, yet they will not retain as much water as will finer soils. In clay soils the same elements are present, but the soil particles are much finer. Porosity of the soils depends upon the kind. A sandy loam is found to have 38 per cent of open air spaces, which mean that a given measure of soil, placed in a vessel, would contain 38 per cent of its bulk in water without overflowing. In wheat land the amount is 43 per cent. In gumbo it is 60 per cent, and in pipe clay 65 per cent. This has been a matter of surprise to many who have not investigated, but it is true that clay land will hold more water than will sandy land. So true is this that it may be stated as a general

proposition that the porosity of the soil will depend upon the amount of clay it contains. Water moves easily through sandy soil and gives the impression of great porosity, and yet clay land will hold more water than that which is sandy.

The quality and condition of the soil has much to do with any drainage problem that may arise. Formerly in the older states each farmer undertook to drain his own land as best he could. Now, community drainage is attracting more attention. It is found that by uniting their interests several farms may be drained out in one system and all receive the benefits of tile drainage at a less cost than would be necessary through the individual system. Almost any kind of a drainage system will produce results, but a carefully planned and well executed system uniformly produces good results.

In the early history of farm drainage it was thought necessary that the drain tile should be soft and porous so as to admit the water through the walls of the tile. This has been found to be unnecessary. It was also found that soft, porous tile does not last nearly so long as does that which is hard burned and which will give out a metallic ring when struck with a hammer. The water gets into the tile through the spaces at the joints and no porosity is necessary. Care must be had in laying tile so that there may be no dips or irregularities in the pipe line. It should have a general slope, although this slope need not be very pronounced in order to get good results. Water will flow down hill if it is given a chance and comparatively level land may be easily tiled with a small slope to the tiling. Of course, a good degree of fall is valuable where it can be obtained, as it is then sure to wash out any sediment and keep the tile clean and working to the full capacity. If irregularities occur in the laying of the tile, sediment is likely to collect, and this will reduce the capacity of the tile in a short time.

The size of the tiling has to be determined by the area to be drained and the conditions under which it is laid. Generally speaking a 4-inch tile will be a satisfactory size, especially for laterals, though the last few feet or few hundred feet, as the

case may be, of the main line of tiling should be large enough to accommodate the water received from all of the laterals when they are working to their full capacity. A 4-inch tile would give practically nearly double the capacity of a 3-inch tile, especially if there be irregularities in laying it.

The land should be leveled to determine which way the water will flow most readily, and the main line of tiling placed in the lowest part. The laterals or branch lines may be taken off at any point desirable, but in laying them they should be so placed that the last joint will have a decided dip of 3 or 4 inches downward into the main tile. This prevents the water in the main from backing up into the laterals and leaving a deposit of sediment and so obstructing the tile.

Strength in tiling is more important than porosity. It is not necessary to buy glazed tile like sewer pipe, but it is desirable always to buy hard burned tile. Cement tile is very effective when properly made. It has the necessary strength and lasting qualities, and, where the materials are easily accessible, can be manufactured on the farm where used and at a lower cost than would be necessary for clay tile, which has to be shipped some distance. There are certain tile making machines which enable the farmer to manufacture his own cement tile, and which are quite satisfactory, provided he knows how to handle cement. It is necessary that the proper mixture of sand and cement be made, that the mixture be thorough and well compressed in the machine, and also that the tile shall be allowed to season under cover and by being moistened from time to time for about a week or ten days before being laid.

Tile drainage is a matter of some engineering skill and if large areas are to be tiled a good surveyor or engineer should be chosen to make the levels. For ordinary farm work the farmer can make his own levels. These must be made so as to insure a sufficient fall and the tiling laid so that there will be no jogs to collect sediment.

It is not necessary, in ordinary soil, to cover the joints between the tiles, as the soil will compact itself about the tile and no sediment will wash in to interfere unless there is quicksand. In such a case the joints may be covered with broken sections of larger sized tile or even with sheets of metal, though heavy earth will generally answer every purpose.

TILE DRAINAGE ON THE FARM

Farm drainage has been described as the most valuable discovery in agriculture. Whether this would be credited or not is not so important as the fact that drainage is a most necessary factor in modern farm methods.

Yet, its value has not been appreciated to the full in the older sections of the country and is practically unknown in the newer sections. It is generally admitted that drainage of benefit swamp or marsh land, but it is not known that it will benefit almost any kind of land.

The purpose of tile drainage is twofold. It removes the surplus water, that drowns the plants and injures or kills them, and it increases the quantity of capillary water, or that which is available to plants and feeds them with

Drainage serves to draw the soil into the roots and thus gives a much greater amount of food from which to sustain the plants with-

out drainage feed at the lunch counter; with it they feed at a dining table.

Some forms of plant life can thrive without any appreciable aeration of the soil, but farm crops cannot do so. Drainage serves to aerate the soil and thus afford the plant an opportunity to do its best.

As it increases the porosity of the soil, drainage enables manure to act more rapidly and more beneficially. Manure has no value except as it becomes available to the plant roots. Plowing it under renders it available

to the depth of the furrow. Drainage carries plant food down as far as the roots grow.

One of the important features of progressive agriculture in Kansas is early maturity, and this may be partially accomplished by the planting of early varieties or by the luck of an early season, but neither are sure of results, though both lead directly towards them. By opening up the soil and allowing it to get warmed thoroughly drainage increases the length of the growing season from 10 days

to two weeks and at the right end. A crop that can be well started early in the season is much more certain of producing results, because it is out of the way of possible drouth.

Even in gumbo and the densest of clay soils drainage will soon produce a condition that will admit of well-nigh perfect cultivation, and that within a very short period after heavy rainfalls. On good farm land it is often necessary to delay plowing or cultivation because of too much moisture, and this at a time of year

such delays cost heavily. If it does not seem possible to wait and the plow is put to work, the soil is injured or ruined for the time being, because the wet ground bakes like bricks. Drainage prevents this and at the same time reduces the danger from drouth. Dr. Burkett states that "one of the proved facts that scientific investigation has shown to us is that a soil contains more moisture after drainage than before. The (Continued on page 6.)



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TILE DRAINAGE

Land drainage proves that the returns from a piece of land is not so much dependent upon the soil as upon the kind of management which that piece of land receives. Many a seemingly worthless piece of land has been made to produce a profit by tilling. Poor land should be tilled to make it good, good land should be tilled to make it better.

Every farmer looks upon each unimproved acre of his land as an item on his farm expense book. He has taxes to pay upon it, the same as on his most productive land. Why should he not want to make it all productive? Like any operation in which the management of the soil is concerned, there is a right way and a better way; there is only one best way, and that is to lay cement tile. This is not a work in its experimental stage, but as its real value is learned through experience, it is rapidly broadening out.

At one time the farmer laid a few tile in just the worst parts of his land, but now he has learned that drainage is beneficial to all his land. It is the means of making his farm pay. Now there is no question but that an excellent crop can be grown on a well tilled field in time of drouth. By cement tilling a certain degree of soil ventilation is brought about, and brings these dry lands to their highest state of productiveness.

Soil that has been drenched with water, dries by evaporation and becomes hard instead of being porous. When it is dried by drainage the soil is porous and permeable to dews and showers.

A cement tile machine will help you to improve both your wet and dry land. It means this much to you: It will enable you to drain your land; make your own tile; increase your farm in value; increase your wheat crop; increase your corn crop; put money in your pockets.

The advantages of tile drains are summarized by Prof. A. Marston, dean of the Iowa College of Engineering, as follows:

1. Tile drainage by making the soil firm, enables earlier cultivation in the spring. Low ground drained can be cultivated earlier than high ground not drained.
2. Careful observations have shown that the tile drainage makes the soil several degrees warmer in the spring. Scientific tests have shown this increased warmth to be of the utmost importance in promoting the germination of crops.
3. Tile drainage removes from the pores of the soil surplus and stagnant water, which would drown and destroy the roots of plants.
5. Tile drainage makes certain proper "breathing" of the soil, or free circulation of air in its pores, which

is essential to healthy plant life.

6. Tile drainage establishes in the soil the proper conditions required for the satisfactory carrying on of the chemical processes necessary to prepare the plant food for its use by vegetation.

7. Tile drainage fits the soil for the vigorous life and action of the soil bacteria which are essential to preserve and increase its fertility and promote the growth of crops.

8. Tile drainage increases the depth of soil which can be reached by the roots of plants and drawn upon for plant life.

9. Because in them the roots of plants can penetrate deeper, where they are protected from the heat and drouth and can reach the deep sealed moisture, tile drained soils attain drouth better than undrained soils.

10. By putting the top three feet of soil into porous condition, tile drainage enables soil to absorb rain water instead of charging it over the surface and helps to prevent water wash and consequent loss of fertility.

11. By causing this porous condition, tile drainage makes the upper three or four feet of soil into an enormous reservoir to catch the rain water and discharges it slowly into the streams. Thus tile drainage prevents floods instead of causing them.

12. Tile drainage does away with irregular shaped fields, cut up by sloughs and so cheapens cultivation.

All this goes to show that drainage is the most profitable investment a farmer can make. This is where he makes a profit over all and still has his capital. He is insured a certain of crops.

The Indiana Bureau of Statistics made an investigation of the influence of tile drainage on crops in a single township, taking a period of five years before drainage and five years after drainage. They consulted the farmers living in this township and found that the average wheat crop before drainage was 9 bushels per acre. The same land after drainage for five consecutive years produced an average of 10 1/4 bushels per acre. The average yield of corn in the first five years was 31 1/4 bushels per acre. Five years after drainage the average yield was 74 1/4 bushels per acre.

Fruit growers have found that the decaying of trees can be prevented by drainage. Dr. W. I. Chamberlain of Ohio, says of his own orchard: "I have now nearly finished picking and marketing the Red Astrachans on row, which, like all other varieties runs across both plots. The yield is fully 50 per cent greater on the tiled part, and in size, beauty and evenness of shape, there is more than that amount in favor of the tiled."

Tile Drainage on the Farm

Continued From Page Five

explanation of this seeming inconsistency lies in the fact that the physical condition of undrained soil is being improved; the soil made loose and mellow; its grains more open and the interspaces made capable of holding more capillary water."

Stagnant water is repugnant to farm crops. They cannot use it. They will not stand wet feet. The moisture which they use is that which surrounds each minute particle of soil and which is freely replaced by capillary action when needed. A soil condition such is brought about by tile drainage indefinitely removes the chance for serious drouth because the roots go into the ground earlier in the season and reach deeper for their sustenance.

Drainage provides an entrance into and an exit from the soil for all rainfall, and washing of the soil is thus prevented; the crop is increased in both quantity and quality; winter heaving of crops is prevented and practically all danger from such diseases as rust in wheat and rot in potatoes is removed.

It must not be understood that all soils need drainage. Many of our best farm lands have a porous subsoil and are self draining. There are very

many places in Kansas where the expenditure of money for the building of a system of tile drainage would be repaid many fold. This is particularly true of many of our creek and smaller river bottoms where the soil is composed of gumbo or something nearly akin to it.

Take the wonderfully rich river valleys of the Cottonwood or the Blue and it would be difficult to find a better soil in a better climate, yet these valleys contain thousands of acres which have never brought their owners proper returns because the texture of the soil does not admit of proper farming. With a judicious expenditure for tile drainage, these valleys could easily be made to double their present productive capacity.

Kansas is advancing in farm ideas and methods beyond most of other states, but she has not accepted the idea of farm drainage to its full value. Corn clubs, farmers' institutes, experiment stations, agricultural colleges and farm papers are doing an effective work in their efforts to produce larger and better crops and yet, until recently, comparatively little attention has been paid to drainage, which is one of the great possibilities of the new agriculture.

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THE FARM



A reader in western Nebraska states that he has had better success with June oats than any other kind. He states that the Kherson suffers from early drouths and from the hoppers while the June oats are ripe in the latter part of the month for which they are named. This is in what is known as the dry land district or semi-arid region.

Oats and Canada Peas.

Would oats and peas sowed soon on ground plowed eight or nine inches, followed by alfalfa in August be good farming or an experiment? If advisable what kind of oats and peas would be preferable? I have sowed Canada field peas in a small way and with very good success. Also advise amount of oats and peas to sow.—C. H. Titus, Dwight, Kan.

Oats and Canada peas sown together produce an abundance of palatable and nourishing forage when properly planted in early spring. I doubt the advisability, though, of seeding same on land newly plowed to a depth of 8 or 9 inches. It would be all right to do this on fall plowed land, land that had had time to settle into a firm seed-bed before planting. I would advise shallow plowing and thorough packing of the soil into a firm seed-bed if the plowing is to be done just before seeding in the spring.

You will find oats and Canada peas an excellent crop to precede the planting of alfalfa, as you can harvest the oats and peas in time to prepare a good seed-bed for alfalfa that fall. I can not say just what variety of Canada peas would be the best to plant. You probably could get this information from some of the seed houses, though I doubt if any particular variety has succeeded better than another in this state up to date. I would recommend planting at the following rate—oats 1½ bushels and peas ¾ bushel to the acre. You can drill them in with an ordinary grain drill and they can be planted as early as you would plant oats alone.—W. M. Jardine, Professor of Agronomy.

Dry Land Alfalfa.

If a farmer on the dry plains has a well that will furnish just enough water for fifty head of stock, it would be folly for him to try to keep sixty or seventy-five head on the same supply of water and it is equally ridiculous for him to attempt to crowd plants in soil where the moisture is limited. Some plants may develop with less moisture than others, but alfalfa is not one of them. On the other hand it is conceded by all western farmers that an abundance of moisture is the key to success in growing alfalfa for hay, writes P. K. Blinn, in Field and Farm. When it is well established, alfalfa will endure long drouths and still revive when water is applied. To that extent, it is adapted to dry farming and its deep rooting tendency may enable the crop to grow without irrigation if the roots can penetrate to moist soil. There are many localities on the plains where the run-off from heavy showers could be collected and diverted by ditches upon soil suited to alfalfa. Often in a draw, where moisture from the surrounding prairie is inclined to center, good encouragement for seeding to alfalfa is offered. The number of plants to the acre that can be maintained in the dry farming districts has not been determined, but on a small tract at Rocky Ford without irrigation for eleven previous months I produced at the rate of two and three-fifths tons the acre the first cutting, and it made a second growth equally as good that was left for seed. The plot had been seeded the previous year to Turkestan alfalfa and thinned to single plants twenty inches apart each way. It received one irrigation and was thoroughly cultivated that year. The growth the following year was made on the moisture that was stored and conserved in the soil, but such phenomenal

yields can hardly be expected without irrigation. In favorite spots, however, alfalfa can certainly be grown if established and properly managed.

The growing of alfalfa seed offers great opportunities to the farmer on the dry lands, because the fact has been well demonstrated that alfalfa yields seed best when the plant makes a slow, dwarfed growth, when it lacks for moisture, but has enough set and fill the seed. When grown under dry conditions the seed has more vigor and vitality than that produced with an excess of moisture, and it is usually free from dodder and other noxious weeds, if the field has had any cultural care. There is a demand for dry land alfalfa seed that far exceeds the supply. In establishing alfalfa for seed production under dry conditions it is recommended to sow in rows eighteen or twenty inches apart with two to three pounds of good seed to the acre. A thin, firm stand is absolutely necessary even to thinning, as in best cultivation but the stand can usually be regulated by the amount of seed sown.

It has been found that plants twenty inches apart will support each other and not lodge or lay on the ground, as in the thicker or thinner stands. With a good stooling variety like the Grimm or the Turkestan plants six to twelve inches apart in the row are thick enough.

If all the seed would germinate, one pound the acre would be ample, but it is difficult to sow a small quantity uniformly in the row and for seed production, it might pay to space as thin the plants. The row system is essential, as it permits inter-cultivation to eradicate weeds and to conserve the moisture and also allows deep cultivation to absorb winter storms allowing an opportunity to furrow the rows and to direct or divert surface water that may or may not be needed. It is the only system that will allow the tillage so essential to all dry farming. The four-row cultivator, with its weeding knife and other attachments, is an ideal implement for cultivating the crop. A four-row drill adapted to sowing alfalfa seed is needed to complete the equipment, but the ordinary beet drill with the addition of an alfalfa grass seeder attachment, can be modified to suit the work. The seed should be sown shallow, not over an inch deep, and good results have been secured with the common grass den drill by marking out the ground with the rows gauged in sets of four to correspond to the four-row cultivator.

Where there is an opportunity to use irrigation or flood water, the alfalfa should be ditched in every other row and the furrows logged out with a set made of short logs, eight to ten inches in diameter, and from three to four feet long, spaced to fit two furrows so that the water may be run through as quickly as possible, for the alfalfa crop for seed will need as little water as can be applied. A short rush of water after a sudden shower can be delivered over considerable ground if the field is properly ditched. The great secret in this country is to store all moisture from every source.

Is there any hope of the wheat in western Kansas, Oklahoma and the Panhandle of Texas which has been sown since last fall and has not sprouted until the last week or so making any crop? Is it true that fall and winter wheat requires freezing to make it stool? Some are claiming that winter wheat will not mature unless it freezes. I have seen acres sown in this western country and am anxious to know what the experience of others has been under such conditions.—W. E. Wright, Oklahoma.

I think it is true that winter wheat requires freezing after it has sprouted in order that it may produce heads and mature seed. Wheat will sprout late in the winter or early

spring is apt not to stool very early but may, if freezing occurs before the sprouting, produce a crop of wheat, though we can hardly expect a yield from such wheat. I have seen wheat at the Experiment Station at Manhattan in February and produced a fair crop of wheat, about 40 bushels per acre. However, the year our fall sown wheat produced nearly 40 bushels per acre. I find it is the experience of some western Kansas farmers that wheat sprout late in the winter or early in the spring and make a fair crop. A farmer can do nothing more than wait, and if favorable conditions prevail, the wheat may make a fair start. It may be left for a crop, but if unfavorable conditions prevail and it makes no showing when it is time to seed spring grains, I would advise seeding many of the wheat fields with oats, barley or spring wheat. It is often preferable to leave the land alone and plant to corn or Kafir later in the season, provided it does not promise to make a crop.—A. M. TenEyck.

I read with a great deal of interest the article in KANSAS FARMER on the culture in western Kansas. I am not far from the Kansas line and feel that our conditions are about the same as yours. It is with some hesitancy that I am trying to farm the dry farming method. I have neighbors who advise me not to plow ground for corn. They advise double listing and listing. But I am a little afraid that is not the best method. I would be much pleased for your opinion on the subject. I would like your opinion as to which would be the most practical crop for the locality—oats, speltz or barley—your method growing the same.—E. Hawks, Cheyenne Wells, Colo.

I am inclined to think that your neighbors are correct and that double listing early in the spring previous to planting is the better method for preparing the seed bed for planting corn, in eastern Colorado, than the method which you propose of plowing before listing. My part I prefer the double listing method, listing once early in the spring and splitting the ridges at listing time. Or it may be advisable to disk once or twice after the plowing, provided heavy rains fall and ground becomes firm and crusted. The experiments carried on at the Experiment Station at Manhattan, have favored double listing; early plowing as compared with early disking in preparing the seed bed for corn.

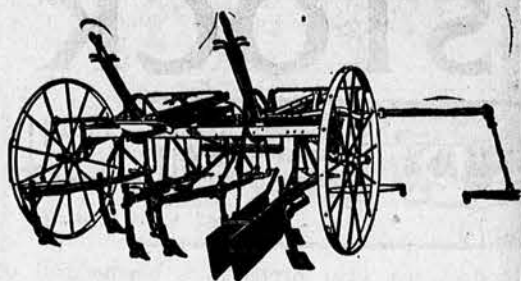
At the Hays Station we have not derived much benefit from the early listing of soil in the spring. The experiments were carried out on corn land, namely land that had been in corn the year before.

It may often be advisable to plow the land in the fall and list to corn in the spring, rather than not to plow at all. The double listing may be practiced instead of plowing, the first listing being done some time after listing or during the early fall.

Early maturing barley is preferable to oats for sowing in your locality. Such a variety as Stavropole or common six row at Hays Station, should give good results in eastern Colorado. Can also recommend the Burt oats and 60-day oats.—A. M. TenEyck.

I want to sow 25 acres of clover this spring. My plan was to plow the land and drill two bushels of oats per acre, then broadcast the clover right after the drill. Do you think that would be all right, or what do you advise? We plowed most of the ground in January, plowing 7 inches deep. I intend to harrow it well and get a good fine seed bed before I sow it. This is on second hand land, 10 miles southeast of Emporia, in Lyon county. Some of the hot sun will kill the clover if the oats are cut.—E. Barnard, Emporia, Kan.

It is a common practice to sow with a nurse crop of oats or small grain in the eastern part of the state. It would have been best to have plowed the land last fall. You hardly be able to produce a good seed bed by spring plowing, unless take great care in pulverizing and packing the soil. Or you may



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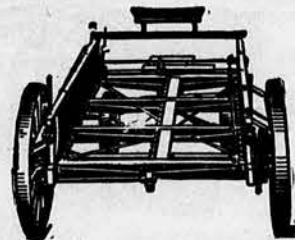
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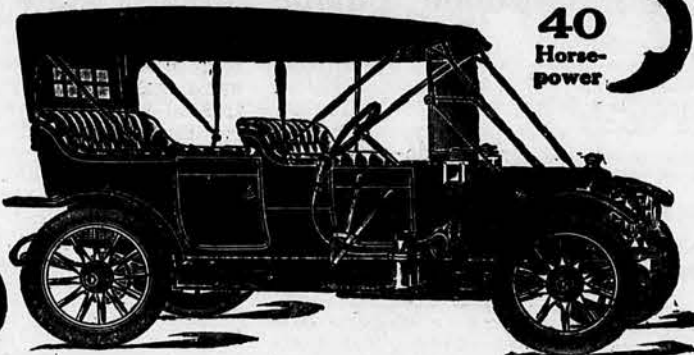
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secure a better seed bed by disking and harrowing clean corn stubble land. Would not advise to plow too deep if you plow this spring, 4 or 5 inches will be better than 7 inches. If the deep plowing was necessary it should have been done last fall or a year ago. If you plow deep this spring the difficulty will be to get the seed bed in a well pulverized, well settled condition for the storing of plant food and moisture so as to start the young grasses.

I would advise to sow the oats a little thinner than you suggested, sow about a bushel and a half per acre; also, if the season turns dry it may be advisable to cut the oats crop for hay.—A. M. TenEyck.

Put yourself on a bread and water diet for a time and then see if you cannot sympathize with your farm animals who have to do their work on one kind of ration all their lives. You like a variety of food and you do better work when you have it. So do they.

It seems to be a well established fact that English sparrows carry many kinds of animal disease germs as well as parasites of various kinds. It is known that they will disseminate the parasite known as blackhead among turkeys and the germs of hog cholera. It is not known that the sparrows are of any value. Therefore, swat the sparrows.

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The hog business of the future depends upon how the breeding stock is selected now. If there is a shortage of such proportions as the market reporters would have us believe, it will require a long time to "catch up." This can be done best and most quickly by starting right with pure bred animals.

If you keep pigs or sheep how would this "stunt" suit you? When you are laying by the corn go through the field with a fiddle seeder and sow dwarf Essex rape. Sow about two quarts to the acre and put this in about every eighth row of corn. When the corn is mature turn in the pigs or put the corn in the silo and then turn in the pigs or sheep.

Your market is just as important to success as is your feeding and breeding operations. You may raise the best of live stock and yet if you have no market for it your work counts for nothing. This market must be created by letting people know that you are on earth and are breeding what they want. If you don't advertise you cannot sell.

The hired help problem is always with us and compels the study of economical methods. You are in partnership with your boy and can depend upon him to stay by you, but the help is sometimes less reliable. Your boy partner can drive a manure spreader as well as a hired man, and after the silo is filled the work of caring for the stock during the winter can be done by two of you. Silos save and make money.

What would you think of feeding the carcasses of cholera hogs to the well ones in your herd? What quicker way could be devised for a spread of the cholera. This, however, is just what a Shawnee county farmer did last fall when his pigs were dying with cholera. It was done as a test of the serum treatment and was perfectly successful. A little more than one-half the herd had been treated with serum and to them were fed the others which had not been treated and which were dying as only cholera pigs can die. The dead pigs were chopped up, boiled and fed to the treated pigs and the owner states that he never had a bunch of pigs do so well. The meat ration balanced up their feed and, being immune from cholera, they soon "made hogs of themselves."

If all that is claimed for the silo is true, then it is one of the most important and valuable buildings on the farm. If only one-half of it is true, it is well worth investigating. Now is the time to investigate, before the spring work begins. Study the silo question from all points of view and see if the actual saving of nearly one-half the corn crop that you have worked to produce is not worth while. See if the convenience in feeding this corn crop which is afforded by the silo is not worth while. See if the giving of a succulent ration which is greedily eaten by the stock during the dry spells of summer and the winter season does not pay. Note how the milk flow is kept up by the cows and how easy it is to fatten a lot of baby beef with silage and alfalfa. Then note the economy of it all and see if you don't need a silo.

Thumps in Pigs.

Please send me the receipt to stop thumps in little pigs. I think I saw it once in KANSAS FARMER, but I cannot find it now.—Jim McKie, Densmore, Kan.

It might pay to keep a scrap book and paste into it such items of information as appear in the papers from time to time and are worthy of preservation. We give the prescription again: Give, on an empty stomach, from 2 teaspoonsful to 2 tablespoonsful of castor oil to each and from

ten (10) drops to a teaspoonful of turpentine to each in with the castor oil in a little milk, let them drink it so each will get his share. Then follow up with elixir calisaya barb iron and strychnine eight (8) ounces, Fowler's solution four (4) ounces, mix and give them one-fourth (1/4) of a teaspoonful to 1 teaspoonful twice a day in feed according to age and size of the pigs. Give them plenty of good milk, a little at a time, a good dry bed with not too many together, and turn out to exercise in a good dry place.

Paralysis of Throat.

I have a cow that can not drink water. She puts her head down in the water to her eyes and then raises her head and laps the water like a dog. She has been in this condition for about two months. She eats well but is a little thin.—Geo. Trenary, Newkirk, Okla.

Ans.—Have her tested for tuberculosis, and if she does not react give her the following mixture: Nuxvomica fluid extract, 6 ounces; Fowler's solution, 1 pint; Belladonna fluid extract, 2 ounces. Mix, and give a tablespoonful three times a day in a half teacup of water.

Rape for Hog Pasture.

I am writing you to get information about rape for use as hog pasture. I am on a rented place and have about two acres that I want to sow for hog pasture this spring. I want to sow something that affords early pasture; something that the hogs can get the good of by the first of August, as I want to plow it up then and sow the land to either rye or wheat for fall and winter pasture. How early can rape be sown and how soon can it be pastured? Do you consider it a good pasture? How would oats or sorghum be, and how soon could they be pastured? If you know of something that would be better than either of the three mentioned, please inform me, and please state how early it may be sown, and how soon it should be pastured.—Warren A. Ratcliff, Scottsville, Kan.

On a rented place rape is perhaps the best thing you can use for your purpose, as it makes a very quick and very heavy growth. The pasture is extremely valuable for hogs, though more good is gotten from rape if the hogs also have access to grass or clover pasture as well. Rape belongs to the turnip family and has a very high succulence. Dwarf Essex is the best variety, as the bird seed rape is practically worthless in this country. Rape may be harvested for soiling live stock but it is vastly better to let the stock do the harvesting. It may be sown from early in the spring until August or even later. Would sow it as soon as the ground is in condition in the spring and the crop will be ready for the hogs in from eight to twelve weeks. Some hog growers, especially those who have the white breeds, object to rape because they say that it produces a diseased condition of the skin if the hogs are allowed to pasture in it while the rape is wet with dew or rain. This is easily avoided by keeping the animals out of the pasture in the early morning and during wet weather. The botanical family to which rape belongs contains a large amount of sulphur and this makes it especially valuable for sheep and hog pasture. Rape alone will just about support the animal and any grain fed will be clean gain in weight. Hogs pastured on rape will make rapid gains if they have a grain ration or can run on alfalfa at the same time.

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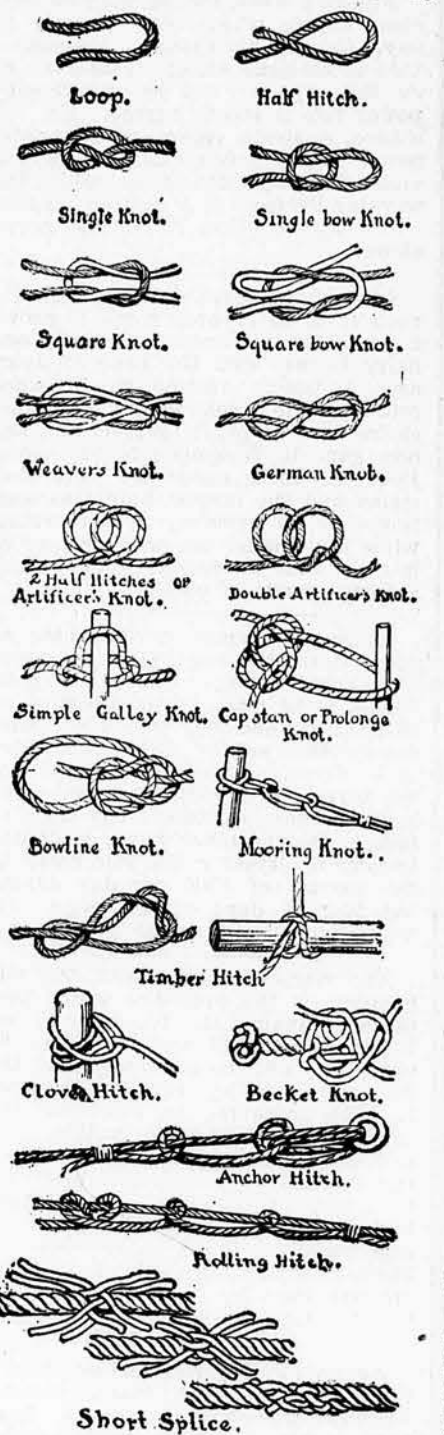
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There is still time and leisure to do a little painting on the farm implements and vehicles. Weather wastes worse than wear.

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One of the most aggravating things in life is a rope, particularly if it be a new one, or if it be wet. Most people tie ropes either in a slip knot or in a "hard knot." If the rope is wet at the time or if it gets wet while tied, it makes trouble. If it is a new rope it will not hold.

Herewith is a drawing showing how to tie different knots. These are the knots that are tied by sailors and are also used by the United States army. They represent the experience of hundreds of years and there is nothing



better known. A little study of this drawing will show how to tie these knots, and when once learned other kinds will not be used. The bow line knot is especially valuable on the farm. No matter how strong tension or how wet the rope becomes, it is always easily loosened, and instantly removed. A little practice on these knots will be worth money to the farmer.

The Agricultural College is announcing summer courses in agriculture for school teachers. The work of instruction in this line will be divided into two courses, the first of which will begin on March 28 and end June 14, while the second will begin June 15 and end July 27. Perhaps one-half the country teachers will close their schools before the opening of the first of these special courses for teachers and this arrangement of terms will serve to accommodate all who are interested.



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MADE. Lowest fuel cost; lowest up-keep cost; easiest on the engine; with better results. Lowest cost because it occupies less space, is less cumbersome, with less vibration, therefore adapting it for either stationary, portable or traction use. **IT IS THE POWER CONTRACTOR'S FAVORITE ENGINE.** No engine made has so wide a range of use. **YOU WILL MAKE A MISTAKE IF YOU DO NOT WRITE US FOR INFORMATION.** State your requirements and get our advice. **THE TEMPLE PUMP CO.,** Manufacturers, 499 West 15th St., Chicago, U. S. A. This is our 58th year.

What Makes a Cream Separator Good or Bad?

It takes something besides cast iron, red paint and hot air to make a separator that will skim milk clean twice a day 365 days in the year for 15 or 20 years.

If some of the farmers who are thinking of buying a cream separator this season, and have been half persuaded by extravagant advertising to "save one-third the cost" by buying a machine of the "Just-as-good-as-the-DE LAVAL" or the "mail order" kind, could only listen to the experience of a few of the thousands of the users of such machines who have traded them in for DE LAVALS during the past year, they would be forcibly reminded of the old adage which runs "Save at the spout and waste at the bung-hole."



Any competent separator mechanic with a knowledge of materials and high-class separator construction will tell you that the marvel is, not that "mail order" machines are sold so cheaply, but that they succeed in getting the price they do.

High-grade separators cannot be manufactured like harvesters, plows and other farm machinery. A properly built separator is almost as delicate and exacting in its construction and measurements as a watch.

DE LAVAL machines are constructed in the best equipped cream separator factory in the world by skilled workmen. The very highest grade of material we can get is used in all wearing parts, and our limit of variation in most measurements is less than one two-thousandth of an inch.

Before you decide on the purchase of a cream separator be sure to

See and Try a DE LAVAL

It will be only a question of time before you get a DE LAVAL anyway, so why not save yourself a lot of costly separator experience by starting right with the DE LAVAL?

THE DE LAVAL SEPARATOR CO.

165-167 Broadway
NEW YORK

42 E. Madison Street
CHICAGO

Drumm and Sacramento Sts.
SAN FRANCISCO

173-177 William Street
MONTREAL

14 and 16 Princess Street
WINNIPEG

1016 Western Avenue
SEATTLE

BIGGER ALFALFA PROFITS

also bigger profits on Timothy, Clover and other crops. Sow with the proven successful Thompson's Wheelbarrow Seeders—In use nearly 40 years—over 300,000 sold. Sows 30 to 50 acres a day, any amount to the acre—grass and any kind of seed. Simple, strong and durable. Other features. Get book by writing postal now. Every style and size for every seed and need.

O. E. Thompson & Sons
Ypsilanti, Mich.
John Deere Plow Co.
General Agents
Kansas City St. Louis
Oklahoma City Dallas



BOOK FREE
FENCE STRONGEST MADE. Built strong chicken-tight. Sold to the user at Wholesale Prices. We Pay Freight. Catalogue free. COILED SPRING FENCE CO., Box 255 Winchester, Indiana.

DAIRYMEN, TAKE A LOOK AT THE STRITE GOVERNOR PULLEY.

It's the original and "only thing" for driving cream separators with gasoline engines. Once tried, always used. TRY ONE. Ask your dealer for a "Strite" or write us direct. Don't take an imitation. STRITE GOVERNOR PULLEY CO., 326 So. Third St., Minneapolis, Minn.

HOW TO RAISE CALVES
without milk. Use Blatchford's Calf Meal. Ask your dealer. Write D. O. COE, Topeka.

Great KEROSENE Engine FREE TRIAL

Gasoline going up. Engines that use it too expensive. Kerosene perfect! Fuel only in the Amazing Detroit Engine. Wonderful in all moving parts. Never out of whack. Runs everything on ANY FUEL—COAL OIL, gasoline or distillate. Write for FREE TRIAL offer. Just say "send book" on postal, with name and address. Agents wanted. Detroit Engine Works, 304 Bellevue Ave. Detroit, Mich.

DAIRY



It is the decaying or organic matter, and not its mere presence, which enriches the soil. The process of decay liberates plant food. Therefore, keep piling on the manure.

Figure a little, too, on the new gasoline engine which you propose to buy. Get one big enough. Remember that a gasoline engine is marked to its full capacity and has no reserve power like a steam engine. For instance, a steam engine of 20 horsepower might develop 25 horse-power under favorable conditions, while the working average of a gasoline engine will often be below its rating, never above.

Interest in farm dairying and especially in dairy bred cattle is growing rapidly in Kansas. Recently one dairy farmer sold 105 head of dairy cows at public auction in Shawnee county, while a near neighbor sold his entire herd at public auction and has now gone to Wisconsin to buy more. Both the herds mentioned were Holsteins and the largest herd was auctioned off to settle up a partnership, while the smaller one was disposed of in order that the farmer might secure a better grade of cows.

Kansas dairymen enrich those of other states because they do not breed their own cattle. There are good profits to be made in the breeding of dairy cattle and why should not Kansas get this profit? Right now there is a Kansas man in Wisconsin for the purpose of buying pure bred dairy cattle because he cannot buy them at home. On the other hand, a Kansas breeder of Jersey cattle sold cattle to the amount of \$100 per day during the first 75 days of last year. He makes money and so can you.

The worst feature about the silo business is the prejudice which people have against it. We know of one farmer who tried the silo about 20 years ago and because he failed the first season, he has never tried again. It never occurred to him that the cause of his failure lay within himself and he still goes about condemning the silo in season and out. He is a man of influence in his neighborhood and has done much harm by condemning a thing about which he knows nothing and will not learn. He has kept his neighbors poor by his obstinate prejudice.

Another Jersey cow has assumed a position in the honor class. Heretofore the Jersey "pacemakers" have been Jacoba Irene, Olga 4th's Pride and Adelaide of Buchlands, each of whom produced 1,000 pounds or more of butter in one year. Now comes Sophie 19th with a record of 1,011 pounds of butter in 12 months and assumes second place in the group of four world beaters. During the test she consumed \$154.42 worth of feed reckoned at current market prices. She produced 14,373.18 pounds of milk and 854.86 pounds of butter-fat testing nearly 6 per cent. Her milk sold for \$718.65, which left a balance of \$564.23 for labor, cost of feed and interest on the investment.

Value of Skim-Milk on the Farm.

Some ten years ago when land was lower in price and feed was cheaper than it is today, skim-milk was valued at about 15 cents per hundred as a feed for pigs and calves. During the recent increase in land value the prices of all other feeds have nearly doubled, so skim-milk must increase accordingly. It should be noted that the feeding value of skim-milk is based on its bone and muscle building properties in the animal body. Experienced feeders all agree that the real value of skim-milk may or may not fluctuate, depending on how it is fed.

The question naturally arises as to

what is the present value of skim-milk for stock feeding. Experiments have shown that five pounds of skim-milk are equal to one pound of grain (corn, oats, barley) for pig feeding. On an average, four pounds of grain will produce one pound of gain with young pigs, while five pounds will produce the same gain on pigs 6 to 12 months of age. On this basis 20 pounds of skim-milk are required to produce one pound of gain with young pigs and 25 with older ones. With pork at 8 cents per pound, 100 pounds of skim-milk will produce 40 cents' worth of pork with young pigs and 50 cents' worth with the older ones.

In using skim-milk for veal production the fat removed from the milk must be supplemented by some cheaper vegetable fat such as lard or cottonseed meal. Feeding trials show that it takes from 15 to 20 pounds of skim-milk to produce one pound of veal. By taking the latter figure and valuing the veal at 7 cents per pound, skim-milk is worth 35 cents per hundred pounds for veal production.

The value of skim-milk may be obtained in another way by comparison with the market value of corn, oats and barley. The present value of grain will not vary far from \$1.20 per hundred, which gives corn a value of 73 cents per bushel, barley 62 cents and oats 41 cents, cost of grinding included. By figuring five pounds of skim-milk worth one pound of grain, this would give the skim-milk a value of 26 cents per hundred. The high mineral content of milk as well as the high degree of digestibility gives it a greater value than here accorded and places it in a class by itself. Think of raising a calf or a young pig without it. Skim-milk secures the highest development in growing stock, being rich in the two important essentials for growth, namely protein and ash.

Some hog feeding experiments with skim-milk and grain as compared with grain alone have been completed at the Central Experiment Farm in Canada. Several lots of hogs weighing about 120 pounds at the beginning of the test were fed on ground peas, wheat and rye mixed, the grain being soaked 18 hours prior to the feeding. The test showed that it required 3.43 pounds of the grain mixture to produce one pound of pork. When only half the quantity of the mixture was fed together with 15 pounds of skim-milk per day, it required 1.45 pounds of meal and 15 pounds of skim-milk to produce a pound of gain. According to this, one pound of grain was equal in food value to 7.7 pounds, or practically one gallon of milk.

In another case, when corn was fed for a period of about 100 days, pigs weighing 72 pounds at the beginning of the test, it required 4.11 pounds to produce one pound of gain. When one-half of this amount of corn was given to a similar lot, together with one pound of skim-milk each day per pig, it required 2.9 pounds of corn and 2.3 pounds of skim-milk to produce one pound gain.

Farmers who are selling their skim-milk to casein concerns figure the value of the whey too highly. It is practically safe to say that the casein fully counterbalances the value of the whey as a feed. Some labor is involved in feeding the skim-milk, but the value of the manure should cover the cost of labor.

Any surplus milk may be profitably fed to poultry. The milk-fed flocks demands an especially high price in the markets today. Feeding tests indicate that the highest returns from skim-milk are secured by feeding it to poultry. These instances certainly show the great value of skim-milk to the farm and of the profitable disposition that be made of it by the dairy farmer.—G. H. Teller, Chicago.

The 35th annual dairy show in London, England, had 66 entries of Jersey cattle, which was the greatest number in any breed. These competed with one herd of Guernseys, three herds of Ayrshires and several Red Polls, and yet a Shorthorn won the championship.

Records of a Dairy Shorthorn Herd.
I submit for your consideration the following records of a dairy Shorthorn herd as proof that these cattle might be bred to make "complete and creditable" records as dairy cows, writes W. A. Simpson of Vermont in his Dairyman.

This herd in 1910 had four cows that made records over 10,000 pounds each, including Rose of Glenside 18,562 pounds milk, 735 pounds butter. Thirteen (13) cows and heifers averaged 10,054 pounds each. All that finished records during the year—38 cows and heifers—half of them 2 and 3 years old and including old and young cows, averaged 7,812 pounds each.

During the past 10 years there have been made in this herd: 23 yearly records over 10,000 lbs. average 11,142 lbs. each.

52 yearly records over 9,000 lbs. average 10,164 lbs. each.

120 yearly records over 8,000 lbs. average 9,164 lbs. each.

One cow, still living, 19 years old at May, has descendants in the herd that have made:

11 records over 10,000 lbs. that average 10,767 lbs.

21 records over 10,000 lbs. that average 10,052 lbs.

28 records over 8,000 lbs. that average 9,823 lbs.

With the exception of one record, these records were all made by the daughters and their descendants.

No sons of hers were used in the herd until three years ago and none of their descendants are yet old enough to have made records, could there be a better illustration of the value of a good pure bred dairy cow?

This herd was established 20 years ago by the purchase of good dairy foundation stock that had size, constitution and dairy capacity and has been bred up by the use of bulls from heavy milking cows. At present there is in use a son of a cow with a yearly record of 13,232 pounds milk.

4 years, a bull whose dam and granddam average 15,652 pounds each and two sons of the old cow before mentioned.

The methods used in establishing this herd and the results obtained are worthy of study.

The present champions in each class of dairy Shorthorns are:

Rose of Glenside, form mature, 18,562 pounds milk.

Mamie Clay 2d, 4 years old, 13,231 pounds milk.

Doris Clay, 3 years old, 10,617 pounds milk.

Juliet, 2 years old, 10,395 pounds milk.

Rose of Glenside has the following averages for several years in succession:

14,261 lbs. per year for 2 years.

12,745 lbs. per year for 3 years.

11,472 lbs. per year for 4 years.

10,635 lbs. per year for 5 years.

10,013 lbs. per year for 6 years.

9,417 lbs. per year for 7 years in succession.

She is 10 years old.

Beginning as a 2-year-old, Mamie Clay 2d has an average of 10,640 pounds per year for five years in succession, and produced five calves.

Margaretta Clay has an average of 9,544 pounds per year for six years and 54 pounds per year for nine years in succession.

Jennie Lee has an average of 9,014 pounds per year for 7 years and 8,450 pounds per year for eight years in succession. There are many others.

Surely these are creditable dairy records. Good breeding and good feeding of any good kind of dairy cattle merits success. The above mentioned herd goes to prove, as many other herds do, that success can be obtained.

Breed better cows, know their capabilities.

BIG LOCOMOTIVE DRAWN BY MOLINE

**Five Passenger Car Performs
Strenuous Stunt as Result
of Wager.**

A little 35 horsepower Moline five passenger touring car last Wednesday started and pulled for 150 feet a 50-ton locomotive in the terminal yards. The engineer and fireman of the locomotive have made sworn affidavit to the effect that they did not help the little car in any way.

It was a remarkable sight which 500 people witnessed. The Albina ferry had just landed and a big crowd of people from that boat and from the surrounding factories came when they saw the strange preparations, all of them scoffing at the ability of the little car to start the big locomotive, to which a stout cable had been attached.

Carries Five Men.

Five passengers were loaded in the back seat of the Moline, that the wheels might get traction, the brakes on the locomotive were released and then the power applied to the little car. Running to the end of the rope, the wheels of the motor car spun for a moment and then the big locomotive commenced to move. It was a sight well worth seeing and one which every one of the witnesses will remember.

It had been expected that the little car would have to jerk at the big locomotive in order to start it, but no such action was necessary. Mr. Suiter knew full well the pulling power of the Moline's 4x6 long stroke motor. The little car started the big engine as smoothly as if it had been an ambulance filled with sick or injured men. No jerk, but a steady, irresistible pull and the big engine started. After running for 150 feet the airbrakes on the engine were applied and the machines brought to a standstill.

Railroad Men Surprised.

"We take our hats off to the little locomotive," declared the engineer and fireman, and accordingly gave the railroad salute to the little car.

The pulling of the big locomotive was the result of a wager between J. H. Lynch, contracting freight agent of the Soo lines, and Ed Suiter, vice president and sales manager of the Western Auto Company. A carload of Molines had been delayed in transit and Lynch was handed the usual roast. Suiter informed

him that automobiles could get here a lot sooner if they pulled the trains out themselves.

"Why that little Moline couldn't even start a locomotive, let alone haul a

train," declared Lynch.

"You get the locomotive and I'll pull it," declared Suiter, and the automobile man demonstrated the truth of his statements.

No Odds Too Great for the Moline "35"

The Moline accomplished the unprecedented feat of pulling a 50-ton locomotive—as smoothly as though it were running under its own power. This was a mighty significant test. Not because the ordinary man needs a car for the purpose of drawing a locomotive, but because it demonstrates the **mighty reserve force of the Moline**. And it is this same reserve force that carries Moline owners up the steepest hills, over the roughest roads, and enabled it to win Chicago Trophy, 1910 Glidden, and Team Trophy in 1000 mile Chicago Reliability run.

"The Best Test of an Automobile"

SENT FREE—tells the story, day by day, of the famous 1910 Glidden tour in which the Moline not only won the Chicago Trophy with a perfect score, but also outpointed every other competing car regardless of size, power or price. A postal will bring it to you by return mail.

Moline Automobile Co., 33 Keokuk St., E. Moline, Ill.

35 H. P.
36-inch wheels
112-inch wheel base

Toy Tonneau \$1600
Touring \$1650
Fore-Door \$1700

Steel Mills \$12.75
Iron Pumps 1.80
Steel Tanks 2.70
Gasoline Engines 35.90
Catalogs Free
The Ottawa Mfg. Co., 603 King St. Ottawa, Kansas

We make many sizes of Mills, Tanks, Pumps and Gasoline engines: satisfaction or no sale. You will save money if you investigate.

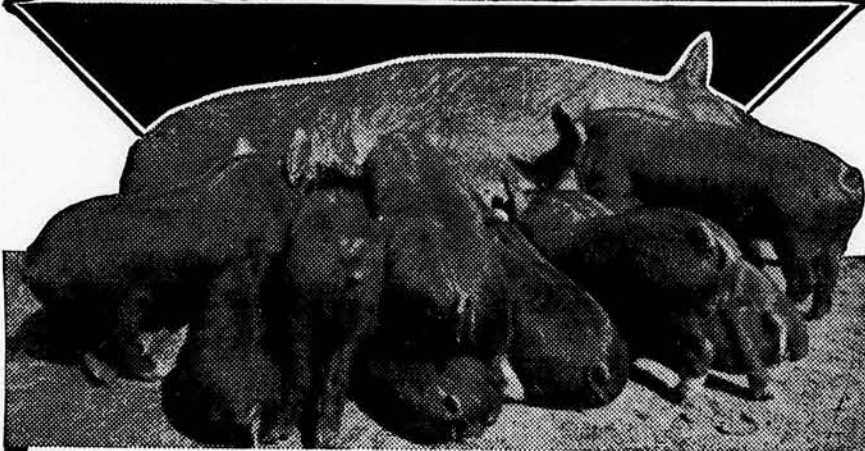
LADIES "FIXIT" mends all kinds of cloth, leather and rubber goods without sewing. Package 10c. K. WIDE & CO., 507 N. Centre Ave., Chicago.

EASTER POST CARDS FREE
Send me two stamps and I'll send you 10 beautiful Easter Post cards and tell you about my big SURPRISE, E. Z. MREDDITH, 63 Success Building, Des Moines Iowa.

IMPERIAL PULVERIZER **CLOD CRUSHER and ROLLER** Leads Them All.



Send for Circulars **The Peterson Mfg. Co** Kent, Ohio.



No Worms Here

If you want healthy litters of pigs like these you must keep them free from worms. Even three weeks old pigs are often found loaded with these deadly pests. Their growth is stunted. They cannot put on money-making fat. Worms rob both old hogs and young pigs of their feed, sap their vitality; steal away your profits every hour they are allowed to infest your herd. Stop this costly waste. It's easy with

SAL-VET The Great Worm Destroyer and Conditioner

A medicated salt guaranteed to rid hogs, sheep, cattle and horses of all stomach and free intestinal worms. Not only that, but Sal-Vet cures indigestion, puts an edge on the appetite; keeps your stock in tip-top condition. You do not have to "dose" with Sal-Vet. No drenching—no handling. Animals eat it naturally. They doctor themselves. Read what this wise farmer says:

"Please duplicate my last order for 1,000 pounds of Sal-Vet. I have fed nearly all the last lot, and can heartily recommend your remedy to anyone who has stock."—(Signed) John A. Rankin, Sr., care The Rankin Farms, Tarkio, Mo.

Try It 60 Days Before You Pay I know that Sal-Vet will rid your hogs, sheep, horses and cattle of worms and indigestion and I want you to try it—at my expense if it fails. Just fill out the coupon telling me how many head of stock you are feeding and I'll send you at once enough Sal-Vet to feed them 60 days. If it doesn't do all I claim, then you needn't pay me one cent. Send now.

SIDNEY R. FEIL, Pres.

The S.R. Feil Company, Dept. K.F. Cleveland, O.

Prices: 40 lbs. \$2.25; 100 lbs. \$5.00; 200 lbs. \$9.00; 300 lbs. \$13.00; 500 lbs. \$21.12

COMFORT
LONG WEAR
PROTECTION

Ideal Overalls

WARRANTED
NOT TO
RIP

body
can make
better overalls.
The cloth—the
best we can buy—is
cut over perfected
patterns which allow plenty
of room. All seams are elastic—
yes, elastic!—double stitched with
a lock stitch that gives, but won't rip.
Buttonholes perfect—never tear out.
Patent buttons, riveted on—never
come off. Plenty of pockets. Legs
made in two pieces—fit like trousers.
Fadeless, genuine indigo blue dyed
cloth—plain or neat fancy patterns.
Wash and remain shapely.

ASK FOR
THEM BY
NAME

Surely you want such perfect overalls! Get a pair at your store. If they're not the most satisfactory you ever wore, take them back and get your money. A free book about all Ideal Work Clothes—overalls, shirts, duck and corduroy coats—and dress shirts, and an interesting novelty for the children, mailed free if you tell us your dealer's name.

M. E. SMITH & CO.
Sole Manufacturers, 309 Farnam St., Omaha

Kills Prairie Dogs and Gophers of all kinds. Endorsed by State Experimental Stations. 1,400 tablets prepaid for \$1.25. Warrented. Battlede Tablets 25 cents. Ask druggist or send direct. Booklet free.

F. D. Chemical Co., Fort Dodge, Ia.

10,000 "Queens" in the Contest

Along the line last year, and the hen never fell behind. Friends, you are interested in knowing about the big hatches produced by the



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

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

your name for my great Poultry Guide. It is on a postal brings it. Tells the truth about Queens—contains reports and pictures of the 61,000 who are making money. Sound advice and rules. Get the book FREE.

CKSTRUM, Queen Incubator Man, Box 28, Lincoln, Neb.

Incubator on the Only Correct Principle

underneath, in the center. That gives it the temperature throughout the egg-chamber 4 to 8 quarts of oil. Automatic trip to flame at burner when too hot. Others escape. That's why the X-Ray Incubator only.

Gallon of Oil and One Filling of the Lamp

while others need 3 to 5 of oil and must be filled every day. Sold on 90 days' guarantee to be as represented or pay the freight.

INCUBATOR CO., Inc., Neb.

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INCUBATOR CO., Inc., Neb.

Milk is invigorating to chickens and whets the appetite for other food. It is rich in fats and is splendid as an egg maker. If the hens do not have a variety of feed, give them milk and watch them fill the egg basket. As milk is the greater per cent of water, it also serves to quench the thirst. If drinking water happens to be foul, plenty of milk will be very beneficial. There are different forms in which milk may be fed. It may be given fresh and sweet. In this form it is suited to any of the flock, from the baby chicks to the adult fowls. In a sour condition it is all right for the larger chickens, but should not be given the baby chicks, as they are liable to be afflicted with bowel trouble. As clabber cheese it is very fine for the little chicks. It may be fed to them with chopped onion tops or bread crumbs. When mashies, such as bran and oats and corn meal, are fed to chickens, there is nothing better with which to moisten it than warm milk. Such mashies should be fed at once to prevent souring.

Boys' Poultry Clubs.

With all the other movements now in progress in the country for the advancement of the poultry interests there comes now the proposition from the Agricultural College to organize in scores and hundreds of towns in the state "Boys' Poultry Clubs." The idea is to organize in these villages and towns a club of from six to twenty boys or more who are interested in the growing of poultry, and who wish to take up the work in a scientific and practical way. The extension department of the Agricultural College is directing this work in cooperation with Professor Jacoby, who is in charge of the poultry department of the college, and instructions for the organization of the club will be sent on application to the extension department. Each boy will be expected to grow nothing but pure bred fowls, and lessons will be given in poultry management, pamphlets furnished and instruction will be probably given once a year when some one from the college will spend at least one day with the club. This is the first announcement made and the college is very anxious that men who are interested in poultry shall encourage the boys of the villages and small towns to organize these clubs. It is a good movement and ought to appeal to principals of public schools, to village pastors and others interested in the education of the boys in practical things. All correspondence relative to these clubs should be addressed to the extension department, Agricultural College, Manhattan, Kan.

The Advantage of Open Houses.

The Maryland Agricultural Experiment Station has been conducting a series of experiments with poultry houses of different types, ranging from the tight house with double walls to the cheaply constructed open front house. These experiments are reported in Bulletin No. 146, of the station, "Poultry House Construction and Its Influence on Domestic Fowls."

The discussion of results to date is summarized as follows:

"(1) That the cost of tight double walled construction is greater than of any other type. In the experiment it was found that the fertility and hatching quality of eggs were very much better in fresh air houses of less expensive construction.

"(2) So far as present data indicates, the general health of the adult fowls was not seriously impaired by environmental conditions.

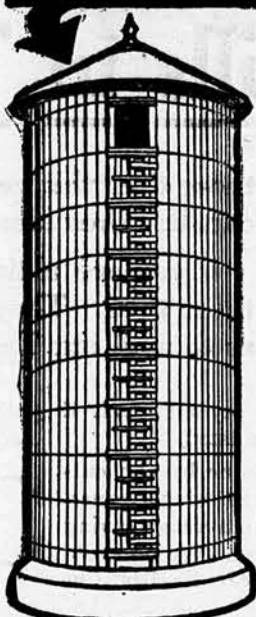
"(3) The amount of food eaten by the fowls does not appear to be influenced by housing conditions.

"(4) The present data indicates that egg production is largely influenced by the action of individual hens rather than by environmental conditions. This, of course, applies to the first generation. It may be found that future generations will show a more definite variation in favor of the fresh air house, or vice versa.

"(5) That the fertility and hatchability of eggs is much better in the open and cloth front houses, where the fowls are allowed free access to yards or range. This is more noticeable in the second year of the first generation.

"(6) That the progeny of fowls in fresh air houses, having free access to yards or range, are more resistant to disease than those of the fowls which are maintained in houses of

Kansas Hinge Door Silo



SAVES ITS COST EACH YEAR

It will enable you to keep three cows where you now keep one. It will reduce the cost of producing beef, milk, mutton and eggs. It will build up your soil and increase the value of your land. It will make one acre of corn worth two.

IS BUILT TO LAST.

Washington Fir, fully seasoned, is used throughout. Government tests have proven that it stands moisture and has a low degree of shrinkage and expansion.

POWERFUL FRAME AND LADDER.

A silo must be built to stand the storms that will come upon it. That is why we use a strong steel frame—the strongest frame we can build.

The ladder is made of malleable iron—will bear the weight of five men—steps 15 inches apart, with 7-inch clearance.

CONTINUOUS HINGE DOORS.

The HINGE DOOR is patented. It is the one great improvement in silo construction. It makes the KANSAS SILO the leader. The HINGE DOORS are always in place, easily swinging into and out of position and are not scattered about the farm as box covers or freeze and do away with the necessity for carrying them up and down the ladder.

FULL LENGTH STAVES.

No "spliced" staves in the KANSAS HINGE DOOR SILO. Full length staves only, regardless of height. "Spliced" joints or two-piece staves are apt to bulge or break. The Full-Length Stave Silo is far superior.

HIGH QUALITY BUT NOT HIGH PRICE.

We could not build the KANSAS HINGE-DOOR SILO better. The highest quality material—every modern convenience—yet the price is but little higher than prices asked for Yellow Pine Silos, which soon twist, warp and decay.

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

CONTINENTAL CREAMERY CO.

BOX 211, TOPEKA, KANSAS

WHITE PLYMOUTH ROCKS

(EXCLUSIVELY.)

For 12 years I have bred White Rocks, the best of all purpose fowls, and have some fine specimens of the breed. I sell eggs at a reasonable price. \$2.00 for 15, or \$5.00 per 45, and I prepay expressage to any point in the United States.

STATION B.

THOMAS OWEN,

TOPEKA, KAN.

Why Incubator Chicks Die

The book entitled, "The History of White Diarrhoea or Why Incubator Chicks Die," will be sent absolutely free by return mail to any one sending us the names of 5 to 8 of their friends that use incubators. This book can save you \$100 this summer. It describes white Diarrhoea, or bowel trouble, the cause, and tells of a cure. Book absolutely free for the names.

Raisall Remedy Co.,

Blackwell, Okla.

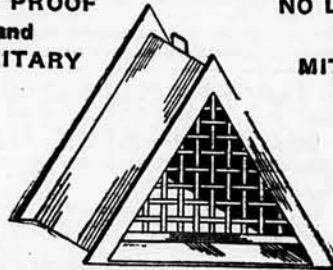
other construction, and not having the liberty of the yards during the breeding season."

These results, in general, accord with results of other experiments with different types of houses and with general experience with fresh air houses. It is stated that the results indicate that in the Maryland climate tight houses are not advisable. Similar results have been obtained at the Ontario station where winters are severe.

In answer to a subscriber we would say that salt in moderate quantities is not injurious to fowls, but rather a necessity in their feeding. Many people labor under the mistaken impression that no salt should ever be put into poultry food, simply because highly salted food, such as salted fish or old pickled meat have killed chickens. It killed them because they ate too much of it at a time. As a matter of fact, no living thing can get along entirely without salt in some form. Chickens can always get salt in summer by eating grass, which absorbs a certain amount from the soil. But in winter it is different. During cold weather all prepared chicken foods, such as mashies, should be salted in about the same proportion as for human food. If this is done, the poultry will be healthier and more productive.

RAT PROOF
and
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NO LICE
OR
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GLUCK'S PRIDE COOP makes chicken raising profitable. Better than any wooden coop you ever saw. Made of galvanized iron, rust and vermin-proof. No painting required. Never becomes damp, folds flat when not in use. Ends and bottom removable and thoroughly ventilated. Write today for full particulars and prices. MAURER MFG. CO., Box 33, Freeport, Ill.

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chicks more chicks

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with asbestos and galvanized

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world. Agents wanted. Catalog free. N.H.I. Co.,

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Horticulture

Ask for Our Tire Book

Cut Tire Bills in Two

Probably 100,000 motor car owners now use these tires this year. They now outsell our Goodyear No-Rim-Cut tires—10% oversize. clincher tires almost six to one.

The control of this tire jumped our tire sales last year to \$8,500,000. And 64 leading motor car makers have contracted for us to mail our Tire Book.



Goodyear No-Rim-Cut Tire

The No-Rim-Cut tire—like the clincher tire—fits any standard rim for quick-detachable tires. Also demountable rims.

In changing from clinchers, you simply slip each removable rim flange to the other side. Then the tire comes against a rounded edge, as shown in the picture above.

We have run these tires flat in a hundred tests—as far as 20 miles—without a single instance of rim cutting.



Ordinary Clincher Tire

With the ordinary tire—the clincher tire—these removable rim flanges must be set to curve inward—to grasp hold of the hooked tire base. That is how the tire is held on.

The picture shows how the thin edge of the flange then digs into the tire. That is the cause of rim cutting. That

is what ruins a tire beyond repair if you run it not fully inflated.

More damage is done by rim cutting than by any other single cause. To avoid it means an average saving of 25 per cent on tires. We do avoid it utterly in Goodyear No-Rim-Cut tires.

The Secret

The reason lies in 126 braided piano wires which we vulcanize into our tire base. That makes the tire base unstretchable. Nothing can force it off of the rim until you unlock and remove the rim flange.

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

That's why No-Rim-Cut tires are not hooked to the rim. That's why the rim flanges can be turned outward. Not even tire bolts are needed.

We control this feature by patent. All other methods for making an unstretchable tire base have been found deficient. Single wires or twisted wires won't do. The braided wires

which contract under air pressure are essential to a safe hookless tire.

Tires 10% Oversize

When the rim flanges curve outward, the extra flare lets us make these tires 10 per cent oversize. And we do it without any extra charge.

This adds 10 per cent to the carrying capacity—10 per cent to the air cushion. It takes care of the extras—the top, glass front, gas tank, extra tire, etc. It avoids the overloading which is almost universal without the oversize tire.

This 10 per cent oversize, with the average car, adds 25 per cent to the tire mileage. These two features together—No-Rim-Cut and oversize—are saving thousands of motorists about half on their tire bills. Nothing else invented in late years saves so much on upkeep.

Yet these patented tires—which used to cost one-fifth extra—now cost the same as other standard tires.

Our Tire Book explains things fully. It tells all we have learned about making tires in 12 years spent in tire making. It tells how you can reduce your tire bills to a trifling sum.

It is time that every motorist knew these facts. Please write us to mail the book.

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We Make All Sorts of Rubber Tires

(253)

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Fences for horses, cattle, sheep, hogs, chickens, etc. 160 styles.

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Absolutely necessary to make plant life thrive.

The Topeka Packer

produces a reservoir or storage tank for moisture before planting by packing the soil to prevent waste of water by evaporation, thus insuring a larger yield of any kind of crop. It produces a dust mulch for winter wheat or alfalfa, thereby holding enough moisture in a dry spring to carry the crop to full maturity. Profits of 50 to 100% have been made by many who have used a Topeka Packer. Send for circular No. 21. The United Mercantile Co., Topeka, Kansas

F. D. Coburn Endorses Its Use.

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Save Time and Money

With the Kramer

and create the perfect Seed Bed in one operation. Can be attached to any wheel plow. Saves all the labor of harrowing and locks in the moisture for the plant. Be sure you get the Original and Genuine Kramer Attachment. Endorsed by leading State and U. S. Departments of Agriculture. Don't be fooled by cheap and worthless imitations. Write for free illustrated catalog. 33

The Kramer Co., Paxton, Illinois

Windbreaks.

Please advise through KANSAS FARMER the best thing to set out for a windbreak.—Geo. Buist, Cawker City, Kan.

It is rather difficult to answer such a question without knowing the location of the farm and the kind of soil upon which it is proposed to set the windbreak. As a general rule our choice would be the red cedar though there are several other evergreen trees which make as rapid growth and are equally effective for the purpose. The red cedar, however, is native to Kansas and will stand a much better chance of growing than would the imported varieties of evergreen. Their habits of growth are such that they furnish a better protection than do the more open pines.

Secure well grown trees from a nurseryman and insist that they be delivered with an undisturbed ball of earth about the roots about which is tightly wrapped a burlap covering. If the holes are dug large enough and the trees well planted and staked against the wind if necessary there ought to be no great difficulty in growing a splendid windbreak in a few years. Catalpa speciosa may be planted on the outside as a protection against summer heat and storms and they will make good posts later.

The Propagation of Plants.

The red raspberries are propagated from cuttings of the roots or by suckers that grow naturally from the roots of the old plants. Plants properly grown from root cuttings are better than the suckers. The Black Cap raspberry is increased by bending down the canes of the season and covering the tips of the main canes and branches, and each one will make a new plant.

The same methods prevail with the blackberry; the early trailing blackberry or dewberry roots from the tips of the canes, while the high bush blackberry is increased from root cuttings. The best way to do this is to lift some old plants in the late fall, shorten the roots and replant them, using the roots taken off to make cuttings about two inches in length. These are mixed with damp sand in boxes and buried outside for the winter. In the spring these cuttings are planted in shallow furrows in rows where they can be cultivated during the summer, and make good plants for setting in the fall, the little cuttings being dropped along the rows just as in planting seed.

Currants and gooseberries are increased by cuttings of the one-year old shoots. These, too, are better made in the fall, eight or ten inches long, tied in bundles and buried for the winter, and set in the nursery rows in the spring nearly their full length in the ground. Grape cuttings are made in the same way, making the cut an inch above a bud at the top and just under a bud at the bottom.

Nearly all of our spring and summer flowering shrubbery can be increased by cuttings made in the same way as those of the currant. But some of these, like the Pyrus Japonica and the Crape Myrtle, grow more readily from cuttings of the roots in the greenhouse. The California Privet, now so largely grown for hedges, is easily grown from cuttings set in the spring. Last spring I set a hedge planted from these cuttings that I got from plants I bought to make a hedge, and by fall the hedge planted from these cuttings was as tall as the one from the original plants. But you can make cuttings of the one year ripe wood of the Spirea, Weigelia, Deutzia, Forsythia, etc., in the fall and bury them over winter ready to set in the spring, and they will grow with certainty.

TEN WEEKS 10 CENTS.

Put a dime of ten cents worth of postage stamps in an envelope with the name of some good friend or neighbor to whom you would like the Kansas Farmer sent ten weeks as present from you. We will send a neat card to your friend telling you are sending him the paper. Could you do him a better turn?

The GRANGE

Grange education in practical politics teaches the citizen to sweep in front of his own door, and says: "It is right for every member to do all in his power legitimately to influence for good the action of any political party to which he belongs. It is his duty to do all he can to put down bribery, corruption and trickery." Don't wink at it in your own party and then condemn it in another. "The principles we teach" don't teach that.

While the Grange is not partisan its place in practical politics is well expressed also in that platform: "Yet the principles we teach underlie all true politics, all true statesmanship, and, if properly carried out, will tend to purify the whole political atmosphere of our country." Can any intelligent person for one moment believe that the political atmosphere does not need purifying? The "machine" politician, the "professional" politician, the partisan press, on the old plan of blowing smoke to quiet the bees, told the voters that it was "the other fellows who are all wrong, we are all right." Grange education teaches the citizen to get the beam out of his own eye, and then he can see clearly to get the mote out of his brother's eye.

And practical politics does not mean that the Grange should become partisan. Officially it says: "We emphatically and sincerely assert the oft-repeated truth taught in our organic law, that the Grange—National, State or Subordinate—is not a political or party organization." Where it has been attempted by misguided leaders, it has brought the Order nigh unto death in whole states, and the partisan chiefs have been buried beneath the ruins of the temple they destroyed. The Grange must not be used as a cat's paw to draw the political chestnuts out of the fire. More than once has it been said to me: "You Grangers will never get all you are after until you organize a new political party." My answer has always been, "We don't expect, nor have to, organize a new political party, but we will run all the old ones when we get the farmers organized and educated enough to mind their own business as American citizens."

It is now thirty-seven years since the Grange, after it had from small beginnings and slow growth, become national in name and fame; after it had commenced to win some of its most notable victories, and largely so through legislation, or practical politics, felt called upon to tell the world just where it stood in morality, business, religion and politics. And it did so in no uncertain words, nor with halting, hesitating, uncertain sound—"Profoundly impressed with the truth that the National Grange of the United States should definitely proclaim to the world its general objects, we hereby unanimously make this Declaration of Purposes of the Patrons of Husbandry:

First—United by the strong and faithful ties of agriculture, we mutually resolve to labor for the good of our Order, our Country, and Mankind."

In a Republic the way "to labor for the good of our country," is through practical politics.

Indian Creek Grange Year Book.
Indian Creek Grange, which boasts of a splendid new stone building for its home and which is located some few miles north of North Topeka, has issued a very handsome year book for 1911.

Among the features noted are the standing committees on refreshments, visiting the sick, reception, music and the fair. The Grange meets the first and third Tuesdays of each month with general subjects and special addresses. Poultry, corn, gardening, sanitary conditions of farm and household, a short time with the poets, field day, hay, the grange fair, farm dairying, home and fireside are among the general subjects.

This Grange is a most successful

one and the visitor can spend his time in no more profitable manner than by taking part in their programs.

Justice to Our Sisters.

At the next general election we will have the privilege and to many of us a duty of granting equal suffrage. The Grange has always been as a progressive order, foremost in granting equal rights to women members.

We have offices in our order that can only be filled by women, and in our meetings they have the same right to vote that the men have.

When a brother is elected as a delegate to the State Grange the election includes his wife and her vote counts the same as his. A large majority of the patrons are in favor of equal suffrage and their vote and assistance will be cheerfully given to assist progressive civilization and extend justice to the better part of humanity.

The National Field.

It has often been said that the Grange helps the farmer as a producer, as a man, and as a citizen. And it is in and through the last item that the greatest good must come, the others and all else depend upon it. Through it, for himself, for his family, for his class, and for his country, the farmer must "work out his own salvation." We are taught that our first duty is to God, and that our next duty is to our neighbor. First our church, and then our country. At a public Grange meeting once upon a time, I heard a member who was the pastor of the local church say: "If the regular weekly prayer meeting of my church happened upon the same night as the primary meeting of my political party, I should feel it my duty to let that one prayer meeting out of fifty-two go by, and attend that one meeting of the year and do my duty as an American citizen." That is practical religion, and that is practical politics. The old captain in the days of the Revolution said: "Boys! trust in God, but keep your powder dry."

The Cost and the Price.

A New York apple grower recently gave some figures showing the cost and profits of handling his orchard. As these are both so much above anything to which we are accustomed in the corn belt they may not only be of interest but highly suggestive as well.

This New Yorker has 25 acres in apple orchard on which he spends \$2,700 per year in labor and fertilizers. Think of that! One hundred and eight dollars per acre each year on the apple orchard. Here is how he distributes this amount: Labor, \$850; fertilizers, \$250; spraying, \$200; picking and packing, \$500; barrels, \$900. A pretty heavy outlay?

But what does he get out of all this labor and expense? Last year he sold 2,500 barrels of apples at \$3.50 per barrel, which made a gross return of \$8,750, or a net return after all expenses had been deducted of \$6,050, which is just \$242 per acre net.

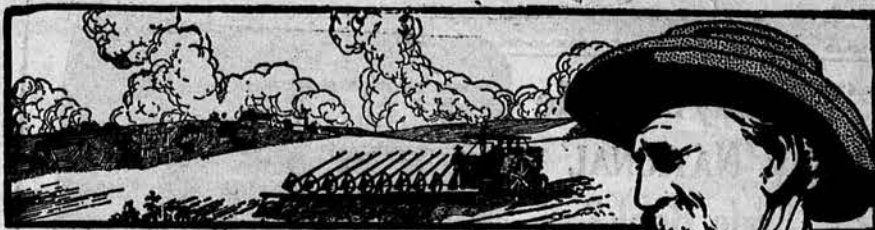
Now a little figuring will show that this amounts to 24.2 per cent a year on a land valuation of \$1,000 per acre or 24.2 per cent on land worth \$100 per acre.

Like any other agricultural operations the crop returns will vary with the season but these figures are given as the average of a number of years and do not vary greatly. Under modern conditions of management the crop does not vary either in quantity or quality as it once did. With spraying, fertilizing, pruning, and cultivation the crop is more nearly sure and the quality vastly better than could be possible without them. Apples will thrive in Kansas if they are cared for and the market is good.

Co-operation in buying or in breeding is a proposition which not only gives you something for nothing, but pays you for taking it.

There is one thing radically wrong with this new hog cholera serum. There is not enough to go around.

A pig is a hog's little boy.



You hear a great deal these days of intensive farming which doubles the yield of the soil and makes good crops almost certain. Intensiveness is the spirit of modern progress. Intensive methods of Watch making have made the

WALTHAM

the highest type of a time-piece, the preferred Watch wherever time is valued and accurate time-keeping is the essential. It's the favorite watch with business men, professional men, railroad men and farmers.

The P. S. Bartlett Movement is a great favorite with outdoor workers. Its solid construction, preserves accuracy of adjustment under hardest usage. It is made in 16 and 18 sizes, has 17 select jewels and is skillfully adjusted. Your jeweler will supply you and regulate the movement to your individual requirements. Write for descriptive booklet.

"It's Time You Owned a Waltham"

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Is \$21.25 To \$45.00 Worth Saving On A Cream Separator?

IF IT IS, then write for my big new Book about Cream Separators, and the Personal Price Proposition that I'll make you for a limited time only. It's the most complete and interesting book ever written on the Separator question. Full of eye-opening information and truthful pictures of Galloway's famous Bath-in-Oil Cream Separators—\$29.75, and up. We make a line of cream separators equal in every way to the highest priced separators made. I sell them direct to farmers in great quantities at enormous savings. There is absolutely no reason in the world why you should pay around \$85 for a separator that skims no better than the Galloway—if as good. That \$85 you are asked doesn't represent separator value. What it does represent is what you are asked to contribute to the many-profits system in the old-fashioned way of selling. Just compare this with my low-priced system. Then again look out for the machines that are way too cheap. You don't want one of those at any price.



Galloway's Bath In Oil Cream Separator

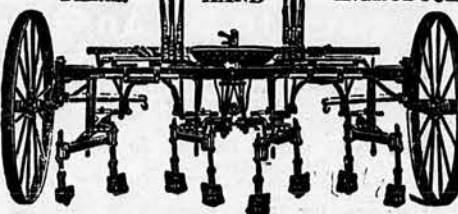
We deal on a big scale. We have to, because my whole business depends upon the law of volume. By dealing with tens of thousands of farmers I am able to sell implements direct on a small margin of profit. I am able to save you from \$21.25 to \$45 on a Cream Separator of higher quality because of this and because of my splendid factory organization and improved automatic machinery. But one thing I don't save on is materials.

The only way I save on materials is by buying in enormous quantities. I don't save at the expense of quality. If Galloway's Bath-In-Oil Separators were not equal in every way to the highest-priced separators on the market, I wouldn't dare to guarantee them as I do. I wouldn't dare send them to you freight prepaid on 30 days' free trial with the distinct understanding that I'll accept them back on your say-so and refund every cent of your money, including freight charges both ways. I stand all the expense—take all the risk. It is up to me to convince you—to satisfy you. Now sit down and write for my big Separator Book. It's interesting and it's convincing. Let me make you my personal price proposition. Send me a postal NOW.

William Galloway, President
The Wm. Galloway Company
383 Galloway Station, Waterloo, Iowa

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15 DAYS' TRIAL RIGHT ON YOUR FARM. SAVES A HAND. SPECIAL LOW PRICES TO INTRODUCE



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THE ORIGINAL SUCCESSFUL 2-ROW Cultivator in America. David Rankin's needs, as the greatest corn raiser in the world, compelled its inception and development.

Unequaled in construction, operation and work performed. Thousands in use. Better today than ever. Saves a hand on every farm. Special low price to introduce in new neighborhoods. Genuine bargain offer to first inquirers. Costs nothing to get it. May save you \$20, besides getting the best "two-row" on earth. Don't delay writing us.

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That is the message we are waiting for from you, that we may send you free your "NATIONAL" Style Book. That is what your book is waiting for—only a word of welcome and your name and address.



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We have reserved one Style Book for every reader of this publication because it is the most interesting fashion book ever published—and also because we know you will be delighted with your copy.

It shows 224 pages of the new styles—and all are offered at "NATIONAL" prices. It illustrates and describes "NATIONAL" Tailored Suits, made to measure, \$15 to \$40.

You can make your selection from all the new suit models and have a suit designed, cut, made, trimmed and lined to your special order—actually and in every detail made to measure for you.

But even more than this. You have unlimited choice of over 300 materials. And now comes the wonderful part—we guarantee the finished suit to fit you and please you perfectly—we absolutely guarantee your complete satisfaction, or we will refund your money cheerfully, and pay express charges both ways.

In writing for your Style Book, be sure to state whether you wish samples for these "NATIONAL" Made-to-Measure Tailored Suits. Samples are sent gladly, but only when asked for.

And what shall we say of the new "NATIONAL" Waists—the most charming collection ever gathered together—and "NATIONAL" Skirts, America's best and most stylish. Let us give you a brief index of the magnificent showing of the new styles:

Waists . . . 98 cents to \$3.98	Hats . . . \$1.98 to \$14.98
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In fact, nearly everything for Women, Misses, and Children is beautifully illustrated in the "NATIONAL" Style Book we have reserved for you, to be sent you free if you write for it.

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HOME CIRCLE



When We Drop the Broom and Needle.

When we drop the broom and needle and brenneath the falling leaves
Take the long, long sleep that comes to all,

Will an angel come to comfort every soul that sits and grieves,
With a message clear as writing on a wall,

Saying, "She that passed away, though her feet were made of clay,
Bore a heart as chaste as gold.

Though she wore the common yoke, every syllable she spoke
Was uplifting, glad and bold.

No indifference or disdain kept her free from other's pain;
Life was precious to her, every drop.

For the querulous complaint, for the breath of scandal faint,
She had never time to stop.

She has gone, but still her face, like a sun-beam, haunts the place,
And the memory of her foot upon the stair,

Like a breeze upon the brow, like a perfume from a bough,
Puts an end to sighing, mourning and despair."

When the silent voices call, and the days and years shall fall,
Silent fall, like the leaves upon the lea,
Will the angel speak such words of you and me?

—Ethelwyn Wetherald.

Carelessness does more harm than want of knowledge.

Equal parts of sweet oil and lime water make an excellent remedy for scalds and burns, it is said.

The highest human habitation is believed to be the railway station at Galera, in Peru. It is 16,635 feet above sea level.

When in a hurry yet wanting baked potatoes try boiling them for ten minutes in salted water. The boiling water heats them through and they will bake in a short time.

One evening small Bessie was given some hash for the first time. After tasting it she said: "Mamma, what was hash before it died?"

Mamma—"Fred, why do you call your little playmate 'Brownie'?"

Small Fred—"Well, his name is Brown, so we call him 'Brownie' for short."

It is said that the "shine" can be removed from a dark wool material by sponging it with a solution of blueing and water. Lay a thin cloth over it and press it while still damp.

It is said that the meats can be removed whole from pecan nuts if the nuts are soaked over night in cold water. This causes them to expand and when they are cracked the meats are easily removed.

8675. Girl's Dress with Seven Gore Panel Skirt, and With or Without Panel Trimming on Waist.

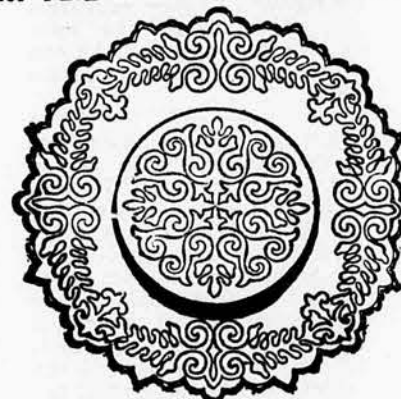


This neat and simple model may be made with a plain waist having long

or shorter sleeves, or as illustrated, with panel effect in either of two styles as illustrated. The skirt has seven gores. The fulness of the waist is held by a deep fold or plait over the shoulders. Blue cashmere with self stitching or a finish of blue or black soutache braid and decorated with fancy buttons is very appropriate. The model is equally suitable for voile, panama, gingham, linen or chambray. The pattern is cut in 4 sizes, 6, 8, 10, 12 years, and requires 3 yards of 44 inch material for the 6 year size. A pattern of this illustration mailed to any address on receipt of 10 cents in stamps or silver.

1610. Design for a Lingerie Hat.

The popularity of the lingerie hat is greater than ever. In embroidery or braiding, it will be found desirable for linen or lawn. The model here



shown is sold on linen ready for embroidery for 50 cents. Perforated pattern for 25 cents. Transfer pattern for 10 cents.

The Home and the House—Vital Distinction that Many Young Couples Fail to Make.

Mrs. Margaret M. Bangs of Chicago, recently addressed the Edwardsville, Ill., meeting of the Household Science Department of the State Farmers' Institute.

She referred to Kipling's story, "The Cat that Walked Alone"—how man was wild till woman showed him it was better to live in a dry cave than in a wet cave; how she built a fire and hung up horse hair for a door, and told man to wipe his feet and come in, etc., and added the following ideas:

A foolish story you say, a man and a woman and a baby and the domestic animals in a cave; but that was home. I love these stories for the children which contain in the background good things for older people.

HOME IN A FLAT.

I saw a mother holding up a little baby to the window and looking down the street, and I saw a man hurrying along with a valise, and just as he got to the front door a little boy flew out and was grabbed in the man's arms, and the woman stood at the window with the baby. And, friends, that window was in a flat. Prof. John W. Cook said that morning that there could be no home in a flat. If you are so fortunate as to have a beautiful home surrounded by sunlight and your own grounds, you are happy. But there are people who must live in flats. Why should you or I preach that the person who lives in a flat shuts out the home? That was a home in the flat. But it is a tremendous problem with children in a flat. SEPARATE THE PRINCIPLE FROM THE DE

TAIL.

The house is not the home. People have made homes from the branches of trees. The domestic science work all over the state is trying to separate details from essentials, to learn the difference between the detail of a thing and the principle you want to hold. A flat is no place for children, but good children can be raised in a flat. What are the essentials; what difference does it make?

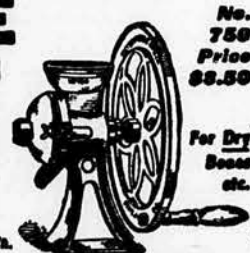
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LET 'EM WORK OUT THE IDEA.

When your grandmother was young she had exactly the same duties you have, but presented in a different form. She knew of one poor family and went and gave. But now women are in a big world so great that each can't do it all and they have to cooperate. The trouble is we always want to tell other people exactly how to do. If we ever succeed in telling a person how to do a thing let her alone for the doing. The greatest educational movement I know of is the uprise of the country people for the management of their own affairs.

GREW OUT OF HER OWN CONSERVATISM. I am a country bred woman looking at city life through country eyes. When I moved to Chicago I was told there was a laundry room that I might use and a drying room behind. No clothes smell like anything when they are dried in the house. I said "I will dry those clothes in the back porch." My neighbor said, "Why don't you hang the clothes in the drying room? You don't think it is clean to put them there, but you will learn." I tried that for a full year and the clothes smelled sooty. I have given up conservatism on that one point, and learned to put them in the drying room.

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EMPIRE BUILDERS

By FRANCIS LYNDE

CHAPTER TWENTY-ON THE MILLS OF THE GODS.

IT WAS merely by chance that Adair had Michael Gallagher for his engineer when the "01" was made up for the after-midnight run from Saint's Rest to the MacMorrough headquarters. But it was a chance which was duly gratifying to Leckhard. The little Irishman was Ford's most loyal liegeman, and a word was all that was needed to put him on his mettle. The word was spoken while he was oiling around for the man-killing extra service.

"Pretty well knocked out, Michael?" asked Leckhard, by way of preface. "I am that, Misther Leckhard. 'Tis the good half of lasht night, all day yesterday, and thin some."

"It's tough. But if any of the other men were in, I should still ask you to go. Mr. Ford is in a pinch, and Mr. Adair, your passenger, is going to help him out. He can do it if you get him to Horse Creek in time; and I know you'll get him there if the 956 and the '01' will stay on the steel."

"To help Misther Ford out? That's me," said Gallagher simply. "Not having a wire, I can't boost you any from this end. You'll meet Folsom and Graham with the other two sections of empties where you can; you'll run as fast as the Lord'll let you on such a track as you have; but above all, you'll stay on the rails. If you ditch yourself, it'll go hard with Mr. Ford."

"I'll do all thin things and wan more—and that wan is the shiftest av thin all: the saints aidin' me, Misther Leckhard, I'll shay awake."

There was a short siding at the summit of the pass, and by good hap, Gallagher met Folsom with the first string of empties at that point; or rather, giving the bit of good luck full credit, he heard the roaring of Folsom's exhaust as the first of the opposing trains pounded up the dangerous western grade, and hastily backed up and took the summit siding.

Pitching over the hill with the "01" the moment Folsom's tail-lights had passed the outlet switch, Gallagher had a sharp attack of memory. The day before, in the Horse Creek yard, he had seen and remarked a jagged scratch on the side of the Nadia. Hence, he was watching for the narrow rock cuttings, and the three passages perilous on the cliff face were made in safety.

Once off the mountain, however, the greater peril began to assert itself. For a time the Irishman kept himself fully awake and alert by pushing the 956 to the ragged edge of hazard, scurrying over the short tangents and lifting her around the curves in breath-taking spurts. Later this expedient began to lose its flip. Since the train was running wholly on the air-brakes there was nothing for the fireman to do, and Jackson, the loyalist understudy Gallagher had ever known, tumbled from his box in a dose, staggered across the gang-way into the half-filled tender, and fell like a man anaesthetized full length on the coal. Gallagher did not try to arouse him.

"Tis hell for wan, an' twice hell for two," he muttered; and then he shifted his right hand to the brake-cock and grasped the hot throttle lever with the ungloved left. And for a time the pain of the burn sufficed.

It was another piece of luck, good or bad, that made Ten Mile station the special train's meeting point with the second train of empties. This time it was Graham, the other engineer, who heard. He had stopped at Ten Mile on the bare chance that the wire between that point and Saint's Rest had been repaired; public opinion to the contrary notwithstanding, an engineer does not run "wild" when he can help it.

The engineer of the third section had come out of the night operator's office disappointed, and was climbing to his engine to pull out, when he heard, or thought he heard, the dull rumble of a train racing down the canyon. It came in sight while he listened, and the yellow flare told him that it was either Gallagher or Folsom doubling back on one of the construction engines. What startled him was the fact that the coming train appeared to be running itself; there was no warning whistle shriek and no slackening of speed.

Graham was a Scotchman, slow of speech, slow to anger, methodical to the thirty-third degree. But in an emergency his brain leveled itself like a ship's compass gimballed to hang plumb in the suddenest typhoon. Three shrill whistle calls sent a sleepy flagman racing to set the switch of the siding. With a clang the reversing lever came over and the steam roared into the cylinders.

The Scotchman had the grade to help him, which was fortunate. When he had the string of empties fairly in retreat, the beam of Gallagher's headlights was shining full in his face and blinding him. For a heart-breaking second he feared that the opposing train would follow him in on the siding; there was but an instant for the flicking of the switch. But by this time the sleepy flagman was wide awake, and he jerked the switch lever for his life the moment Graham's engine had cleared the points. It was the closest possible shave. Gallagher's cab ticked the forward end of the other

engine's running board in passing, and if Graham had not been still shoving backward with the throttle wide open, the "01," being wider than its piloting engine, would have had its side ripped out.

Graham had a glimpse into the cab of the 956 as it passed and saw Gallagher, sitting erect on his box with wide-staring eyes. He knew the symptoms, and feared that he had only postponed the catastrophe. The siding was a short one, and he knew that in backing down he must inevitably have shoved the rear end of his train out upon the main line at the lower switch. Once again the level brain righted itself to the emergency. Four sharp shrieks of the whistle for switches, a jamming of the whistle lever to set the canyon echoes yelling in the hope of arousing Gallagher, and Graham slammed his engine into the forward motion without pausing to close the throttle. There was a grinding of fire from the wheels, a running jangle of slack-taking down the long line of empties, and the freight train shot ahead, snatching its rear end out of harm's way just as Gallagher, dreaming that his boiler had burst and that all the fiends of the pit were screeching the news of it, came to life and snapped on the air.

When the stop was made, the little Irishman roused his firemen, got off and footed it up the line to see what he had done. Graham had stopped his engine when he was sure his train was clearing the lower switch, and was on his way back to find out what had happened to Gallagher. The two men met in the shadow of the halted material empties, and it was the Irishman who began it.

"Paste me wan, Scotchie," he said. "'Tis owin' to me."

Without a word the Scotchman gave the blow, catching the little man full in the chest and knocking him half a car length. That was enough. Gallagher picked himself up out of the gravel, the lust of battle hot upon him.

"Wan more like that, ye divvie, and I can lick ye if ye wor Fin-mac-Coul himself," he panted; and Graham gave it judiciously, this time on the point of the jaw. For five bloody minutes it went on, give and take, down and up; methodically on Graham's part, fiery hot on Gallagher's. And in the end the Irishman had the heavier man backed against the string of empties and yelling for quarter.

"Are you fully awake now, ye red-hot blastoderm?" gasped Graham, struggling to free himself when Gallagher gave him leave.

"I am that, thanks to you, Sandy lad. 'Twas a foine bit av a scrimmage, an' I'm owin' ye wan. Good night to ye."

"Ye've got a clear track from this," called Graham, swabbing his battered face with a piece of cotton waste drawn from one of the pockets of method. "But ye'd better not take any more cat-naps. Go on with ye, ye wild Irishman; ye're obstructin' traffic."

For twenty miles below Ten Mile Gallagher sat on his box like a man refreshed. Then the devil of sleep postponed beset him again. Once more the fireman was asleep on the coal, and to the little Irishman's bombardment of wrenches and other missiles he returned only sodden groans. Gallagher nerved himself to fight it through alone. Mile after mile of the time-killing track swung slowly to the rear, and there was not even the flick of speed to help in the grim battle.

Dawn came when the end-of-track camp was still forty miles away, but the breaking day brought no surcease of strugglings. When it came to the bitter end, when his eyelids would close involuntarily and he would wake with a start to wonder dumbly how far the 956 had come masterless, Gallagher took a chew of tobacco and began to rub the spittle into his eyes—the last resort of the sleep-tormented engineer. Like all the other expedients it sufficed for the time; but before long he was nodding again, and dreaming that a thousand devils were burning his eyes out with the points of their red-hot pitchforks.

Out of one of these nightmares he came with a yell of pain to see what figured for the moment as another nightmare. Three hundred feet ahead the track seemed to vanish for three or four rail-lengths. It was second nature to jam on the brakes and to make the sudden stop. Then he sat still and rubbed his smarting eyes and stared again. The curious hallucination persisted strangely. Fifty feet ahead of the stopped engine the glistering lines of the steel ended abruptly, beginning again a car length or two beyond. Without disturbing the sleeping Jackson, Gallagher got down and crept cautiously out to the break. It was a break. He stooped and felt the rail ends with his hands.

When he straightened up his passenger was standing beside him.

"What is it?" asked Adair. "Have we lost something?"

Gallagher waved a grimy hand at the gap.

"The track," he said. "'Twas there when I pulled me shtriving av empties out over ut lasht night. 'Tis gone now, else I'm that near dead for sleep I can naryther see nor feel straight."

Adair was calmly lighting a cigarette.

"Your senses are still in commission," he said; "there is a good-sized piece of track missing. Who sniped it, do you suppose?"

The engineer was shaking his fiery head.

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"Tis beyond me, Mither Adair. That's the deuce of it," smiled the young man. "It's beyond the train. How is your engine—pretty good on the broad jump?"

Gallagher was not past laughing. "She'll not lep that, this day. But who'd be doin' this job betune dark an' morning, d'ye think?"

"You will have to ask me something easy, I'm not up in all the little practical jokes of the country. But if I should venture a guess, I should say it was some one who didn't want me to answer the first call for breakfast at your end-of-track camp this morning. What do we do?"

Gallagher was thinking. "We passed a camp av surfaces tin mile back, and there'd be rails at Arroyo Sliding, tin mile back o' that," he said reflectively.

Adair had passed over to the river side of the line and was looking at a fresh plowing of the embankment. "The rails have been dragged down here and they are probably in the river," he announced. "If we had men and tools we might fish them out and repair damages."

"Come on, thin," cried the little Irishman, and when he ran back to climb to the footboard of the 956, Adair climbed with him.

Jackson, refreshed by his cat-naps on the coal, was sent to the rear end of the "01" to flag back, and in due time the special picked up the gang of surfacers just turning out to the day's work. An Irish foreman was in command, and to him Gallagher appealed, lucidly but not too gently. The reply was a volley of abuse and a caustic refusal to lend his men to the track-laying department.

Gallagher turned to Adair with his red-apple face wrinkling dismayfully. "Tis up to me to push that felleys' face in, Mither Adair; and what wild two nights and a day, shtandin', and wan fight wid a bully twice me size, I'm not man enough."

Adair tossed away the stump of his cigarette. "You're quite sure that is what is needed?" he queried.

"To knock a grain av sinse into that Wicklow man?" queried Gallagher. "Sure, it is." And then whispering: "But not for you, Mither Adair; he'd ate you in two bits. Lave me have a thry wid him."

But Adair was off and fronting the surely MacMorrogh foreman. "We need a dozen of your men and some tools," he said quietly. "Do we get them?"

"Not by a fistful!" retorted the surly one. "Maybe you think you're enough of a to take 'em."

"I am a better man than you are," was the eventoned rejoinder.

"Prove it, then."

Gallagher, leaning from his cab window, fully awake now, and chuckling and rubbing his hands together softly, saw the blow. It was clean-cut, swift as the lightning's flash, true to a finger's breadth, and the sound of it was as bone upon bone. At its impact the Wicklow man bounded into the air, arched his back like a bow, and pitched on his head in the ditch. When he rose up, roaring blasphemies and doubling his huge fists for the fray, the quiet voice was assailing him again. "Do we get the men and tools?"

"Not."

Again the lightning-like passes of the hands, and the Wicklow man sat down forcibly and gasped. The Italian surfacers threw aside their picks and shovels and made a ring, dancing excitedly and jeering. The big foreman, whose scepter of authority was commonly a pick-handle for the belaboring of offenders, was not loved.

"Kick-a da shin—kick-a da shin—he like-a da nigger-mans," suggested one of the Italians, but there was no need. Being safely out of range of the catapult fists, the foreman stayed there.

"Take your track gang and be damned to you!" he snarled.

Adair made a forward step and stood over him.

"Are you quite convinced that I am the better man?" he asked very gently.

"It's a trick!" growled the Wicklow man savagely. "I could get onto it in another whirl or two."

"Get up," said the gentle voice. "You'll never have a better chance to learn the trick." But the foreman had the saving grace to shun anti-climaxes.

"G'wan! Take the men, I say; all of 'em, if you like."

"Thanks," said Adair pleasantly. "We'll do it, and we'll take you, as well—to answer for their good behavior. Let me help you up," and he stooped and snapped the big one to his feet as a man would collar a reluctant boy.

"Great judgment!" gasped the foreman. "Say, Mister Cock-o-the-walk—where do you hide all that muscle?" And without waiting for an answer he piled a dozen of his men upon the engine and followed them, still muttering.

It was a partly surfaced ten miles over which the special train thundered for the third time since dawn-breaking, and Gallagher took the last wheel-turn out of the 956. None the less, the sun was reddening the western mountains when the Italians took ground at the mysterious gap. The rails were found in the stream, as Adair had predicted, and it was a work of minutes only to snake them up the embankment and to spike them lightly into place. But when Adair, for the healing of wounds, had thrust a bank-note into the hand of the Wicklow man, and the special once more on its unhindered way westward, the sun had fairly topped the eastern range, and John-son, the porter of the "01," was shouting across the rocketing tender that breakfast was served.

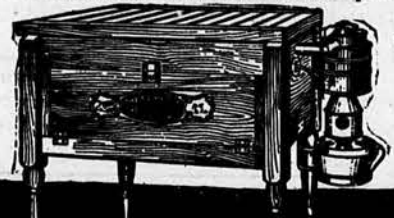
The young man in the London-cut clothes might have climbed back to the

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car over the coal; or Gallagher would have stopped for him. But he elected to stay in the cab, and he was still there, hanging from the open window on Jackson's side, when the one-car special woke the echoes with its whistle, clattered over the switches at Horse Creek, and came to a stand opposite the MacMorroghs' commissary.

It was Brian MacMorrogh who came across the tracks to greet Adair, and since this was their first meeting, he made the mistake of his life in calling the young director by name.

"The top of the morning to you, Mither Adair. Is it Mither Colbrith you'd be looking for?"

"It is," said Adair shortly, not failing to remark that the barrel-bodied, black-bearded man seemed to recognize and to be expecting him.

"Tis two hours gone they all are," was the oily-voiced explanation. "Up the grade and over to Copah. But they'll be back to-morrow, Heaven savin' them, and we'll make you comfortable here—as comfortable as we can."

"That will be quickly done," said Adair, swinging down from the engine step. "Just give me a horse and tell me which way they have gone, and I'll overtake them."

But here the barrel-bodied one spread his hands helplessly.

"Tis just our luck!" he protested, in the keenest self-reproach. "There isn't a horse or a mule in camp that you could get a mile an hour out of. In fact, I'm thinking there isn't anny horses at all!"

(Continued next week.)

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SILVER WYANDOTTES FOR SALE; AS good as the best; eggs \$2 per setting; incubator eggs, \$5 per 100. M. B. Caldwell, Broughton, Kan.

LANGSHANS.

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

BLACK LANGSHAN COCKERELS FROM big scoring stock; also eggs. Write me for prices. Mrs. D. A. Swank, Blue Mound, Kan.

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

BLACK LANGSHAN CKLS.—PRICES reasonable; eggs, \$1 for 15; \$3 for 50; baby chicks 15¢ each. W. S. L. Davis, Pleasant View Yards, Nickerson, Kan.

CONYERS' BLACK LANGSHANS HAVE proven themselves the best in the Southeast; Kansas Great Layers. A few choice ckls. and pullets still on hand. Write for prices on eggs and stock.

H. CONYERS,

702 W. Kansas Ave., Pittsburg, Kan.

HAYNES' LONGVIEW FARM STRAIN of Black Langshans; prize winners at Topeka, Wichita, Leavenworth; all pens are winners; hatch your own winners. One grand special pen \$10 per 15; four grand pens \$2.50 for 15; range \$1.25 per 15. Best matings in America. Catalogue free. Mrs. M. F. Haynes, Grantville, Kan.

LEGHORNS.

FOR SALE—SINGLE COMB WHITE Leghorn eggs; \$1 per 15; \$5 per 100. Address Mrs. N. J. Alvey, Meriden, Kan.

PRIZE WINNING ROSE COMB BROWN Leghorns for sale; egg circular free. Write your wants. Mrs. John Holzhey, Bendena, Kan.

PURE BRED ROSE COMB WHITE Leghorn eggs from prize winners; \$1 per 15, \$5 per 100; panned eggs \$2 per 15. Jennie Martin, Frankfort, Kansas.

GALVA POULTRY YARDS—R. C. W. Leghorns and White Wyandotte hens and cockerels for sale; eggs by the setting or hundred. John Ditch, Prop., Galva, Kan.

MUCH SHOWN—NEVER DEFEATED. S. C. White Leghorns, White H. turkeys, Indian Runner ducks. Males and eggs for sale.

MARY CULVER, R. 1, King City, Mo.

STINE'S BUFF LEGHORNS WON 1ST chl., 1st pen at Topeka, Jan. 2 to 7, 1911; unexcelled as layers; stock eggs. Write for mating list. Mrs. H. A. Stine, R. 3, Holton, Kan.

MY STANDARD BRED S. C. BUFF LEGHORNS won at Newton 1st cock, 1st and 2d cockerel, 1st and 2d hen, 1st, 2d, 3d and 4th pullet, 1st pen. Stock for sale—cockerels \$1 and up. Eggs \$2.50 for 15; \$5 for 100. S. Perkins, 301 E. First street, Newton, Kan.

S. C. BROWN LEGHORNS—HIGH QUALITY utility flock; excellent all-year-around layers. Don't fail to order enough to fill your incubator. Eggs \$1.25 per 15; \$5 per 100. M. E. Wilson, 17th and Hydraulic ave., Wichita, Kan.

EGGS FROM LAYING STRAIN R. C. R. Leghorns 15 per \$1; 100 per \$6. Mrs. J. R. Wright, Wilmore, Kan.

MOORE & MOORE, SPECIALISTS—Single Comb Brown Leghorn and Buff Rocks, separate farms. Write for circular. Osa City, Kan., Route No. 6.

S. C. WHITE, BROWN AND BUFF LEGHORNS and R. C. Reds. Eggs, Chicks, some good White Leghorn ckls. at bargain prices. Prosperity Poultry Farm, R. 2, Barnes, Kan.

EGGS—S. C. WHITE LEGHORNS; BRED for laying; choice eggs for hatching \$1.50 per 15, \$7 per 100; quick delivery. Model Poultry Plant, 13th and S. Uni. Place, Lincoln, Neb.

SWERDFEGER'S S. C. BROWN LEGHORNS—Twenty years they have WON the majority of premiums offered at our largest and best shows. WE ARE BREEDERS and know how to produce the BEST. Write for mating list. H. P. Swerdfeger, 1144 Forest ave., Wichita, Kan.

FREE RANGE SINGLE COMB BROWN Leghorn eggs \$1 for 15; \$1.50 for 30 or 40 a hundred. Clarence Wilkinson, Hewling, Chautauqua Co., Kansas.

"IVYWOOD" BROWN LEGHORNS LAY all winter; chicks run to pullets; book orders early; \$5 for 100 from range stock. Write for prices. R. O. Davis, Merriam, Kan.

RHODE ISLAND REDS.

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

PURE SINGLE COMB RED COCKERELS; 15 eggs, \$1. Belle Tyler, Haven, Kan.

SINGLE COMB R. I. RED COCKERELS; \$1; eggs \$1 for 15. Albert Coe, Yates Center, Kansas.

UTILITY SINGLE COMB RHODE ISLAND Red eggs from range \$1 per 30, \$3 per 100. Mrs. Rosa Janzen, Geneseo, Kan.

ROSE COMB RHODE ISLAND REDS. Utility pens: 15, \$1; 100, \$4; eggs from high scoring pens, \$1.50, \$2, \$3 per 15. Mrs. R. F. Wagle, Winfield, Kan.

PREMIUM WINNING REDS; BOTH combs; eggs and cockerels; buy eggs from premium winners. R. Steele, R. 7, Topeka, Kan.

SINGLE COMB R. I. REDS OF QUALITY, good color, excellent layers. Write for egg prices. Ellis F. Brown, 310 S. 11th, Independence, Kan.

R. C. R. I. RED EGGS; CHAMPION Kansas winners; scored cockerels from 90 to 94% by Judge Lamb, from \$2 to \$10; 100 free. Frank H. Postler, Topeka, Kan.

ROSE COMB R. I. RED EGGS FOR hatching; fine winter laying strain; \$1.50 for 15; book orders early. R. T. Roby, 1540 Harrison, Topeka, Kan.

ROSE AND SINGLE COMB RHODE ISLAND Reds. As good as there are in the East or West. Have been breeding them 11 years. First prize winners at the leading shows and fairs. Ten matings to furnish eggs for hatching. Write for free illustrated mating list. H. A. Sibley, Lawrence, Kan.

ANCONAS.

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

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

TURKEYS.

FOR SALE—M. B. TURKEY TOMS FROM stock scoring 95 to 97 points. Vira Bailey, Kinsley, Kan.

WHITE HOLLAND TURKEYS; YOUNG toms \$5. Mrs. F. W. Kingsley, Cheyenne, Wyo., Colo.

FINE, LARGE WHITE HOLLAND TURKEY toms for sale at \$5 each. Address F. E. Wentz, Burlington, Kan.

A FEW PURE MAMMOTH BROWN young toms; prize winning stock; closing out prices. L. M. Jamison, Sterling, Kan.

SUNNY DELL FARM—BOURBON RED turkeys; extra fine in color; eggs \$2.50 per 15. S. C. R. I. Reds, special matings that are red, \$1 per 15; \$2.50 per 50. S. C. R. Leghorns, extra fine, bred to lay; 8 years experience; \$1 per 15, \$4 per 100. Mrs. I. Wooddall, Fall River, Kan.

SEVERAL BREEDS.

INDIAN RUNNER DUCK EGGS \$1 PER 14. Myrtle Casteel, Anthony, Kan.

S. C. BLACK MINORCAS EGGS—15 PER \$1.50. T. F. Pine, Lawrence, Kan.

SINGLE COMB BLACK MINORCAS—1911 breeding pens are hard to beat; large, vigorous, standard weight birds. \$1.50, \$5, \$7 per 100. Fred Kelm, Seneca, Kan.

BLUE ANDALUSIAN—THE PRE-ferred egg layers; large size, beautiful color; eggs from high scoring pens; send for mating list. George W. King, 419 East L. St., Independence, Kan.

CHOICE LIGHT BRAHMA COCKERELS \$2 each; choice setting eggs. Mrs. A. A. Frickett, Wamego, Kan.

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

EGGS—EGGS FROM THOROUGHbred Toulouse and Emden geese. Turkeys, Indian Runners, Pekins, Muscovy and other breeds. Runners, ducks, Pearl and Barred Rocks, Bantams, Buff, White and Barred Leghorns, S. S. Hamburgs, Houdans, Black Langshans, Cornish, Indian Game, Partridge, Red Buff Orpingtons, Rhode Island Reds, White and Silver Laced Wyandottes, White and Single Comb Brown and White Leghorns. Fancy pigeons, dogs, rabbits, poultry eggs, 15 for \$1; eggs by the 100 reasonable. Write for free circular. A. S. Bruen, Platte Center, Neb.

Readers Market Place

CLASSIFIED ADVERTISING 3 CENTS A WORD

HELP WANTED.

GOVERNMENT WANTS HELP—WRITE immediately for list of coming examinations in your vicinity. Franklin Institute, Dept. 90, Rochester, N. Y.

WANTED—LOCAL MEN TO TAKE ORDERS for nursery stock in Kan., Mo., Okla., Ill., Neb. Experience unnecessary. Cash weekly. National Nurseries, Lawrence, Kan.

GOVERNMENT FARMERS WANTED— Salary \$75. Examinations everywhere April 12. Write today for particulars. Osmont, Dept. 44F, St. Louis.

YOUNG MAN, AGE 19, HAVING HAD 3 summers' experience, wants permanent position on general farm. Strong, without bad habits. Address Raymond M. Hensel, 5207 Kimbark ave., Chicago, Ill.

FREE ILLUSTRATED BOOK TELLS about over 36,000 protected positions in U. S. service. More than 40,000 vacancies every year. There is a big chance here for you, sure and generous pay, lifetime employment. Easy to get. Just ask for booklet A809. No obligation. Earl Hopkins, Washington, D. C.

SOUND MEN 21 TO 40 YEARS OLD wanted at once for electric railway motor-men and conductors; \$80 to \$100 a month; no experience necessary; fine opportunity; no strike; write immediately for application blank. Address H. C. F., care Kansas Farmer.

MEN WANTED—AGE 18-25, FOR FIRE-men \$100 monthly, and brakemen \$80 on all railroads; experience unnecessary; no strike. Positions guaranteed competent men. Promotion. Railroad Employing Headquarters—over 400 men sent to positions monthly. State age; send stamp. Railway Association, Dept. 514, 227 Monroe street, Brooklyn, N. Y.

WANTED—A CAPABLE, HUSTLING man in every county in Kansas, who owns his own rig, and who will spend a part or all of his time in securing subscriptions for KANSAS FARMER on the most liberal subscription proposition ever offered to anyone. Address Circulating Manager, Kansas Farmer, Topeka, Kan.

WANTED—MARRIED MAN FOR STOCK farm; want live, honest, capable, Christian man who can take charge of work alone at all times; we furnish small 3-room house, garden, chicken house, milk and pay \$30 per month; steady position, if satisfactory, and chance for better pay. Charles Stebbins, Devon, Kan.

WANTED—A SINGLE MAN TO WORK on a farm; must have experience enough and honor enough to go ahead with all kinds of farm work alone and take charge of other men when necessary; usually will be required to work under a foreman's direction; pay fair for right kind of a man. Address Willard P. Holmes, New England Building, Kansas City, Mo., or Parkville, Mo.

LOCAL REPRESENTATIVE WANTED. Splendid income assured right man to act as our representative after learning our business thoroughly by mail. Former experience unnecessary. All we require is honesty, ability, ambition and willingness to learn a lucrative business. No soliciting or traveling. This is an exceptional opportunity for a man in your section to get into a big paying business without capital and become independent for life. Write at once for full particulars. Address E. R. Marden, Pres. The National Co-operative Real Estate Company, 1473 Marden Bldg., Washington, D. C.

REAL ESTATE.

BUY OR TRADE WITH US. SEND FOR list. Bersie Agency, Eldorado, Kan.

WANT FARM IN EXCHANGE FOR CITY property; rent \$600 year. Other trades. Real Estate Exchange, Coffeyville, Kan.

WE SELL OR TRADE ANYTHING ANY-where. The Realty Exchange Co., Newton, Kan.

\$8,500 BUYS 320 ACRES FRONTIER country; 200 cultivated; buildings. Hans Hansen, Box Elder, Neb.

WRITE GEO. E. BROWN, HASTINGS, Neb., for large exchange list, mdec, stocks and farms.

FARM FOR SALE—470 ACRES FINE bottom land near Wichita, Kan. Address Owner, M. M. Daily, Peck, Kan.

WILL TRADE A GOOD FARM FOR stallions, jacks or other horses. Box 42, Formosa, Kan.

CENTRAL MINNESOTA—100 IMPROVED farms, low prices, easy terms. "Good Title Always." Write for list. Mention this paper. C. D. Baker, Fergus Falls, Minn.

FARM LOANS MADE IN ANY AMOUNT from \$500 up, at lowest rates and on most favorable terms. Betzer Realty & Loan Co., Columbian Bldg., Topeka, Kan.

WANTED TO EXCHANGE—LINCOLN, Neb., income property and some cash for an improved farm. Write W. G. M., care Kansas Farmer.

IF YOU HAVE A FARM, STOCK OF merchandise or automobile to sell or exchange, list it with Spears Realty Co., Ottawa, Kan., for quick sale.

HALF SECTION OF FINE LAND IN Sherman county, Kansas, for sale on very easy terms; 3 1/2 miles from good market town on main line of Rock Island. Write Wade Warner, Goodland, Kan.

OREGON INFORMATION—FOR AUTH-entic detailed information concerning fruit growing, dairying, general farming, manufacturing and business opportunities in any part of Oregon, address Portland Commercial Club, Room 642, Portland, Ore.

TEXAS GULF COAST COUNTRY—4,000 acres, formerly part of Famous Taft Ranch, at county seat, Sinton, within 4 miles of Bay. Soil and climate unsurpassed. Heart of rain belt; plenty good water; depot within 20 minutes' drive of farthest point. Land produces \$100 to \$300 per acre. For particulars write J. Y. Conn, Box 46, Cln., O. Good agents wanted.

EGGS.

100 KINDS EGGS, POULTRY, FIBERONS, pheasants, colliers, Jerseys registered, irrigated Alberta land, rent shares. Pauly's Pheasantry, Kahoka, Mo.

DOGS.

FOR SALE—A LARGE FINE GRAY-hound; very fast. Len Essex Rockford, Ia.

COLLIE PUPS FOR SALE FROM NAT-ural workers; best of breeding Circular free. Glen Tana Collie Kennels, Tekoa, Wash.

SCOTCH COLLIES—PUPS AND YOUNG dogs from the best blood in Scotland and America now for sale. All of my brood bitches and stud dogs are registered; well trained and natural workers. Emporia Kennels, Emporia, Kan. W. H. Richard.

SEEDS AND PLANTS.

MACARONI SEED WHEAT \$1.25 PER bushel. M. G. Blackman, Hoxie, Kan.

PURE HIGH BRED BROOM-CORN SEED. Fanning Seed Co., Oakland, Ill.

SEED CORN—HILDRETH YELLOW Dent; originator, breeder, grower, C. E. Hildreth, Almont, Kansas.

ALFALFA SEED, SACKED, DELIV-ered railroad \$10 bushel. J. W. Ashcraft, Protection, Kan.

PURE BRED RED TEXAS SEED OATS; heavy, re-cleaned, sacked; 90c per bushel. A. Rahn, Florence, Kan.

FOR SALE—RED KAFIR \$1.20 PER 100 lbs. sacked. Wheeler & Baldwin, Delphos, Kan.

SEED CORN—BUY DIRECT FROM THE breeder; carefully selected; high grade Boone Co. White. Jesse D. May, Route 2, Manhattan, Kan.

250 STRAWBERRY PLANTS \$1—THREE best varieties, Dunlap included; nursery stock; wholesale list. John F. Dayton, Waukon, Iowa.

SEED CORN—HILDRETH HYBRID BRED Yellow Dent won sweepstakes at county exhibit; other varieties. Best adapted for Kansas and Oklahoma. Prices reasonable. C. D. Resler, R. 4, Chanute, Kan.

SPELTZ (EMMER) GROWN FROM northern seed; best ever raised; Boone Co. and Hiawatha Dent seed corn. If you buy of me and are not satisfied with your purchase, I refund your money. E. E. Hazen, Hiawatha, Kan.

SEED CORN—HAYNES' IMPROVED Boone County White, pure bred, tipped, hand shelled, fanned, graded, hand picked, highest yielding strain. Two bushels or more \$1.50 per bushel. Catalogue free. J. F. Haynes, Farmer Seed Corn Grower, Grantville, Kan.

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

COW-PEAS; CLEAN, NEW CROP. V-arieties: Crowder, Whippoorwill, Gray Goose. My experience with cow-peas making \$30 to \$67 per acre free with 2 bu. orders or more. Price \$2.90 per bushel, my station. D. J. Yoder, Haven, Kan.

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

A BARGAIN IN ROSE BUSHES—UPON receipt of only \$1.00, we will deliver to any address, prepaid, six hardy, vigorous rose bushes, guaranteed with proper planting and care to bloom this season. This wonderful collection consists of a Crimson Rambler, a beautiful white rose, a dark red rose, a yellow rose, the new double red rose named after President Taft, and the queen of all roses, the "LaFrance," a large double pink rose. These plants are guaranteed to reach you in good condition and to give satisfaction. Address Rose Department, 625 Jackson St., Topeka, Kan.

FOR SALE—BEARLESS BARLEY AND White Pearl corn; barley re-cleaned; corn selected, shelled and graded; both put in new bags; f. o. b. cars here at \$1.10 per bu. in two or more bu. lots; bags free; both of above of my own raising; can be returned if not satisfactory and money will be refunded. A. F. Huse, Manhattan, Kan.

HORSES AND MULES.

FOR SALE—IMPORTED PERCHERON stallions. Address Box 213, Holton, Kan.

SHETLAND PONIES—WRITE FOR price list. C. R. Clemmons, Waldo, Kan.

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

HANDSOME BLUE BLOODED, STAND-ard, registered, Wilkes-McGregor stallion; also good jack to sell or exchange for mares or real estate. A. H. Bennett, Topeka, Kan.

FOR SALE—9 REGISTERED PERCH-eron stallions, 2 to 6 years, black and bays; also a few mares in foal; priced to sell. J. H. & A. C. Tangeman, Newton, Kan.

FOR SALE OR TRADE—BLACK PERCH-eron stallion 5 years, weight 1800; sure; black jack 7 years; 15 hands 1 inch. M. C. Pollard, Carbondale, Kan.

FOR SALE—6-YEAR-OLD RECORDED Clydesdale stallion; bright bay; sure and sure foal getter; sound and gentle; can't use longer to advantage and will sell cheap. I. T. Dunn, Formosa, Kan.

STALLION FOR SALE—ONE BLACK Percheron, registered in the Percheron society of America. One registered English Shire. Both rising three good heavy boned colts. James Auld, Wakefield, Clay Co., Kansas.

CATTLE.

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

FOR SALE—DR. SHIRLEY, FORMERLY of Hiawatha, Kan., says he has one of those fine bull calves left; it was dropped Feb. 7, 1911; is a beauty; out of a cow that will make 500 lbs. of butter a year; the sire's dam has a butter record of 22 lbs. and 10 oz. in seven days; solid color. I will price very low if taken soon. Dr. W. M. Shirley, 1734 Welton St., Denver, Colo.

HOGS.

POLAND CHINA BRED GILTS; REGIS-tered; farmers' prices. John Ziller, Hiawatha, Kan.

BEES.

BEES—STRONG COLONIES IN TEN-frame hives \$4.50. Special prices on quantities. O. A. Keene, Topeka, Kan.

HAY.

FOR SALE—100 TONS ALFALFA HAY \$11 per ton f. o. b. cars at Valley Center, Kan. S. I. Perlin.

MISCELLANEOUS.

USE METAL WIRE FENCE SIGNS; they get results. Write Ottawa Metal Sign Co., Ottawa, Kan.

WANTED—POSITION AS TRACTION OR steam roller engineer; competent and reliable. Joe Armstrong, Derita, N. C.

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

SILOS.

FOR SALE—100 TON SILO; NEARLY new; self-feed; small cutter and 6-horse-sweep power; \$250; or take young heavy draft mare or young fillies. Also very handsome, well bred, registered yearling Jersey bull ready for service; \$75. Sayda Polo Jersey Farm, Parsons, Kan.

CHICK FEED.

CHICK-O FOR BABY CHICKS, A BAL-anced ration of seeds and cracked grains. Prices reasonable. Write D. O. Coe, Topeka.

PRINTING.

"LIVE STOCK CATALOGS IN A HURRY"—Charley Manley, publisher, Junction City, Kan.

PURE BRED POULTRY

BUFF ORPINGTONS.

S. C. BUFF ORPINGTON EGGS 75c PER 15. M. C. Sleeth, Farlington, Kan.

S. C. BUFF ORPINGTON COCKERELS \$1.50; 15 eggs \$1; 50, \$2.50; 100, \$5. Mrs. J. A. Young, Wakefield, Kan.

S. C. BUFF ORPINGTON EGGS FOR sale; \$1 per 15 or \$5 per 100. Mrs. S. T. White, Roca, Kan.

S. C. BUFF ORPINGTON EGGS \$1.50 per 15; \$6 per 100. Mrs. Ella Sherburnaw, Fredonia, Kan.

PLYMOUTH ROCKS.

WHITE ROCK EGGS—\$1.00 FOR 15 OR \$5.00 per hundred. W. B. Henson, Paola, Kan.

BUFF ROCKS—EGGS; 15, \$1; 45, \$2.50; 100, \$4; from pen, \$3. W. Hildans, Culver, Kan.

FINE B. ROCKS—EGGS FOR HATCH-ing. Mrs. Lloyd Clark, Hazelton, Kan.

BUFF ROCKS, FARM RAISED. EGGS: 15, \$1; 100, \$4. Mary Conner, Cheney, Kan.

LEGHORNS.

THOROUGHbred ROSE COMB BROWN Leghorn eggs 16, \$1; 32, \$1.50; 100, \$4. Frank Seaman, Cedarvale, Kan.

S. C. R. C. BROWN LEGHORN EGGS—Fine laying strain \$4 per 100. S. C. White Leghorn eggs from my 200 egg strain and score 92 1/2 to 94; eggs \$4 per 100. Plainview Poultry Farm, Lebo, Kan.

S. C. W. LEGHORN COCKERELS \$1.50 to \$3; eggs \$1 per setting, \$5 per 100. Indian Runner ducks \$3; drakes \$1.50 to \$5; eggs \$1.50 per setting; all from prize winning birds. Elenora Fruit and Poultry Farm, Centralia, Kan.

RHODE ISLAND REDS.

ROSE COMB REDS EXCLUSIVELY—30 eggs, \$1.75; 100, \$4. Alfred Young, Wakefield, Kan.

EGGS FOR HATCHING FROM BEAN, Tuttle, Tompkins, Tracey strains Rhode Island Reds. Winners at the Largest Western Shows. PRICES RIGHT. QUALITY NONE BETTER. A. M. Butler, 1561 Palsade St., Wichita, Kan.

WYANDOTTES.

HIGH CLASS SILVER LACED WYAN-dottes; eggs from two best pens of Silvers in the business. Eggs to hatch prize winners. Frank Faha, Jr., Box 660, Dyersville, Iowa.

WHITE WYANDOTTE EGGS, \$4 FOR 100; \$1 for 200; baby chicks 15c each. Mrs. H. G. Stewart, R. 1, Tampa, Kan.

ORPINGTONS.

WHITE ORPINGTON PULLETS; HIGH scoring birds; eggs for hatching from fine matings. Will Parsons, Lawrence, Kan.

LANGSHANS.

BLACK LANGSHAN EGGS \$1.50 PER 15, H. C. Cohoe, R. 2, Buffalo, Kan.

WORTH KNOWING.

Quite a number of poultry breeders are learning, as others have learned in the past, that they make more money on their eggs and stock for sale, by advertising them in KANSAS FARMER.

It takes only a small amount of money to run a small ad in these poultry columns. Results from these small ads show that it is the cheapest, easiest and quickest way to find buying-buyers.

Here are some recent reports:

J. C. David, R. 2, Topeka, Kan., ran a 45c ad and found sales for 28 cockerels.

Mrs. E. C. Wagner, Route 2, Holton, Kan., writes:

"I consider Kansas Farmer the best advertising medium I have ever tried. I began getting inquiries immediately after my first ad, and continue to get them every day."

Mrs. H. Buchanan, Abilene, Kan., writes:

"Please change my advertisement, 'Cockerels \$1.50,' to 'Cockerels all sold.' Otherwise print the advertisement as it now reads. I was overwhelmed with orders. That was just a trial advertisement. I shall keep on using Kansas Farmer whenever I have anything to sell."

Do not letters like those above prove that KANSAS FARMER's poultry ads are closely read, and that the readers are ready cash buyers?

What is it costing you to sell your surplus stock and eggs-for-hatching? Do you want to "sell out" more quickly, and for a less cost?

Write for our special poultry advertising rates, now.

KANSAS FARMER, TOPEKA, KAN.

TEN WEEKS FOR TEN CENTS.

KANSAS FARMER will be mailed to any address on trial ten weeks for ten cents. We must depend upon our subscribers to make this known to their friends. To any lady reader who will send for five trial subscriptions at this price we will send free one of our premium cook books. This cook book contains 320 pages, every other page being left blank for the housewife to fill in with choice recipes of her own. You will appreciate this book more than any cook book you have ever had. Address

Subscription Dept. Kansas Farmer, Topeka, Kan.

FIELD NOTES.

To breed good Barred Rock chickens is something worth the efforts of any poultry man. Some succeed at it better than others. One of the better successful breeders of this fine breed is G. E. Dyksterhuis, Holly, Colo. His ad appears in this paper. Look it up, under Barred Rocks, and write him for his descriptive lists. Kindly mention this paper when writing.

Catalpa Trees From Winfield.

Here are some letters written to the Winfield Nursery Co., Winfield, Kan., by men who bought catalpa trees from that company. These show it pays to deal with that firm: J. W. Johnson, Geneseo, Kan., saw our advertisement last winter in Kansas Farmer and bought catalpas of us. In writing to Kansas Farmer, he states: "I have set out the 18 acres of catalpas about which I wrote you in January, and feel that I have done some good to commemorate the visit of the Halley comet. I used 1 year old seedlings bought of the Winfield Nursery Company, through their ad which I saw in Kansas Farmer. The trees were the finest seedlings I ever saw, and business with these people was of the most agreeable nature. I feel grateful to them for their good treatment, and as they had their ad in your paper, I thought you might like to know my success." "Nearly every one of the 5,000 trees you sent me less than a month ago is growing and looking fine. This is especially gratifying, as few had any faith in such late planting. I take great pride in showing them to the doubters. If it were not so late, I would plant as many more, or double the number. If all goes well you may look for a large order from me next spring, as your catalpas were recommended to me both by the National Forestry Department and the Kansas Agricultural College."—(Signed) Mrs. May E. Hosa, Medicine Lodge, June 4, 1910. "The catalpas I got from you last year were set out on low ground and were frozen down twice and completely destroyed by water—in spite of all this they made a very respectable growth. I am working on a canal to straighten the course of a stream through this land. If I get it completed I want 1,000 more seedlings. Please send me your free bulletin of information as mentioned in Kansas Farmer."—(Signed) Henry Murr, Tonganoxie, Kan., Jan. 14, 1911. "I consider the planting of Catalpa Speciosa trees, especially on sub-irrigated land, one of the best investments that can be made. Had I planted when I came to this country a quarter section of my land to them, they would have paid better than all crops I have ever raised on it. Now the catalpa I did plant are worth 10 times the value of the land on which they grew and are the most paying crop I ever raised."—(Signed) W. L. Brown, Kingman, Kan., Feb. 22, 1910.

BARGAINS IN LANDS

COME TO FORD COUNTY AND GET RICH

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

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

WANTED TO BORROW

\$20,000, 6 per cent semi-annual or quarterly interest. Security: Large and beautiful business building, permanently occupied, in the business center of Topeka. Valuation \$50,000. No commissions. Inquire of

POLK, RADGES & CO.,
Topeka, Kansas.

PARTNER WANTED in real estate business. A. F. Tene Wilson, Jr., & Co., 508 Kansas ave., Topeka, Kan.

80 ACRES, 1/2 cultivated, close Ry. market, 7 room house, good barn, water, fencing, \$2500. Foster Bros., Independence, Kan.

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

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

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

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

SOLD THE LAND ADVT.—Week of Feb. 4 and the one of Feb. 11, and here's one for this week: 160 acres all in good grass, rich soil, good water, in wheat belt, 1/2 mile of good school, well located, make a nice home, 6 miles of Spearville. \$3,000; \$1,500 cash and good terms on balance. Send for big list. Address STINSON & SHELTON, Spearville, Kan.

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

LIVE AGENT WANTED

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

FRIZELL & ELY,
Larned, Kansas.

160 ACRES level second bottom 4 miles from county seat, 100 acres under plow, 15 acres alfalfa, running water fed by spring, 5 room house, barn for 6 horses, large hay shed and other good improvements; good bearing orchard. Price \$65 per acre; easy terms. Joseph D. Ryan, Abilene, Kan.

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

ANDERSON COUNTY—100 acres, 60 acres in cultivation, balance pasture and mowland, fine soil, no rock. A new 9-room 2-story house, cement cellar and walks. Good barn and other improvements; half mile to R. R. town. \$65 per acre. A snap. Write for full description. GEORGE W. ILER & SON, Garnett, Kan.

POULTRY RANCH FOR SALE.

One of the best poultry ranches in the state. Two acres adjoining Washburn college campus, 9-room house, cellar, cistern, well water, barn. Best poultry house in county. Fruit and ornamental trees. Price \$4,000, half on time if desired. No trades. POULTRYMAN, Kansas Farmer Office.

100—CHOICE DICKINSON AND CLAY CO. FARMS—100

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

WALLACE COUNTY

320 acres, raw land. 4 miles south of Sharon Springs, Kansas. \$10 per acre. Address Box 15, R. F. D. 1, Bushton, Kan.

THE BEST TOWN TO LIVE IN.

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

SECRETARY of the COMMERCIAL CLUB,
Topeka, Kansas.

FOR SALE.

225 a. Verdigris bottom, big house, phone, 2 fine wells, 2 big barns, etc., all in cult. and meadow except few acres fine timber; have produced 80 bu. corn, 40 bu. wheat and 8 tons of alfalfa per acre; in oil and gas belt and unleased; 3 miles good town and 9 miles to county seat; an estate; no agent's profit. Price \$65 acre. You can't buy better land at any price; will soon double in value.

LOOK BOX 656, Fredonia, Kansas.

SAY Buy a farm or build an agency.

BUCKEYE AGENCY, Agricola, Kan.

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

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

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

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

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

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

EASTERN KANSAS—We have farms \$45 to \$65 per acre; possession if sold by March 15th.

RICHMOND LAND CO., Richmond, Kan.

NESS COUNTY, KANSAS.

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

J. G. COLLINS, Ness City, Kansas.

EXCHANGE.

We have just completed a contract whereby we have exclusive agency for many desirable farms in Decatur county, Kansas. All smooth, good wheat land, at desirable prices. Can be traded for eastern Kansas land. If interested in securing lands in western Kansas at prices so low you can afford to hold for advance in value, here is your opportunity.

GEO. M. NOBLE, JR.,
With Geo. M. Noble & Co.,
435 Kansas Ave., Topeka, Kansas.

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

140 ACRES JOHNSON CO., KAN.

Every foot tillable; 45 acres timothy and clover, 10 acres in wheat, 30 acres English blue grass; never failing spring; close to school; only 2 1/2 miles to railroad and 33 miles to Kansas City.

Nothing finer in Eastern Kansas. Immediate possession. Price \$100.00 per acre. C. H. CHANEY, Spring Hill, Kansas.

EASTERN KANSAS FARM BARGAINS. 80 acres, 2 miles from Osage City, 40 acres under cultivation, 1 acre orchard, balance native grass, 5 room house, good cellar, barn for 5 horses with loft, corn crib, 2 hen houses, and other out buildings. Plenty of good water, close to school, R. F. D. and phone, price \$4,000.

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

FOR SALE—193 a., 6 mi. Garnett, 3 mi. Haskell, on Mo. Pac. R. R., 120 a. valley and slope land in cult., balance rough pasture with limestone rock on 1-3 of it, well fenced and cross fenced, new 6 r. house; splendid barn, 32x42; 2 good wells; family orchard. A snap at \$5,500. New list free. SEWELL LAND CO., Garnett, Kan.

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

CAN YOU BEAT THIS?

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

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

YOU CAN'T BEAT IT.

160 acres, level, sub-irrigated land, fenced, 100 a. in wheat, 1/2 goes; best in county; 66 mow land; all can be farmed; half mile to school; 3 miles to trading point; on R. F. D. and phone line; first class for investment or a home. Price \$8,000; terms. All new land. Write

BROWN, GRANT & WALTER,
Kingman, Kansas.

GRASS LAND FOR SALE

\$20 a. pasture, 7 miles of Eskridge, well fenced, fine water, all tillable except 20 a. Price \$9,000; terms. Also 640 a., 3 miles of Eskridge; fine pasture. Only \$24.

JOE RADCLIFF, WITH

RODGERS, DAVIS & CO.,
110 W. 6th St., Topeka.

FOR TRADE

80 acres, 4 miles of Garnett, Kan., 70 acres in cult., 6 room house, barn, cribs. Price \$5,000; mortgage \$1,300. Wants grocery or gen. mds.

315 acres, 5 miles of Bush City. Price \$16,000; mortgage \$5,600. Wants small farm in northeast Kansas.

SPOHN BROS., Garnett, Kansas.

ONE-TENTH - CASH - BALANCE EASY

Business and residence lots in Plains \$12.50 to \$50. Rapidly growing city in southwestern Kansas. Population should double in a year. Modern improvements, electric lights, telephones, cement walks, main line railway, etc. Buy now and get benefit of early spring advance in price. Send for plat today and get early choice.

JOHN W. BAUGHMAN,
Plains, Kansas.

CHEAP ENOUGH

No. 1021—320 acres level land five miles Ness City; 300 acres cultivation, mostly in crop; plenty fine water; no buildings; in good neighborhood and would make ideal home farm. For a short time only \$21 per acre.

NINER BROTHERS, Ness City, Kansas.

POSSESSION ANY TIME.

160 acres, all good alfalfa and corn land. 40 acres native pasture, some alfalfa, fenced hog tight, balance of land in a high state of cultivation, large fine orchard, good 7-room house, large bank barn and other outbuildings, located 5 miles from Union Stock Yards in Wichita, Kan.; R. F. D. and phone. This is a fine farm and home. Price \$15,500. Terms.

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

FINE HOME, 48 a., one mile of this city, about 38 a. now in cultivation, bal. pasture, 6 room house, new barn 34x60 and hay loft; two wells and mill and other outbuildings; good orchard and all second bottom land. Priced to sell at \$5,500 cash. E. F. Dewey, Blue Rapids, Kan.

ARKANSAS LAND.

MISSISSIPPI COUNTY, ARK., LOCATED in the great St. Francis Valley, the most fertile and productive land in the world; produces abundantly, corn, cotton, alfalfa and red clover and pays a cash rent of 10 per cent on the investment; descriptive booklet mailed free on application. The Blytheville Realty Co., Blytheville Ark.

ARKANSAS FARM—Nice smooth land with good soil \$5 to \$15 acre. Hundreds of bargains. Homeseekers' Guide mailed free. State map 15c. Moore, Searcy, Ark.

OKLAHOMA LAND

GET A HOME.

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

BATTEN REALTY CO.,
Medford, Oklahoma.

ALFALFA AND CORN.

BEST FARM in the FAMOUS BERLIN VALLEY

FORCED TO SELL AT ONCE. 200 acres, 1 mile town; center of famous Berlin Valley; 170 cultivation, every acre best dark, rich, level valley land; not a foot of bad land; fine alfalfa field; best alfalfa section of the state; improvements fair; sub-irrigated soft water 8 to 12 feet; phone, mail, graded schools; all churches; splendid community; dark, rich, loam soil; best farm in county; all level; description guaranteed. Forced to sell, \$35 an acre; name your own terms.

J. F. WINTERS, Owner, Elk City, Okla.

KIOWA COUNTY, COLORADO,

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

TEXAS LAND

LOWER PECOS VALLEY IRRIGATED LAND

In West Texas is absolutely the best location for safe and profitable investment in America. 40 acres will provide an ideal home and a yearly income of \$3000 to \$5000. Development has only fairly started and present values will double and treble in price within two years. We own or control the sale of the best dependable irrigated lands which we can sell in tracts to suit at from \$50 to \$100 per acre, water rights fully paid, on easy terms, or we can supply sections of artesian or shallow pumping wells at \$5 to \$10 per acre. For productivity, and all the year climate the Pecos Valley is unsurpassed. Let us know your wants and we will supply detailed information. Address

THE HEATH COMPANY,
100 West Seventh St., Topeka, Kan.

The Farmer's Son's Great Opportunity

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

Now's the Time

not a year from now, when land will be higher. The profits secured from the abundant crops of Wheat, Oats and Barley, as well as cattle raising, are causing a steady advance in price. Government returns show that the number of settlers in Western Canada from the U.S. was 60 per cent larger in 1910 than the previous year.

Many farmers have paid for their land out of the proceeds of one crop. Free Homesteads of 160 acres and pre-emption of 160 acres at \$3.00 an acre. Splendid climate, good schools, excellent railway facilities, low freight rates; wood, water and lumber easily obtained.

For pamphlet "Last Best West," particular as to locations and land, write, apply to J. S. CRAWFORD,
125 West 9th Street,
Kansas City, Mo.

When writing advertisers please mention Kansas Farmer.

FIELD NOTES.

Herd Boar for Sale. O. A. Tiller, Pawnee City, Neb., offers in his advertisement this week to sell his great young Duroc Jersey boar, Chief of Valley Chief. His dam is Gold Dust, a granddaughter of Kant Be Beat. Chief of Valley is a choice individual and an excellent sire. He will be sold cheap and fully guaranteed.

Bred Sows and Gilts Privately.

Young & Kimberling, Poland China breeders of Glasco, Kan., change their advertising card with this issue, and offer for quick sale at private treaty 25 bred sows and gilts, bred for March, April and May farrow. Messrs. Young & Kimberling have decided to give their customers the difference between the expense of selling privately and at public sale. They will quote very reasonable prices, but must move them quickly in order to make room for the big crop of spring pigs that is now beginning to arrive. The stock offered represents the best Poland China families and are bred to a good boar. They also have for sale an 11 month sold registered Shorthorn bull, an excellent individual, sired by a good son of old Red Knight. His dam was a Lor Mar cow. This bull is in nice condition for service and will be priced worth the money.

Cement Drain Tile.

At the monthly meeting of the Shawnee Alfalfa Club for February, Prof. W. C. Head of the engineering department of the State University, stated that where the necessary materials were readily obtainable, cement concrete drain tile could be made more cheaply on the farm than the cost of clay tile. This is particularly true of the large sizes. The cement tile has a great strength which is essential in permanent lining, and which is used that which is hard and should be chosen. The old idea that porosity is necessary in drain tile is now no longer held.

Map of Kansas and Oklahoma Free

We have a few very attractive and practical four sheet wall charts, each containing an up-to-date map of Kansas, Oklahoma and map of the World, also a complete map of the Panama Canal Zone. The cover contains special designs, printed in colors, reproducing pictures of KANSAS FARMER topics by Albert T. Reid, whose cartoons on the first page of KANSAS FARMER have become so popular. We only have a small number of these maps, but as long as they last, we will give one free to any present subscriber renewing his subscription to KANSAS FARMER one year at our regular price of \$1, or to any new subscriber sending us \$1 for a year's subscription to KANSAS FARMER. Please remember that these maps are 22 inches wide and 28 inches long. They are lithographed in six colors, showing counties, towns, railroads, congressional districts, and a great deal of other every-day needed information. Be sure and get one while they last. Address Subscription Department KANSAS FARMER, Topeka, Kan.

POLAND CHINAS

POLAND CHINAS

POLAND CHINAS

POLAND CHINAS

DESIGNER. SEARCHLIGHT

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

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

SHORTHORNS AND POLAND CHINAS.

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

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

THE MORTONS

QUALITY AND SIZE POLAND CHINAS.

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

THE MORTONS, Tampa, Kansas, Marion County.

SPRING BOARS

We still have a few extra good spring boars for immediate sale, sired by First Quality by Grand Chief. They will be priced right. Can also spare a few gilts, bred and open.

YOUNG & KIMMERLING, Glasco, Kansas.

200 LARGE TYPE POLAND CHINAS

Herd headed by Big Hadley, Long John 2nd and John Ex. Young stock for sale at all times. A few choice Hadley boars.

CHARLES Z. BAKER, Butler, Missouri.

LARGE TYPE POLANDS.

Toulon Prince 50559 heads herd. Bred gilts for sale; also some good August pigs, either sex. L. E. KLEIN, Zeandale, Kan.

KING DARKNESS No. 149999 Heads my herd of RICHLY BRED POLAND CHINA SOWS. I have a few choice gilts and also sows bred to him for sale. A nice lot of fall pigs by Peerless Perfection 2d. F. J. MILLER, St. John, Kansas.

18 - BRED GILTS - 18

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

HARTERS BIG KIND POLANDS

Headed by Megul's Monarch 45558 and Capt. Hutch 39068. Bred sow sale Feb. 16. 50 Bred Rock cockers for sale.

J. H. HARTER, Westmoreland, Kansas.

Big Type Poland China Gilts

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

J. B. WHIPPLE, Fall City, Neb.

Graner's Great Big Poland Chinas

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

H. C. GRANER, Lancaster, Kansas.

HAVING concluded not to hold a public sale, I will offer 25 well bred, growthy gilts bred to the best and highest priced large-type young boars out this year; six tried 2-year-old sows bred to Grand Look 2d. This cross produced my best sellers in my fall sale. If you want the best that grows, come or write. Special prices on a number in one deal.

S. A. Bugg, Hamilton, Missouri.

POLAND CHINAS

BRED SOWS AND GILTS.

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

T. M. CHAMBERS, Oswego, Kansas.

BIG BONED POLAND CHINAS

10 choice Boars for sale that are first class herd headers, they are big and smooth and guaranteed. Write at once.

W. A. BAKER, Butler, Mo.

Highview Breeding Farm

THE KIND OF OUR FOREFATHERS. Home of the big-boned spotted Poland.

The only registered herd of original spotted Poland Chinas on earth. Bred sow sale February 15, 1911. Ask for catalog.

H. L. FAULKNER, Box K, Jamesport, Mo.

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

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

E. J. MANDERSCHIED, R. 3, St. John, Kan.

FINE FALL PIGS

All spring boars sold. Some fine fall pigs, both sexes, for sale. Write your wants.

W. C. MILLIGAN, Clay Center, Kansas.

GEO. SMITH'S BIG POLANDS—Headed by Mammoth Hadley, the best son of Big Hadley. Sows, daughters of King Do Do, Chief Gold Dust, Gold Metal, First Quality, by Grand Chief. 5 litters by Grand Model by Grand Chief. 100 choice pigs doing well.

George W. Smith, Burchard, Neb.

POLAND CHINA HOGS. Mastodon Poland China hogs, the big-boned type that will weigh when mature 300 to 1,000 pounds. Mastodon Price leads this herd. Mastodon Price sired by A. W. 197356, a hog weighing in full flesh 1,350 pounds. If you want the right kind, they are at Quality Ridge Farm. A number of bred gilts for sale; all choice individual. Phone me at Dearborn, Mo. Railroad station Newmarket, Mo.

CLARENCE DEAN, R. 1, Weston, Missouri.

15 BIG TYPE POLAND CHINA GILTS

Bred for spring farrow for sale at reasonable prices. Also choice fall pigs of either sex.

R. J. PECKHAM, Pawnee City, Neb.

BIG TYPE POLAND CHINAS. Gold Standard by Chief Gold Dust in service. Sows represent the most noted big-type strains. Choice lot of spring pigs.

WALTER HILDWEIN, Fairview, Kansas.

FAIRVIEW POLAND CHINAS

FOR SALE—50 extra fall pigs, both sexes, with size and quality; priced to sell; descriptions guaranteed. Write us.

P. L. WARE & SON, Paola, Kansas.

DEER PARK STOCK FARM.

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

D. A. WOLFERSPERGER, Council Grove, Kansas.

GOLD METAL 43343

By Bell Metal 40388 heads my herd of big type Poland. Breeding stock for sale at all times. Prices right.

JOHN C. HALDERMAN, Burchard, Neb.

Groninger's Big Poland Lead

The blood of the biggest and best. A few choice fall boars and gilts ready to ship. Bred sow sale February 23, 1911.

HERMAN GRONINGER & SONS, Bendena, Kansas.

HICKORY GROVE FARM, the home of the big boned black and spotted Poland China hogs, the farmers' hog, and the kind that makes the most pork. Choice males for sale. Address

GEORGE & OLLIE TAYLOR, Cameron, Mo.

EXPANSIVE 34723.

The 1000-lb. boar assisted by Sampson Chief and Big Victor 2d head my herd of high class, big, smooth Poland Chinas. A few choice bred sows and gilts for sale. Write your wants now.

H. B. WALTER, Effingham, Kansas.

12—VOTER HERD BOARS—12

A spring yearling by Voter and out of Queen Wonder; good individual; price \$75. 12 top spring, boars by Voter, \$25 to \$40. 20 Voter gilts cheap if sold in bunches. Dams in herd represent best families.

A. & P. SCHMITZ, Alma, Kansas.

SPRING MALES AND GILTS.

Now is the time to buy your breeding stock while the best is yet unsold. My pigs are strong and thrifty; are well bred and have been fed with an eye to future usefulness. Write me now. Address

C. H. TILLQUIST, Osborne, Kansas.

WALBRIDGE POLANDS

Quality

L. C. Walbridge, Russell, Kansas

POLAND CHINA HOGS FOR SALE.

Splendid June and July gilts bred for June and July farrow priced for quick sale as I need the room. Special attention to mail orders. Let me book your orders for spring pigs.

F. E. MULLER, Hamilton, Mo.

LAREDO HERD

Poland Chinas, headed by Impudence Style 1322378 and F. R.'s Meddler by Meddler for sale. 15 fall gilts bred for fall farrow and 9 other gilts.

G. W. McKAY, Laredo, Mo.

POLAND CHINAS WITH SIZE.

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

F. F. Oerly, Oregon, Mo.

STRYKER BROS. HERD POLAND CHINAS.

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

STRYKER BROS., Fredonia, Kan.

BIG POLAND CHINA HOGS.

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

CLARENCE DEAN, R. 1, Weston, Missouri.

NINETY HEAD FALL PIGS FOR SALE. Sired by the famous Hadley Boy No. 48069. Remember our bred sow sale Feb. 10, 1911, and send for catalog.

GEO. M. HULL, R. 1, Garnett, Kansas.

DUROC JERSEYS

DUROC JERSEYS

RIVER BEND HERD DUROCS.

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

W. T. FITCH, Minneapolis, Kansas.

SPRING BOARS AND GILTS.

Choice Duroc Jersey gilts bred for June farrow; also some fall pigs of either sex. The kind that grow big. Write me your wants.

W. C. WHITNEY, Agra, Kansas.

SPRINGBANK DUROC JERSEYS.

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

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

W. H. WILLIAMSON, Raymond, Kansas.

50 FALL DUROC JERSEY PIGS 50

Descendants of the great Col. family. Both sexes \$25 to \$35 each.

CHAPIN & NORDSTROM, Green, Kan.

WOODLAWN DUROC JERSEYS.

Headed by Woodlawn Prince 53343. Sows of Ohio Chief, Orion, Topnotcher and other good families. Choice yearling gilts for sale, bred for March and April farrow. Also a few open gilts.

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

HOTEL GREENWOOD HERD.

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

CHAS. STITH, Eureka, Kan.

CHOICE DUROC BOARS FOR SALE.

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

O. A. TILLER, Pawnee City, Nebraska.

BRED SOW SALE MARCH 8.

12 tried sows and 38 choice gilts to sell. Send for catalog.

L. C. WOOLEN & SON, Breckers of Pure Bred Duroc Jersey Hogs, Stansberry, Mo.

Greenwood Herd Durocs

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

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

40—DUROC GILTS—40

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

J. F. STODDER, Burden, Cowley County, Kansas.

DUROC JERSEYS.

Bred sow sale Feb. 22. Ten tried sows, 40 spring gilts; all pure bred and the big, smooth kind.

JASPER AULDRIDGE & SON, Patterson, Missouri.

DUROC FALL PIGS, EITHER SEX.

Fairs, not related, for sale reasonable. Bred sow sale January 24. Write at once for catalog.

FRANK VRTISKE, Pawnee City, Neb.

JEWELL COUNTY HERD.

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

W. E. MONASMIT, Formosa, Kansas.

OHIO IMPROVED CHESTERS

MOSSE OF KANSAS

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

ARTHUR MOSSE, R. D. 5, Leavenworth, Kansas.

MAPLE LEAF O. I. C's.

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

R. W. GAGE, R. D. 5, Garnett, Kansas.

OHIO HERD OF MULE-FOOTED HOGS.

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

HAMPSHIRE HOGS.

All ages, both sexes, best strains, prize blood. Prices right.

C. W. WEISENBAUM, Altamont, Kansas.

SULLIVAN COUNTY HERD. Poland Chinas: 200 head in herd; best blood known to the breed. For sale, eight choice fall gilts; also eight Collie pups.

FULLER BROS., Humphries, Missouri.

BERKSHIRES

LARGE ENGLISH BERKSHIRES

Breeding Stock for Sale. H. U. McCURDY & CO., Hutchinson, Kansas.

BERKSHIRES—OVER 260 HEAD

To select from. Choice boars and females of various ages. A nice lot of fall pigs priced reasonable. We guarantee satisfaction.

LEON A. WAITE, Winfield, Kan.

THE STRAY LIST

Franklin County—Fred Baldwin Co. Clerk. TAKEN UP—By Thomas Sutton address Lane, postoffice Franklin county, Kansas, one red steer 1 year old; bush gone from end of tail.

George R. Ballard—County Clerk—Wichita County.

TAKEN UP—By G. P. Jones, Leoti, Kan., one horse, male, 5 feet ¾ inches high; color gray; no marks or brands; appraised value \$80. Was taken up on the 11th day of July, 1910. Also one horse, female, 5 feet and 2 inches high, brown, white spot in forehead; right hind foot white; no other marks or brands. Appraised value \$40.

FIELD NOTES.

Jones Bros.' Herefords Attract Buyers. Jones Bros., Council Grove, Kan., held their first public sale on February 28. The offering with the exception of one animal was of their own breeding. It was very uniform throughout and sold in fine breeding condition. There were the usual number of real snags; in fact, the stock as a whole sold below its value. But Mr. Jones announced early in the sale that every animal would be sold and the declaration was made good. The 65 head, 23 of which were bulls, averaged about \$111. Following is a list of representative sales:

FEMALES.

2. Ray Hanna, Clay Center.....\$105

3. J. E. Uling, Walnut.....165

4. J. S. Adams, Dunlap.....150

5. Kansas Agricultural College.....175

6. J. E. Uling.....110

7. J. E. Uling.....205

8. J. E. Uling.....140

9. C. W. Armour, Kansas City.....170

10. Alec Phillips & Son, Hays.....130

11. Crocker Bros.....125

12. John Tatge, White City.....140

13. Phillips & Son.....130

14. Phillips & Son.....115

15. J. E. Uling.....115

16. J. E. Uling.....110

17. J. E. Uling.....105

18. J. E. Uling.....100

19. Phillips & Son.....100

20. Crocker Bros.....100

21. Phillips & Son.....140

22. Dr. Thomas Welch, Emporia.....100

23. Phillips & Son.....140

24. Dr. Thomas Welch.....150

25. E. S. Jones.....125

26. Crocker Bros.....135

27. Robert Hazlett.....125

BULLS.

46. Carey Bros., Reading.....150

47. L. W. Osterhouse, Junction City.....150

48. John Tatge.....115

49. Samuelson Bros.....115

50. H. B. Clark, Genesee.....250

51. J. E. Uling.....100

52. L. Tully, Manhattan.....115

53. Thomas Evans, Hartford.....225

54. Ray Hanna and Bert Janson, Clay Center.....200

Blue Rapids Durocs.

Rather low prices prevailed at the Morgan & Kaup Duroc Jersey bred sow sale held at Blue Rapids, Kan., last Monday. However, a large per cent of the offering were gilts and many of them rather young.

So the average of \$37.90 on the 46 head of cataloged animals wasn't so bad for the time of year and kind of weather. Seventy-six dollars was the most money paid for any one animal, this price being paid by J. W. Wolford, Blue Rapids, for a 2-year-old sow by G. C.'s Col. Bell by G. C.'s Col. Following is a list of leading sales:

No. 3. J. W. Wolford, Blue Rapids.....\$75.00

5. G. C. Melber, Valets.....47.00

6. John Danielson, Clyde.....52.00

7. Fen Wells, Irving.....33.00

8. A. J. Wilcox, Clyde.....47.00

10. J. W. Wolford.....40.00

11. Samuelson Bros., Cleburne.....39.00

15. J. W. Wolford.....40.00

16. R. G.

HORSES AND MULES



I HAVE THE LARGEST JACKS IN THE WORLD in both imported and home bred. I have sold over 700 jacks from my farm here and they have sired and are siring the best mules in the United States. My prices are lower than any other man on earth for first class jacks. Let me show you before you buy.

CEDAR RAPIDS JACK FARM, Cedar Rapids, Iowa.



KENTUCKY MAMMOTH JACKS.

We have the biggest and best string of Mammoth Jacks in the West at the fair grounds, Hutchinson, Kan. Come and see them or write for circular. Don't let anybody persuade you to buy a jack until you have seen our at Hutchinson. We will make a jack show for you any day and better than you will see at any of the state fairs in the country.

J. F. COOK & CO., Hutchinson, Kan.
Mr. J. C. Kerr, Manager.

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

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



JACKS AND JENNETS

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

PHIL WALKER, Moline, Ill. Co., Kansas



JACKS AND JENNETS.

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

F. S. BURGESS, Des Moines, Mo.



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

H. T. HINEMAN, Dighton, Kansas.



S. B. UTZ, ST. JOSEPH, MO.

Breeder of high class Jacks and jennets. Six serviceable Jacks, some 2-year-olds, Jack colts and jennets for sale; all good colors. Residence phone, Bell South 762-4 rings, office, both phones south 125.



REGISTERED JACKS AT PRIVATE SALE.

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

G. M. SCOTT, Route No. 2, Rea, Missouri.

ANGUS CATTLE

PARKER PARRISH & CO.

HUDSON, KANSAS.

Pure Blood Angus Cattle

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

80 Angus Bulls

OF SERVICEABLE AGE.

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

SUTTON FARM, Lawrence, Kan.

500 HEAD IN HERD.

SCOTCH SHORTHORNS

Imported Ardlethan Mystery 300632 (85177) should go to head a first class herd. Cannot use him longer as I have so many of his daughters. He is a show bull and sure. Also have 6 of his yearling sons, all good. Prices right. Come and see them.

COL. ED GREEN, Florence, Kansas.

ALFALFA SHORTHORNS

Young stock for sale. Also Silver Laced Wyandotte eggs for sale.

JOHN REGIER, R. 1, Whitewater, Kansas.

BIG SPRING ANGUS CATTLE.

Breeders of pure bred Angus cattle and Duroc Jersey hogs.

Breeding Stock for Sale.

POLLED DURHAM CATTLE

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.

JERSEY CATTLE

LINSKOTT JERSEYS

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

R. J. LINSKOTT, Holton, Kansas.

Jerseydale Stock Farm

Carthage, Mo.

I am offering some very choice bull calves sired by "Tulips Mon Plaisir" 61923, out of richly bred imported cows. Calves range in age from three months to seven months. If you are looking for "Golden Lad" blood you will find these calves close up. Price \$75 delivered to any part of Kansas.

PHIL HANNUM, JR., Owner.

GOLDEN RULE JERSEY HERD.

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

JOHNSON & NORDSTROM, Clay Center, Kansas.

FINE JERSEYS FOR SALE.

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

W. N. BANKS, Independence, Kansas.

JERSEY CATTLE—15 cows and heifers.

3 bulls, Stockwell, Golden Lad, Coomassie, Guenon Lad, St. Lambert and other great sires represented. Duroc Jersey bred sows, 20 head, Ohio Chief and Top Notcher blood. Standard bred colts and fillies, intensely bred Wilkes blood by Sorrento Todd 2:14 1/4, grandson of Bingen 2:06 1/4 and Forrest Axtell 2:14 1/4, grandson of Axtell 2:12, S. S. Smith, Clay Center, Kan.

SHORTHORN CATTLE

Tomson Shorthorns

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

TOMSON BROS., Dover, Kansas.
R. R. Station Willard, on R. I., 16 miles west of Topeka.

SHORTHORNS

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

C. H. WHITE, Burlington, Kansas.

NEW BUTTERGASK SHORTHORNS.

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

Pearl Shorthorns

40 BULLS, 6 to 20 months old, straight Scotch and Scotch Topped—mostly red. Can spare a few females, same breeding.

C. W. Taylor, Enterprise, Kan.

R. R. station, Pearl, on Rock Island.

ELM GROVE FARM.

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

ISAAC NOVINGER & SONS, Kirksville, Missouri.

EVERGREEN HOME FARM.

Lathrop, Missouri.

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

J. H. WALKER, Lathrop, Missouri.

HARRY R. COFFER

Savannah, Missouri.

Breeder of

HIGH CLASSED SHORTHORNS.

Public Sale April 27, 1911.

12—SHORTHORN COWS FOR SALE—12

Also heifers and two good young bulls. Good useful stock. Scotch and Scotch Topped. Want to reduce size of herd before grass. Visitors welcome.

S. B. AMCOATS, Clay Center, Kansas.

RED POLLED CATTLE.

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

C. E. FOSTER, Eldorado, Kansas.

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

Geo. Groenmiller & Son, Pomona, Kan.

HEREFORD CATTLE

HEREFORD BULLS AND FEMALES.

Two choice Hereford bulls 10 to 18 months old sired by Enterprise (12614), dam Prairie Queen (147345) by Counsellor (71682); eight choice heifers coming two and three years old, same line breeding; prices reasonable; all in good condition. Write or come and see me.

HARRY V. BALDOCK, Wellington, Kansas.

Brookside Farm, Savannah, Mo., breeders of Hereford cattle. Herd headed by Herold 101st No. 162585 and Horace No. 306428, he by Beaumont. Young bulls for sale. Mail orders given prompt attention.

WARREN LANDERS, Savannah, Mo.

SPRING CREEK HEREFORDS.

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

TOM WALLACE, Barnes, Kansas.

HOLSTEIN CATTLE

SUNFLOWER HERD HOLSTEINS has an especially fine lot of bull calves to choose from, 2 to 6 months old, no service bulls available at present. Send for Bull Calf Catalogue, to read it over will convince you that better breeding and quality cannot be procured elsewhere. Attractive prices will be made on several A. R. O. cows past mid-die age, but still at their best, all sound and right.

F. J. SEARLE, Okaloosa, Kan.

HOLSTEINS FOR SALE.

Four very choice young bulls and a few cows and heifers for sale, mostly sired by Prince Ormsby, no wowed by Nebraska Agricultural College. Him dams on both sides for four generations average 20 lbs.; he has 30-lb. sisters.

J. F. MAST, Scranton, Kansas.

WOODCREST HOLSTEIN-FRIESIANS.

Thirty-six registered cows, heifers and bulls for sale. Some A. R. O. but all good On Rock Island, 30 miles east of St. Joseph, Mo., half mile from station.

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

HOLSTEIN CATTLE—Young bulls of the

famous Shadybrook family and some bull calves. This herd is headed by the celebrated Sir Johanna Colantha Payne No. 42146. No females at present. Address

M. E. MOORE & CO., Cameron, Mo.

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

HOLSTEIN CATTLE.

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

F. L. HOUGHTON, Sec., 114 Brattleboro, Vt.

GUERNSEY CATTLE.

GUERNSEY CATTLE FOR SALE—Young bulls by Eminence of Birchwood, 688 to 714 pound fat records. Stock guaranteed against tuberculosis for 6 months after sale. Largest herd in Kansas. Farm near Roxbury, Kan., and visitors welcome except Sundays.

FREDERICK HOUGHTON, Galva, Kansas.

WILLOW BRANCH GUERNSEY FARM.

J. H. DUSTON, Prop., Hamilton, Missouri.
Breeder of thoroughbred Guernsey cattle. Herd headed by Tilly's Major No. 6647. Young bulls for sale, among them Major Bonnie Boy No. 3169 and two yearlings of the choicest breeding. Address

J. H. DUSTON, Hamilton, Missouri.



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Missouri Auction School

Oklahoma City, (Largest in the World.)

Gentlemen: Please send me your large illustrated catalog. I may attend your school at Oklahoma City beginning April 3.

Name..... Address.....

FIELD NOTES.

Elder Makes Very Good Sale.

Frank Elder's annual sale of Duroc Jersey bred sows, held at Green, Kan., Wednesday of last week, contained many bargains in the tried sow division, but the gits, many of which were very young and bred late, sold near their value. There was a crowd of local buyers as well as breeders from Kansas, Missouri and Oklahoma. G. M. Hammond, Manhattan, topped the sale at \$80, buying No. 6, a tried sow by Model Chief Again. The entire lot of bred sows and gits averaged \$41.40. Following is a list of leading sales:

1.	Grant Chapin, Green.....	\$75.00
2.	Fred Miller, Wakefield.....	67.00
3.	G. M. Hammond, Manhattan.....	52.50
4.	W. T. Hutchinson, Cleveland, Mo.....	50.00
5.	G. M. Hammond.....	50.00
6.	Ed Edmonson, Clinton, Okla.....	50.00
7.	W. Hugenin, Green.....	36.00
8.	Barnes Farm, Muskogee, Okla.....	40.00
9.	Barnes Farm.....	40.00
10.	Grant Chapin.....	69.00
11.	G. M. Hammond.....	38.00
12.	J. H. Davis, Chillicothe, Mo.....	41.30
13.	Joe Floesh, Manhattan.....	35.00
14.	Grant Chapin.....	42.50

19. A. L. Wylie, Clay Center.....

44.00

20. E. C. Jenson, Albany, Mo.....

40.00

21. Barnes Farm.....

38.00

22. W. Hugenin.....

42.00

23. Barnes Farm.....

37.00

24. Joe Floesh.....

62.00

25. Barnes Farm.....

41.00

26. W. Rickett, Green.....

35.00

27. Barnes Farm.....

41.00

28. T. W. Rickett.....

40.00

29. I. N. Gillespie, Clyde.....

40.00

30. E. C. Jonogon.....

31.00

31. Joe Floesh.....

36.00

32. O. E. Isaacson, Canton.....

36.00

33. George Pfeiffer, Green.....

40.00

34. James Appleton, Green.....

35.00

35. Bert Lykins, Green.....

47.00

36. T. W. Rickett.....

40.00

37. M. Noffe, Green.....

40.00

38. George Spurrier, Green.....

40.00

Dependable Work Clothing.

Fits overalls are made for hard work and for that reason they are made to stand the hard wear. It is easy to make a cheap garment, but Fitz garments are not made that way. The Burnham-Munger Mfg. Co. put the reputation of the whole factory into these garments and back of them. They are sold everywhere dependable merchandise is for sale.

DUNHAMS' PERCHERONS

For forty-six years renowned as the best of the breed. Six large importations since February 1, 1910 (the last arrived October 12th), insure fine selection, as each animal was individually selected for size, bone quality and excellence. If you want choice stallions or mares, write for catalogue, illustrated from life.

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



Percherons
Belgians
and Shires

My new barn is now ready and filled with a large assortment of imported and Home Bred Percheron, Belgian and Coach Stallions; also mares and colts. I will sell you a registered stallion for \$300. Come to Paola and buy a stallion or mare at their actual value.

JOSEPH M. NOYAN, Paola, Kansas.
Mention the Kansas Farmer.

Percherons and Belgians

Our barns are full of the best Stallions and Mares we could buy in the old country; from 1 to 6 years old with plenty of size and quality. We pay no auctioneers or commission, but sell direct at prices that will interest you. A 60 per cent guarantee with every horse. Can show between trains.

Skoog, Reed & De Cow
Holdrege, Nebraska

Percheron Stallions

I have as fine a bunch of stallions as you will find. I have the ton size, and 1,700 to 1,800 pound two year olds, with worlds of bone and great action. My prices are right and my horses are right.

Yours for home grown Percherons,
W. BARNHART, Butler, Mo.

REGISTERED HORSES

O. K. BARNES, SAVANNAH, MO.
W. E. Price, Proprietor.
Dealer in registered horses. Three very fine stallions to SELL AT ONCE. Also the best stud colt in the state. Write for description of stock. I can suit you.

Two Choice Percheron
Stallions at a bargain.
Weight 1750 to 2100.

John D. Ziller, Hiawatha, Kans.

THE BEST IMPORTED HORSES, \$1,000 each. Home-bred, registered draft stallions, \$500 to \$600 at my stable doors. Address LATIMER WILSON, Creston, Iowa.

HOME-BRED DRAFT STALLIONS \$250 to \$600; imported stallions, your choice \$1,000. L. STREAM, Creston, Iowa.

PERCHERON HORSES, HOLSTEIN-FRIESIAN CATTLE.
Up-to-date Poland China hogs. Write your H. N. HOLDEMAN, Meade, Kansas.

FIELD NOTES.

Carver's Good Average.
E. E. Carver and Millard Ellis, the well known Poland China breeders of Guilford, Mo., held their annual sale on February 14. Their reputation and the offering combined to attract buyers from several states. The head disposed of in this sale constituted the year, and the average of \$45 per head was the appreciation in which these were held by the buyers. The top sow sold for \$160 to John M. Belcher, Raymore, Mo., and the top gilt was taken by Herman Groninger & Sons of Bendena, Kan., at \$75. Following are some representative sales:

- | | |
|--|---------|
| A. W. Zimmerman, Amazonia, Mo. | \$37.00 |
| Wayne Hudson, Hemphill, Mo. | 56.00 |
| Col. Julius Klass, Stanberry, Mo. | 55.00 |
| Herman Groninger & Sons, Bendena, Kan. | 75.00 |
| Joseph Wolfner, Clyde, Mo. | 65.00 |
| John C. Wright, Cartersville, Mo. | 60.00 |
| R. L. Skidmore, Guilford, Mo. | 37.00 |
| C. C. Ashberry, Hale, Mo. | 31.00 |
| John Ashberry, Hansell, Mo. | 28.00 |
| John Belcher, Raymore, Mo. | 160.00 |
| August A. Martain, Clyde, Mo. | 64.00 |
| Edward King, Clyde, Mo. | 50.00 |
| T. E. Zimmerman, Savannah, Mo. | 35.00 |
| C. D. Hecker, Guilford, Mo. | 32.00 |
| Willard Ellis, Guilford, Mo. | 40.00 |
| A. H. Wilson, Guilford, Mo. | 30.00 |
| John Wilson, Clyde, Mo. | 35.00 |
| Harry Wales, Peculiar, Mo. | 56.00 |
| Charlie Conover, Stanberry, Mo. | 46.00 |
| L. C. Wilson, Gibson, Mo. | 31.00 |



WE WANT YOU to COME to LINCOLN
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WE WILL NOT DISAPPOINT YOU

We have the largest and best equipped importing establishment in America. We have been importing horses for more than 30 years. We have imported the largest, strongest, and best bred

Percherons, Shires and Belgians Europe Could Produce



Mr. Watson personally selects every horse we ship from Europe. He buys all of our horses from the six oldest and largest breeding firms across the water—firms which have been breeding the great show ring winners of Europe for more than 200 years.

We stand back of our horses.

Every horse we sell is guaranteed with a guarantee that is a guarantee, backed by \$300,000 capital and 30 years' good faith.

We want you to come to Lincoln and visit our big offering.

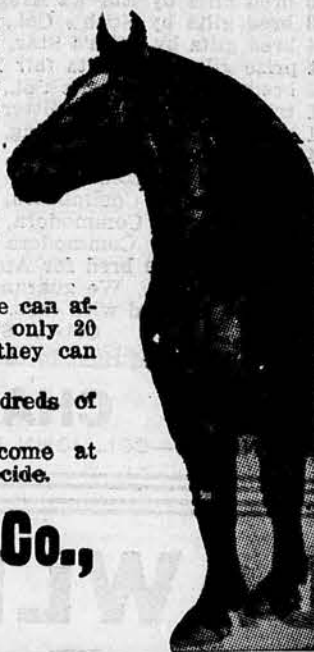
We ship horses from Europe in such large numbers that we can afford to sell them at a small profit in fact dealers who handle only 20 to 30 stallions and mares can buy them cheaper of us than they can import them.

Come to Lincoln and be convinced. We can save you hundreds of dollars on any animal you select from our barns.

Wire us that you will start in the morning. If you can't come at once, send for our big illustrated catalog. It will help you to decide.

Watson, Woods Bros. & Kelly Co.,

Dept. 1, LINCOLN, NEB.



- | | |
|-----------------------------------|-------|
| 49. J. A. McGeorge, Guilford, Mo. | 31.00 |
| 50. Smith Bros., Cleburne, Kan. | 31.00 |
| 51. Martin Pederson, Clyde, Mo. | 30.00 |
| 52. C. A. B. Davis, Guilford, Mo. | 49.00 |

C. J. Woods' Polled Durham Sale.

The Double Standard Polled Durham cattle sale of C. J. Woods at Chiles, Kan., was attended by a small crowd of breeders. The severe snow storm and rain kept many buyers away. There were many good bargains passed through the ring, and the great herd bull, Ross Hero, was considered a valuable purchase at \$320, going to the good herd of D. C. Vannice at Richland, Shawnee county, Kansas. The cattle were all in prime condition and will prove money makers in the hands of the new owners. Had the weather been favorable the cattle would have brought more money. Following is report in full:

- | | |
|---|-------|
| 1. Roan Hero, D. C. Vannice, Richland, Kan. | \$320 |
| 2. Roan Choice, C. W. Hodge, Fargo, N. D. | 325 |
| 3. Idelwild Baron, M. E. Brewer, Concordia, Kan. | 255 |
| 4. Golden King, John Burris, Miami, Mo. | 135 |
| 5. Butterwood Tipp, Wm. Henn, Kansas City, Mo. | 145 |
| 6. Brandywine, W. F. Sabia, Holden, Mo. | 65 |
| 7. Lavender Knight, H. F. Geldinghazen, Mt. Sterling, Mo. | 155 |
| 8. Red Hero, V. Laws, Melbourne, Kan. | 85 |
| 9. Orange Hero, R. B. Dally, Waverly, Kan. | 90 |
| 10. Golden Lass, G. W. Stewart, Bluff City, Kan. | 115 |
| 11. Tipp's Lass, E. Moody & Son, Leona, Kan. | 125 |
| 12. Tipp's Lass 2d, W. T. Dickson, Carbondale, Kan. | 60 |
| 13. Scottish Beauty, D. C. Vannice, 250 | |
| 14. Bashful Beauty, J. J. Williams, Grandview, Iowa. | 325 |
| 15. Mina Mermaid, S. E. Haskins, Olathe, Kan. | 100 |
| 16. Red Maid, Snyder & Pitts, Winfield, Kan. | 80 |
| 17. Zaddae, J. J. Williams, 100 | |
| 18. Sunbeam, C. S. Nevius, Chiles, Kan. | 210 |
| 19. Ingle's Roseleaf, C. S. Nevius, 85 | |
| 20. Orange Knowlmer, C. S. Nevius, 115 | |
| 21. Golden Mine, E. Moody & Son, 55 | |
| 22. Royal Flora, J. J. Williams, 325 | |
| 23. Floras Duchess, C. W. Hodge, 230 | |
| 24. Winsome Magnet, John Schwartz, Bucyrus, Kan. | 130 |
| 25. Hayden Rose, Walter Fleischer, Valley, Falls, Kan. | 150 |
| 26. Hayden Rose 2d, C. S. Nevius, 200 | |
| 27. Buttonwood Hayden Rose, J. T. Lewis, Stillwell, Kan. | 145 |
| 28. Idelwild Ruby 2d, Bert Witt, Fulton, Kan. | 385 |

- | | |
|---|-----|
| 32. Crimson Rose, S. B. Haskins | 70 |
| 33. Crimson Rose 4th, John Schwartz | 60 |
| 34. Crimson Maid, M. E. Brewer, Concordia, Kan. | 100 |
| 35. Crimson Ann 2d, Snyder & Pitts | 105 |
| 36. Lady Magnet John Schwartz | 115 |
| 37. Lady Magnet 9th, A. K. Snyder, Winfield, Kan. | 110 |
| 38. White Rose, J. T. Lewis | 90 |
| 39. Belina 2d, S. B. Haskins | 75 |
| 40. Belina 3d, E. Moody & Son | 85 |
| 41. Vellum, H. F. Geldinghazen | 85 |
| 42. Lady Blanche, E. Moody & Son | 30 |
| 43. Lady Blanche 4th, John Schwartz | 125 |
| 44. Lady Blanche, J. G. Lewis | 70 |
| 45. Queen of Lewisburg, A. I. Myre, Abilene, Kan. | 75 |

Forty-two head averaged \$140.50

Groninger Polands Sell Worth the Money.

There were many bargains at the Herman Groninger & Son sale held at Bendena, Kan., February 23. A good many breeders were kept away on account of unfavorable weather, as bad roads interfered somewhat with the local crowd. But taken as a whole and everything considered, it wasn't a very bad sale and the Groningers were satisfied, as they always are. The top price paid by G. C. Sparks of Marshall, Mo., was \$91 for No. 9, a summer yearling by Banner Boy out of the great breeding sow, Coin Lady. The 45 head sold brought \$1,946.50, or an average of \$42.50. Following is a list of the best sales:

- | | |
|--|---------|
| 1. T. Wallace, Bendena | \$57.50 |
| 2. Henry Groninger, Bendena | 50.00 |
| 3. Henry Groninger | 36.00 |
| 4. J. E. White & Son, Chickasha, Okla. | 47.00 |
| 5. John Jerch, Everest | 50.00 |
| 6. C. G. Sparks, Marshall, Mo. | 87.00 |
| 7. Philip Denton, Denton | 36.00 |
| 8. C. J. Fisher, Severance | 39.00 |
| 9. C. G. Sparks | 91.00 |
| 10. C. L. Branick, Hiawatha | 60.00 |
| 11. J. E. White & Son | 59.00 |
| 12. J. E. White & Son | 41.00 |
| 13. J. H. Haddick, Severance | 27.50 |
| 14. Frank Shaffer, Leona | 50.00 |
| 15. V. Daniels, Gower, Mo. | 52.00 |
| 16. J. E. White & Son | 37.50 |
| 17. V. Daniels, Gower, Mo. | 52.00 |
| 18. Gus Hawling, Bendena | 35.00 |
| 19. W. J. Adams, Everest | 34.00 |
| 20. J. E. White & Son | 39.00 |
| 21. Frank Michaels, Erie | 71.00 |
| 22. L. A. Hazen, Leona | 31.00 |
| 23. W. J. Adams | 40.00 |
| 24. Frank Shaffer | 50.00 |
| 25. Wm. Brantana, Bendena | 42.00 |
| 26. J. E. White & Son | 40.00 |
| 27. Henry Groninger | 38.00 |
| 28. W. F. Fulton, Waterville | 40.00 |
| 29. A. R. Rystead, Mankato | 61.00 |
| 30. John Jerch | 38.00 |
| 31. J. E. White & Son | 49.00 |
| 32. J. C. Halderman, Burchard, Neb. | 50.00 |

- | | |
|----------------------------------|-------|
| 47. V. Daniels | 40.00 |
| 48. T. J. Meisner, Sabetha | 70.00 |
| 49. John Jerch | 29.00 |
| 50. H. J. Griffiths, Clay Center | 31.00 |

Milligan's Polands Sold at Auction.

W. C. Milligan held his first public sale of Poland China swine at Clay Center, Kan., Wednesday, February 22. The offering was presented in nice breeding condition, but many of the gilts were of late farrow and of course quite small. Much of the offering was also bred for late farrow. Those that were of good size and bred early seemed in good demand, but the smaller sale and sold rather below their value, sale and sold rather below their value. The entire lot averaged a trifle under \$35. C. W. Dingman of Clay Center paid the top price, \$55 for No. 11, a March gilt bred to Vetter. A few of the best sales are listed below:

- | | |
|-------------------------------|---------|
| 1. James Henna, Clay Center | \$51.00 |
| 2. K. I. Fattinger, Concordia | 50.00 |
| 3. M. Caldwell, Clay Center | 48.00 |
| 4. J. W. Newkirk, Gencosco | 54.00 |
| 5. L. Carroll, Wamego | 40.00 |
| 6. S. R. Tipton, Miltonvale | 27.00 |
| 7. C. W. Dingman, Clay Center | 39.00 |
| 8. J. W. Newkirk | 45.00 |
| 9. M. Ashman, Bala | 41.00 |
| 10. C. W. Dingman | 55.00 |
| 11. M. Ashman | 41.00 |
| 12. M. Ashman | 33.00 |
| 13. M. Ashman | 30.00 |
| 14. S. E. Smith, Miltonvale | 37.00 |

The Topeka Horse Sale.

The Kansas Public Sale Co., with Col. O. P. Updegraff as manager, made its first sale of horses in the new cattle barn on the State Fair grounds on February 23. Everything considered, the sale was a decided success. About \$12,000 worth of horses were disposed of at an average of nearly \$800 per head, and when the number of colts and young stuff is considered, this is thought to be a pretty fair average. It is expected by the management to hold such sales regularly, and the fact that every dollar of the purchase money was paid in cash has encouraged them in this. Among the best sales were a pair of pure bred Percheron mares bought by Henry W. McAfee of Topeka for \$700. Percheron stallion, T. M. Gathcart, Winchester, Kan., \$900; Kentucky jack, W. S. Campbell, Pauline, Kan., \$475; a hackney horse, F. G. Lange, Menoken, Kan., \$250; an aged jack, Louis Jones, Mayetta, Kan., \$405; a pair of geldings, C. T. Byerle, Topeka, \$425; a pair of mares, J. S. Spillman, Topeka, \$425; a heavy draft mare, James Wall, Topeka, \$227; a grade Percheron mare, Henry Jones, Netawaka, Kan., \$222.50; a Percheron stallion, Louis Jones, Alma, Kan., \$355; a grade Percheron stallion, Henry Comstalk, Basehor, Kan., \$290.

Miller & Manderscheid Poland China Sale

At St. John, Kansas, Friday, March 17, 1911. 50 Head Choice Brood Sows and Gilts

MORE SIZE, MORE RICH BREEDING THAN WE EVER SOLD.



F. J. MILLER.

Such sows as On's Day Dream, Miss Keep On, Miss Daisy by Meddler, Miss On by On and On, 2 Roll in Line sows—Impudence dam, 7 Prince Meddler gilts, 4 gilts out of Edge Lady by Spellbinder, 1 Meddler gilt, 2 Peerless Perfection sows bred to King Darkness, 2 Ideal Keep On gilts. Most all will be bred to King Darkness. 1 Impudence sow, 2 Prince Meddler gilts out of a Chief Keep On dam, 2 Prince Meddler gilts out of Peerless Perfection dam, 5 gilts by On the Spot, 3 by Roll in Line, 1 sow by Meddler 2d, 1 tried sow by On the Spot, 1 choice gilt by King Blain and several other good sows. We are selling some of our best sows and gilts that are considered by breeders and fieldmen who are familiar with them as probably the best collection of sows and gilts of strictly fancy type ever put through a sale ring in this part of the country. We are selling the very best we have and we are not selling them for any fault but to reduce our herds. Kindly mention Kansas Farmer when you write. Remember the date, March 17, and come to our sale. We guarantee a good offering. Send bids to auctioneers or O. W. Devine, representing Kansas Farmer, who will treat you right. We prefer you to come and be with us. We will use same catalog that was sent out for Feb. 18 sale.

MILLER & MANDERSCHIED

St. John, Kansas.

AUCTIONEERS—COL. JOHN D. SNYDER, COL. McCORMICK



E. J. MANDERSCHIED.

Stith & Martin Duroc Bred Sow Sale at Eureka, Kansas

Thursday, March 23,

CHAS. STITH'S CONSIGNMENT.

2 bred gilts by Eureka King, dam Lady Vernon 2d.
3 bred gilts by Stith's Col., dam Best Ever.
4 bred gilts by Stith's Star, dam G. M.'s Gem 2d. G. M.'s Gem 2d was first prize gilt at Wichita fair 1909 and a very fine sow.
1 bred gilt by Badger's Col., dam Orion Pink.
1 tried sow will have litter by Eureka King, dam Orion Pink.
1 bred sow by Eureka King, dam Best Ever.
4 bred gilts by Commodora, dam Beauty 2d.
4 bred gilts by Commodora, dam G. M.'s Gem.
4 bred gilts by Commodora, dam Beauty 2d.
4 bred gilts by Commodora, dam C. S.'s Star.
3 fall boars by Commodora that will make good herd headers. All the sows and gilts are bred for April litters. We ask all farmers and breeders to attend our sale. We guarantee a good offering. Bids send to O. W. Devine will be handled with care.

CHAS. STITH, Eureka, Kansas.

Sale will be held right in town in heated sale pavilion, rain or shine. All will be made comfortable. Send for a catalog to

CHAS. STITH or R. D. MARTIN, Eureka, Kansas

AUCTIONEERS—COL. JOHN D. SNYDER, COL. LON SMITHERS.

R. D. MARTIN'S CONSIGNMENT.

2 tried sows by Dandy Duke, dam Slick Beauty and Hattie May 2d, bred to Model Duroc.
3 fall yearling gilts by R. S.'s Improver, dams Beauty Right 2d and Hattie May 2d; two are bred to Dandy Duke, one sold open.
3 spring gilts by Tattarrax Model, dam Crimson Lady, bred to Greenwood Chief.
20 head mostly spring gilts sired by Tattarrax Model and Dandy Duke, bred to Greenwood Chief, Model Duroc and Orion Chief for spring litters.
1 tried sow by Buffalo Chief, dam Red Beauty and bred to Model Duroc.
2 late spring boars sired by Tattarrax Model. All the gilts are large, growthy gilts and are bred for April litters. All in first class condition. Send for catalog and come to sale. If you cannot come send bids to O. W. Devine representing Kansas Farmer, who will treat you right, but we want all farmers and breeders to attend that can. We want to meet you.

R. D. MARTIN, Eureka, Kansas.

DAWLEY'S HOME FOLK'S SALE

Poland China Bred Sows

At Farm, Near Waldo, Kas. March 23

50 head of choice sows and gilts of up-to-date breeding, sired mostly by S. P.'s Perfection, champion of Iowa 1906, and Impudence I Know, reserve champion of Missouri 1907, and other noted boars. The offering is bred for April and May farrow to above boars and Kansas Meddler, Valley Chief and Sir Darkness, a trio of good young boars.

If you want some real bargains come or send to this sale. Will also sell 100 head of pure bred stock hogs at this sale. Send for breeding list. Sale will commence at 12 o'clock sharp.

F. A. DAWLEY, Waldo, Kansas

AUCTIONEERS—COLS. J. M. & E. O. CLARK.

PERCHERON HORSE SALE

AT STERLING, KANSAS, MARCH 18, 1911

10 Registered Percheron Mares 10

Including Huchepie (75767) 60388, champion mare American Royal 1910 and champion mare Kansas State, Hutchinson, 1910. Three years old, weight 2,130 lbs. This mare is due to foal on February 28, bred to the imported stallion, Australian (66301) 57196. The first prize 5 year old aged stallion at Kansas State Fair, Hutchinson, 1910, weight 2,340. Many good horse judges have said that Huchepie (75767) 60388 would have won champion at the International at Chicago had she been shown, but owing to her being heavy in foal I did not want to take the risk of shipping so far. Gertrude, weight 1,950 lbs., a black 4 year old, is very near her equal—this pair is considered one of as good if not the best teams of mares in the United States. I will also sell one black 4 year old mare, weight 1,825; one brown 4 year old mare, weight 1,850 lbs.; one bay 4 year old mare, weight 1,825 lbs.; one gray three year old mare, weight 1,550 lbs.; one gray three year old mare, weight 1,525 lbs.; one bay 11 months old mare, weight, 1,020 lbs.; one black 10 months old mare, weight 925 lbs.; one gray yearling French draft mare, weight 1,500 lbs. A number of these mares are bred to the champion stallion at Kansas State Fair. All the others are registered in Percheron Society of America (the Stubblefield book). Send for catalog and come to my sale. If you want high class show mares this is the place. Sale right in town. My horses are free from all incumbrances and will be sold for the high dollar.

F. D. WEBB, Sterling, Kansas.

AUCTIONEERS—POTTER & CROTTIS, STERLING, KAN.

FRANK IAMS'

"PEACHES AND CREAM" IMPORTED STALLIONS AND MARES ARE "SWELL SHOW YARD ATTRACTIONS" FULLY ACCLIMATED. THEY ARE THE "CLASSIEST" BUNCH OF BIG "BLACK AND GRAY BOYS"—WITH EXTRA BIG BONE AND MORE 2,000 TO 2,500-POUND STALLIONS THAN ANY IMPORTER IN UNITED STATES.—THAT'S WHY IAMS, THE "KING BEE" HORSE MAN—SOLD DOUBLE THE HORSES IN JANUARY, 1911, AS IN ANY YEAR IN 29 YEARS. THEY ARE "BYEOPENERS"—BUSINESS PROPOSITIONS—THAT MAKE THE WHEELS WORK UNDER A "BUYER'S HAT"—"DOLLY DIMPLES"—IAMS HAS 50 PRIZE WINNERS IN HIS BARN FROM PARIS-BRUSSELS AND EUROPEAN "HORSE SHOWS"—IAMS "HYPNOTIZES" BUYERS WITH "TOPNOTCHERS" AT "BARGAIN COUNTER PRICES"—MAKES HORSEMEN AND WOMEN

"Sit Up and Smile Sweetly"

AND SING "IAMS SONG"—"IKEY BOY" BUY "BLACK AND GRAY BOYS" OF IAMS—THE "SQUARE DEAL" HORSEMAN.—"WALTU ME AROUND AGAIN, IKEY BOY"—AND BUY A STALLION AND MARE TODAY OF IAMS—AND SAVE \$300.00. IAMS IS A "BIG FLY IN THE OINTMENT"—IN THE HORSE WORLD—HE MAKES BUYERS WEAR A "\$1,000.00 SMILE" AND BUY A "TOP NOTCHER" AT LET "LIVE PRICES." OWING TO BAD CROPS—BIG RAINS—CLOSE MONEY—IAMS' CASH AND 29 YEARS' SUCCESSFUL EXPERIENCE—HE BOUGHT AND IS SELLING LARGER AND BETTER HORSES THAN EVER.—"MAMMA"—IAMS IS A "MONEY SAVER"—"A HOT ADVERTISER"—BUT "HE HAS THE GOODS"—SELLS THE HORSES AT HIS HOME BARN ONLY. BUYERS GET "ALL MIDDLEMEN'S PROFITS."

IAMS' HAS 120---PERCHERONS AND BELGIANS---120

TWO TO SIX YEARS OLD, WEIGHING 1,760 TO 2,500 POUNDS; 50 PER CENT BLACKS, 70 PER CENT TON STALLIONS. ALL REGISTERED AND BRANDED. HE SELLS "TOPPERS" AT \$1,000.00 AND \$1,400.00 (FEW HIGHER). MARES—\$700.00 TO \$1,000.00 SO GOOD THEY NEED NOT BE "PEDDLED" OR PUT ON THE "AUCTION BLOCK" TO BE SOLD. IAMS' "SELLING CLOTHES" FIT ALL BUYERS. NO MAN WITH MONEY OR BANKABLE NOTES GETS AWAY FROM IAMS. HE BUYS, OWNS AND SELLS MORE STALLIONS THAN ANY MAN IN THE UNITED STATES. IAMS SAVED \$30,000.00 TO STALLION BUYERS IN 1910. HE IS NOT IN THE STALLION TRUST. AMS PLACES \$1,500.00 INSURANCE.

\$1,000---SAVED AT IAMS'---\$1,000

IKEY, WHAT A "GRAFT THESE "STALLION SALESMEN" ARE WORKING ON THE FARMER, SELLING FOURTH-RATE STALLIONS AT \$2,000.00 AND \$5,000.00. MR. BUYER, SEE IAMS' STALLIONS YOURSELF. TAKE NO STALLION SALESMAN'S WORD. "IAMS HAS THE GOODS YOU READ ABOUT." HIS ESTABLISHMENT IS WORTH GOING 200 MILES TO SEE. IAMS' COMPETITORS "HOLLER," HE IS KNOCKING "HIGH PRICES" OUT OF THE XMAS TREE. IAMS SAYS WOOD, "BUTTS IN," SELLS MORE STALLIONS EACH YEAR. HE MAKES EVERY STATEMENT GOOD. "IKEY BOY BUY A STALLION OF IAMS. HIS \$1,200.00 STALLIONS ARE MUCH BETTER THAN OUR NEIGHBORS PAID THOSE OHIO MEN \$4,000.00 FOR. THEN I CAN WEAR DIAMONDS. IAMS SPEAKS THE LANGUAGE. BUYS DIRECT FROM BREEDERS, PAYS NO BUYERS, SALESMEN OR INTERPRETERS; HAS NO TWO TO TEN MEN AS PARTNERS TO SHARE PROFITS WITH. IAMS GUARANTEES TO SELL YOU A BETTER STALLION AT \$1,000.00 TO \$1,500.00 THAN ARE SOLD TO STOCK COMPANIES AT \$2,500.00 TO \$5,000.00 BY SLICK SALESMEN, OR PAY YOU \$500.00 FOR YOUR TROUBLE. YOU TO BE THE JUDGE. IAMS' PAYS THE HORSE'S FREIGHT AND BUYERS FARE; GIVES 60 PER CENT BREEDING GUARANTEE. IAMS' GUARANTEE IS BACKED BY ONE-HALF MILLION DOLLARS. WRITE FOR MILLION DOLLAR HORSE CATALOG.

References: St. Paul State Bank and Citizens' National Bank, St. Paul, Neb.; First National Bank and Omaha National Bank, Omaha, Neb.; and Packers' National Bank, South Omaha, Neb.

ST. PAUL, NEBRASKA

LAKEWOOD FARM

The Greatest Breeding Establishment in the World

Our Percheron winnings at the recent Chicago International, which is conceded to have been the greatest Percheron Show ever held in the world, has never been equalled before.

At this great show, we won:

CHAMPION STALLION, showing four of his get (CALYPSO)
CHAMPION AMERICAN BRED STALLION
RESERVE CHAMPION AMERICAN BRED STALLION
CHAMPION MARE
CHAMPION AMERICAN BRED MARE

Also TWENTY-FIVE other prizes. All of these CHAMPIONS were sired by the world's famous CALYPSO.

LAKEWOOD FARM IS HEADQUARTERS FOR THE BEST, and our prices are reasonable. Send for illustrated catalog.

H. G. McMILLAN & SONS, Props.

Rock Rapids, Iowa

LAMER THE IMPORTER

50 head of Imported Percheron and Belgian Stallions and Mares for sale at "Let Live Prices." Write for catalog. Prices right.

C. W. LAMER,

SALINA, KANSAS



W. H. RICHARDS, Importer

PERCHERON AND BELGIAN HORSES.

A car load of extra good 2-year-old and 3-year-old stallions recently arrived. Come and see these magnificent horses before you buy a stallion. I will make you some eye-opener prices just now. Barns only four blocks from A., T. & S. F. depot.

EMPORIA, KAN. EASY TO GET THERE.

HOMWOOD STOCK FARM

IMPORTERS AND BREEDERS OF

Percheron Belgian Shire Stallions and Mares

NOTICE TO PROSPECTIVE BUYERS:

For the benefit and convenience of our Western trade, we have established a permanent branch barn at Abilene. Prospective buyers are cordially invited to inspect our stock here, and if you don't find just what you are looking for, we will be pleased to accompany you to the home barn at Homewood, Ill., where we can show you 100 head of big, drafty Stallions and Mares with plenty of bone and quality. Every horse guaranteed sound and a satisfactory breeder. Prospective buyers should see this stock before buying elsewhere. Third importation to arrive in ten days. Write us your wants, or better still, come and see us. Abilene is on the Rock Island, Santa Fe and U. P. railroads. Mention Kansas Farmer when writing.

Barns 2 Blocks North U. P. Depot.

S. METZ & SONS ABILENE, KANSAS

Imported Percheron and Belgian Stallions

A number of fine stallions from the famous Holbert Importing Co., of Greeley, Ia., are now for sale at Krause Feed Barn, New Hampshire Street, Lawrence, Kan. All of them young stallions in the pink of condition, ready for service. Horses Right. Prices Right. Communicate with George Robertson, Lawrence House, Lawrence, Kan., or better, come and see them.

Geo. Robertson, Manager, Lawrence, Kans.



ROBISON'S PERCHERONS

For sale now, 100 head of stallions, mares and colts, of all ages. All stock recorded in Percheron Society of America.

ADDRESS BOX C,

J. C. ROBISON, Towanda, Kan.

DUROC JERSEY SALE

TUESDAY, MARCH 21 AT 11 O'CLOCK SHARP ON MY FARM 6 1/2 MILES SOUTHEAST OF MERIDEN, 14 MILES NORTHEAST OF TOPEKA AND 6 MILES NORTHEAST OF GRANTVILLE.

The offering is richly bred and carries the popular blood lines of the Duroc family and consists of 35 bred sows and gilts, 15 open gilts and 30 boars. The sows are bred mostly to D's Crimson Wonder, son of Crimson Wonder 3d, the Nebraska champion in 1908 and first in his class in Nebraska, Iowa and Illinois in 1910. The boars and open gilts were sired by D's Grimson Wonder and D's Col., a son of B. & C's Col., champion of Iowa and Illinois. The entire offering is certainly well bred, smooth, mellow and a useful lot of swine. If you are looking for something real good, you will not be disappointed if you come to my sale. Catalogs ready. 14 head of grade Shorthorn milk cows sold before lunch. AUCTIONEERS—COL. J. D. SNYDER, COL. F. A. TRIPP, COL. WM. DETLER.

E. S. DAVIS, MERIDEN, KAN.

O. W. Devine, Fieldman, representing Kansas Farmer.

FIELD NOTES.

McMillan's Percheron Sale

Good Percherons, a good crowd of buyers and good prices characterized the H. G. McMillan sale of Lakewood Farm Percherons, which was held at Sioux City, Iowa, on February 14 and 15. For many years Kansas has claimed the record on Percheron mares sold at public auction, which was made when the Kansas grown Regina sold for \$2,500, but at the McMillan sale the champion mare, Iolanthe, a daughter of Calypso, carried away this honor when she was knocked down to W. S. Corsa, White Hall, Ill., for \$3,500. A yearling son of Calypso topped the stallion sale at \$1,405. There were buyers present from 13 states and the sale was a snappy one. Representative sales follow:

STALLIONS.	
Pert 59886, J. E. Dodds, Wheaton, Minn.	\$ 760
Senator 67846, John Burns Missoula, Mont.	630
Cotell 56238, H. Weiss, Huron, S. D.	630
Rague 67578, C. R. Steele, Ireton, Ia.	540
Orville 64027, J. A. Furley, Ewing, Neb.	210
Dolores 64666, J. S. Johnson, Ellendale, N. D.	490
Messale 60044, J. S. Johnson	410
Menden 63570, H. L. Lamson, Sheldon, Iowa	275
Barnum 59875, M. Wilson, Saskatchewan, Can.	650
Graydy 61660, H. H. Winterbeer, Everley, Ia.	405
Rosengal 59991, T. N. Hampton, Helena, Mont.	410
Silver Ore 64662, J. K. Dewell, Cordon, Neb.	450
Allerton 64659, C. E. Cheney, Manchester, Kan.	605
Niger Boy 59890, F. W. Jordan, Triquois, S. D.	500
Omro 64022, F. Casey, Towner, N. D.	275
Hobo 60266, P. J. Eggers, Denison, Iowa	320
Claron 62405, W. N. Williams, Atlantic, Iowa	365
Regal 59989, Senator E. H. Vore, Philadelphia, Pa.	450
La Duke 67546, F. O. & O. O. Ellison, La Nore, N. D.	440
Emperor 68761, John Burns	1405
Cloaire 70516, E. E. Petrie, Knopnoster, Mo.	270

MARES.	
Iolanthe 40925, Mrs. W. S. Corsa, White Hall, Ill.	3500
Adelaide 50646, Wm. Hale, Anamosa, Iowa	830
Imp. America (61129) 45735, W. H. Kerr, Bennington, Neb.	1300
Columbia 69929, G. S. Hardin, Cambridge, Neb.	1030
Stella II 66204, W. H. Kerr	675
Audrey 60789, Aug. Leltzow, Lewiston, Minn.	785
Imp. Bobine (55538) 45754, J. A. Benson, Sheldon, Ia.	490
Princess III 41847, S. R. Pierce, Creston, Ill.	300
Babette 40923, R. A. Chase, Fort Morgan, Colo.	760
Elsida 50563, B. F. Shackelford, Daykin, Neb.	410
Naomi 34978, E. E. Petrie	805
Fashion 50418, S. R. Pierce, Creston, Ill.	875
Marguerite 45347, R. A. Chase	850
Ruth 70862, B. F. Shackelford	760
Harriet 64532, R. M. Roberts	705
Keota Cherry 52802, S. R. Pierce	510
May Queen 51147, W. J. Kemp, Marlon, Iowa	500
Miss Watson 64855, Senator E. H. Vore	300
Charlotte 66221, Henley Ranch, Green Castle, Mo.	605
Bonita 69937, W. W. Vaughn, Marlon, Iowa	515
Vengle 69994, Henley Ranch	625
Edna 67610, Otto Noppe, Cambridge, Neb.	510
Favorite X 57955, James Vonmeyer, Rosebud, S. D.	400
Agatha 70859, D. B. Cummins, Ute, Iowa	340
Nettle 68739, Henley Ranch	775

SUMMARY.

34 stallions sold for \$14,835, average \$436.30
46 mares sold for... 28,485, average 619.25
80 head sold for... 43,320, average 541.50

Kentucky Jacks at Topeka.

Saunders & Maggard now have a fine car load of Kentucky Jacks at the Topeka state fair grounds which they will dispose of at private sale. These Jacks range in age from coming 3 to 7 years and are in excellent shape to go out and make money. Notice their advertisement and come and see the Jacks or mention Kansas Farmer when you write.

PERCHERON MARE SALE

AT POMONA, KANSAS

Tuesday, March 21, 1911

10 head of Percheron Mares. 1 pair of black mares.
3 black two year old fillies. 3 brown mares.
1 pair gray mares.

All these mares are registered or eligible to register in the Percheron Society of America and range from two to eight years old, and are all bred and we believe in foal to our registered Percheron horse, Vulcan 29191. They are all large, heavy type—good bone and carry some of the best blood lines known to the breed, and will be sold without reserve. We ask all lovers of good horses to come to our sale.

J. E. COFFEY & SON, Pomona, Kansas

AUCTIONEERS—COL. E. E. VICKERS, COL. DOC. HARLAN.
For reference, our banker, G. A. Huddleson.

Kentucky Jacks

Have just shipped a car load of fine Kentucky jacks from Flemingsburg, Ky. For sale privately at State Fair grounds.
SAUNDERS & MAGGARD,
Topeka, Kansas.

FOR SALE—TWO COMING 3-YEAR-OLD full blood Shire stallions; \$800 each. Bell Bros., Ackerland, Kan.

FIELD NOTES

FIELD MEN.

Wayne Devine.....Topeka, Kan.
Jesse R. Johnson.....Clay Center, Kan.
W. J. Cody.....Topeka, Kan.

PURE BRED STOCK SALES.

Horses.

Percherons, Belgians and Shires.
March 15—Percheron stallions and mares.
Kentucky Jacks, at Lincoln, Neb. O. P.
Hendershot, Hebron, Neb.
March 30—Kepple & Barnett, Glen Elder, Kan. Sale at Beloit, Kan.

Jacks.

March 7—G. C. Roan, La Plata, Mo.
March 8—J. E. Clary & Sons, Sheridan, Mo.

Shorthorns.

June 6—C. S. Nevius, Chiles, Kan.

Poland Chinas.

March 15—Hanson & Collins, Abilene, Kan.
March 29—J. H. Harter, Westmoreland, Kan.
May 12—C. S. Nevius, Chiles, Kan.
Oct. 11—S. A. Hobson & Son, King City, Mo.
Oct. 21—W. C. Singer, Hiawatha, Kan.
Oct. 24—W. F. Fulton, Waterville, Kan.
Oct. 25—Walter Heidwein, Fairview, Kan.
Oct. 26—H. H. Foster, King City, Mo.
Oct. 27—J. C. Haldeman, Burchard, Neb.
Oct. 31—W. T. Williams, Valley Falls, Kan.
Nov. 1—B. B. Walter, Effingham, Kan.
Nov. 2—H. C. Graner, Lancaster, Kan.

O. I. C. Swine.

Oct. 23—Arthur Mosse, Route 5, Leavenworth, Kan.

Correction.

In a recent issue Kansas Farmer stated the Kansas Poultry Co., Newton, Kan., had 300 fowls on exhibition at the Norton Poultry Show last January. It should have stated that "over 300 fowls were exhibited in the show." Of these, 38 birds were shown by the Kansas Poultry Co., and its winnings on these 38 birds were 24 firsts, 14 seconds and 6 thirds.

"Sure Seeds" Book.

Twenty-eight years is a long time for a firm to be in one business in one place. Such a long time in business at the same old stand proves that a business is built on merit of goods sold and treatment given to customers. The 28th annual catalog of Archias Seed Store, Sedalia, Mo., just came to our desk. It is the best one this company has yet sent out and their seed books in past years have always been exceptionally good. Every one who plants or sows, should be sure and write for the Archias Seed book. Address above. Kindly mention this paper when writing.

Horse, Mule and Cow Clipping Machine.

On another page we show an advertisement of the Chicago Flexible Shaft Company's machine that is used for clipping horses, mules and cows. The clipping of horses and mules in the spring is generally conceded to be beneficial. The clipped animals not only appear better and are easier cleaned, but they dry off quickly at night, get good rest and are more vigorous and thrifty. Dairymen now regularly clip the flanks and udders of cows every three or four weeks. It is easy to wipe off the parts then before milking and insure clean, uncontaminated milk. It would seem that a good clipping machine deserves a place on every farm, and the Stewart Ball Bearing Machine, offered by the above firm, has a splendid reputation among users.

The Implement Blue Book Free.

The Midland Publishing Co., St. Louis, Mo., has left over a few hundred copies of the 1910 Implement Blue Book, one of which it offers to mail, free of charge, to any subscriber to this paper who will send 20 cents to pay the postage, packing, etc. The book has 527 royal octavo pages, weighs 2 pounds and contains complete classified lists of all farming implements, vehicles, wagons, automobiles and kindred goods, made in the United States with names and addresses of manufacturers; also a full list of all branch, jobbing and transfer houses in this country and Canada, from which nearly all shipments may be had. Much other information of great value to farm people is also contained in the book which originally sold for \$3.

"Reddest Reds in Kansas."

Moore & Moore of Wichita, Kan., begins an ad with this week. They are the breeders of the "Reddest Reds in Kansas." This has been demonstrated by their season's winnings at the largest shows in the state the past season. Look up their ad and write for the mating list.

A Wonderful Seeder.

Thompson's Wheelbarrow Seeder means better stands of alfalfa, clover, timothy, orchard grass, blue grass, etc. It sows uniformly, economically and evenly, and it sows quickly or slowly, 30 to 50 acres a day, as you desire. The hopper is carried close to the ground, preventing wind from affecting the work of the Thompson Seeder. It works equally well on rough or smooth ground. Thompson's Seeder successfully meets all the conditions of your particular land. It lasts a lifetime, but quickly pays for itself. It balances perfectly always. Almost anybody can use a Thompson Wheelbarrow Seeder. There is no trick in its operation, no experience is necessary. Anybody who can push a wheelbarrow can run Thompson's Wheelbarrow Seeder. We would suggest to you that you write a postal card to O. E. Thompson & Sons, Ypsilanti, Mich., for their complete catalog showing many styles and sizes of Thompson's Wheelbarrow Seeders and prices.

The Egg-Making Machine.

With eggs holding a good price on the market and yielding big profits, farmers are bending every effort to increase their production. In order to do this, special attention should be given to the egg-making elements of the poultry food. To insure a bigger laying at this season of the year, cracked corn, ground bone, oyster and other shells should be fed liberally. In fact this is a necessity. You can furnish your poultry this food at lowest cost by using an "Enterprise" Bone, Shell and Corn Mill. This mill has been truthfully called the "Egg-Making Machine." With it you can make the finest egg material possible. The increased profits in a single year will more than cover its cost. May be used also for making bone meal fertilizers. A good all-round mill for farmers and poultrymen. For grinding dry bones, oyster and other shells, corn, roots, bark, grain, etc. Its weight is 60 pounds—capacity 1 1/4 bushels of corn per hour. The name "Enterprise" is on every mill. Another great help to the farmer is the "Enterprise" Meat and Food Chopper, a machine that lightens the labor of sausage making. It cuts the meat without tearing or crushing. Used all year round in the kitchen as the housewife's helper in making many tempting dishes. Your name and address with 4 cents in stamps will bring you a copy of "The Enterprising Housekeeper"—200 recipes and helps in the kitchen. Address The Enterprise Manufacturing Company of Pa., Department 56, Philadelphia, Pa.

Rubber has many peculiarities in its crude state, according to P. W. Litchfield, general superintendent of the Goodyear Tire and Rubber Company's extensive plant at Akron, Ohio, which he has seen grow from a modest concern to its mammoth proportions, which include an enormous chimney that cost more for material and labor than the original little plant of the company in 1838. "The crude rubber we get from Ceylon comes in entirely different from what we get from Brazil," stated Superintendent Litchfield during an interview at the factory. "Yet it is the same kind of rubber—Para rubber—and of practically the same quality. Seeds of the Hevea tree, which produces the Brazilian Para rubber, were taken to Ceylon some year ago and planted in soil very similar to that to which it is indigenous in the valley of the Amazon. Some day these young trees are going to be just as good as those in the Amazonian forests, and in the trade it is believed to be only a matter of time when what is called the cultivated rubber crop will be sufficient to supply the needs of the world; and probably at a much lower cost than manufacturers have been paying. In 1908 this cultivated crop of rubber from Ceylon did not exceed 2,000 tons; the next year it was 4,000 tons; last year it had grown beyond 8,000 tons, and this year's crop is estimated as likely to reach 14,000 tons. A few years hence the cultivated crop will equal the wild or natural crop of South America."

Sensible Washing Machines.

There seems to be no end to the making of washing machines. And to many people the more they come the less they seem to be what is really needed by the women who must do the washing. At least this was the feeling of George Huenergardt of Lincoln, Neb., when he tried for several years to buy for his wife a washing machine that would make the work less instead of more. It didn't seem to him that the joy of running a lot of cog wheels and dashers was a sufficient offset to the extra labor required for their running, over the old process of rubbing on a washboard. Few women can appreciate the niceties of a mechanical composition and get enthusiastic over it like its inventor, when the women and not the inventor have to supply the labor for its operation. In the face of actual operating labor reality makes a stronger impression than romance or enthusiasm over invention. All this, Huenergardt being a hard-headed,

practical German mechanic, learned most vividly from his efforts to please his very practical helpmeet. Hence it was he got busy on the subject and began to study it out. After a few years—years, mind you, not days of experimenting and study—he finally produced a washing machine wholly without cog gears, dashers, rubbing posts, chains, springs or any other of the mass of contraptions found on the general run of washing machines. The force of gravity, together with air at atmospheric pressure, is made to do the work. To get these forces to do the work the operator, by a lever, rocks the machine, which rocking is scarcely more effort than rocking a cradle. And the washing is effectively done without any damage even to the most delicate of laces. The Huenergardt Mfg. Co., Box 276, Lincoln, Neb., is now putting these perfected washing machines on the market. The price is made low and every prospective purchaser has the privilege of fully trying out the machine before paying for it, a plan whereby nothing is risked to have absolute knowledge of the goods before paying the price. Write the company at above address for further information or a trial machine.

Look Out for Hog Cholera.

The farmer or stock raiser who raises hogs for market is more or less on the anxious seat from the moment the litters are farrowed until the fat squealing porkers are safely loaded in a car and headed for the stock yards. He asks himself, what assurance has he that an epidemic of cholera will not break out among his fattening herd when he least expects it and his pork profits go glimmering almost over night. Until recently, the hog raiser was fully justified in asking himself that question for he really had no such assurance. Today, however, there seems to be assurance of the most positive sort that there is absolutely not the slightest danger of an epidemic of hog cholera, worms or other swine diseases if the proper precautions are taken. According to the testimony of many farmers and hog raisers who have tried it, the "proper precaution" lies in mixing a certain amount of Merry War Lye with the swill, or if the hogs are on a dry ration, with the drinking water, night and morning each day. The unquestioned virtue of Merry War Lye as a hog remedy is due to an exclusive process of manufacture which renders it absolutely harmless to hogs when mixed with feed or water in the right proportions. It is the only lye which can safely be administered to hogs; and is especially prepared for preventing and curing cholera, worms and all hog diseases and adds wonderfully to their weight. The daily use of Merry War Lye immunizes and fattens hogs quicker and surer than anything else. It tones up the system, assists in the perfect assimilation of the food and prevents scouring. It saves feed, because every pound of corn or other ration fed goes into flesh and fat and none of it is wasted. And only the practical, experienced hog raiser knows the amount of feed that is wasted in a herd of wormy, scoury hogs. In order to obtain the best results, Merry War Lye should be fed every day at regular feed time. Merry War Lye is most effective when mixed in the proportions of one tablespoonful with swill for ten hogs, or one-half can added to every barrel of drinking water or feed. Every farmer and hog raiser owes it to himself to investigate the claims made for this remedy. It is certainly cheap enough; only 10 cents a can or a case of 24 cans for \$2.40, and at that price it is the cheapest pork profit insurance a man can buy. Merry War Lye is for sale at nearly all dealers, but if it cannot be obtained at local stores, we earnestly advise everyone or our readers who raises hogs either on a large or a small scale to write to the manufacturers, the E. Rivers Lye Company, St. Louis, Mo., for full particulars, testimonials and information, any dealer can secure Merry War Lye for you, however.

The combination Poland China bred sow sale at Beloit, Kan., on last Saturday, in which E. C. Logan of that place and C. H. Pilcher of Glasco, Kan., sold 46 head of sows and gilts was fairly successful, although the prices received were not as good as the high class offering warranted. The offering was probably as good as has been made this winter, in central Kansas, at least. The top of the sale was \$76, paid for Sweetness, a well known and valuable tried sow in Pilcher's consignment. She went to Oscar Olson of Brookville, Kan. There were a number of breeders present and the offering was favorably commented on by them. The fact that many of the sows were bred for late farrow out the average down considerably. Below is a partial list of the buyers:

1. W. O. Clark, Beloit, Kan.....	\$33.00
2. W. A. Frewett, Asherville, Kan.....	50.00
3. S. A. Hicks, Beloit, Kan.....	40.00
6. Van Jones, Beloit.....	33.00
10. C. W. Jones, Solomon, Kan.....	30.00
11. J. W. Smith, Beloit.....	28.00
12. A. Hicks, Beloit.....	40.00
12. W. T. Hammond, Portis, Kan.....	25.00
14. Jake Margreter, Cawker City.....	31.00
15. John Reischick, Beloit.....	31.00
16. Isaac Bellis, Beloit.....	32.00
16. W. T. Hammond.....	30.00
20. F. E. Heath, Downs, Kan.....	32.00
21. Irving Jones, Beloit.....	32.00
22. German Walters, Beloit.....	29.00
23. Oscar Olson, Brookville, Kan.....	75.00
26. W. A. Frewett, Asherville, Kan.....	35.00
27. C. W. Jones, Solomon.....	50.00
28. W. T. Hammond.....	33.00
30. C. B. Wilson, Holington, Kan.....	48.00
31. S. B. Young, Glasco, Kan.....	30.00
33. Jack Smith, Beloit.....	29.00
34. Lawrence Jermark, Beloit.....	28.00
36. Irving Jones, Beloit.....	31.00
38. Lawrence Jermark.....	31.00
39. Robert McKimmon, Beloit.....	22.00
40. Al Hicks.....	28.00
42. W. E. Long, Osawkee, Kan.....	39.00
43. R. M. Bunnell Atchison, Kan.....	14.00
44. John Reischick, Beloit.....	30.00
44. Wm. Wildman, Beloit.....	56.00

Money Saver on Farms.

There is never an end to work on any farm. Much farm work for lack of time at certain times of the year is bound to lack more or less in the well doing. Whatever in the way of machinery will help to save time by doing what otherwise takes man-power and man-time to do, the same is worth investigating. In the crop planting, growing and harvesting season a farmer's productive power is measured by the number of hours he puts in in the fields. And there, too, his use of horse-power and modern machinery determines the measure of his productive effort. No farm machine ever invented is more of a factor for multiplying productive effort than the gasoline engine. Of such engines there are many different kinds and types, but among them

one stands out as especially adapted for farm use. The Cushman Motor 3 H. P. gasoline is light in weight but powerful and well-nigh everlasting in endurance. Its lightness, only 345 pounds, makes it the ideal farm engine. It is easily moved from place to place for any work from running a grindstone to that of running a self binder. It does more than 3 horse-power work, yet it is easily regulated to do 1/2 horse-power work at any desired speed without stopping the engine. It takes less gasoline, runs more steadily, does more different kinds of work and will outwear any other farm engine. It is built of the finest materials and workmanship known to the engine-making world. The Cushman Motor is a perfect product. Born of years of experimenting, and proved by years of successful work on hundreds and hundreds of farms and in hundreds of shops. The Cushman Motor Works have experimented for every power user, but no one experiments for Cushman. That means engine satisfaction to every buyer and user of a Cushman Motor. Every hour that a farmer saves in running feed grinders, corn shellers, pumps, shop tools, cream separators, churns, wood saws, feed cutters, washing machines or any other work classed as chores, increases his capacity for production, self-improvement and recreation. A Cushman Motor is the end of chore slavery and drudgery. Not only that, but in the hot harvest time, when horseflesh is easily fatigued, the Cushman Motor attached to any binder cuts short the harvest work and makes possible grain cutting, even when fields are muddy. Attached to a binder and given two horses at the tongue, the Cushman Motor does the work of five and six horses without fatigue. It is the original binder engine. It is the ideal engine for power sprayers. Every farmer will be doing himself a good turn to write the Cushman Motor Works, 240 N. St., Lincoln, Neb., and ask for their literature.

Fine Brown Leghorns.

Mrs. Swerdfefer, Brown Leghorn breeder of Wichita, Kan., is another breeder that sees the value of Kansas Farmer advertising, and she has good ones.

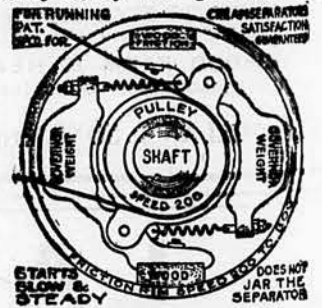


Factory of the Nebraska Incubator Co. Makers of the Famous Fairfield Incubators, Which Are Guaranteed to Hatch 90 Per Cent or Better.

The Nebraska Incubator Co., Sam Thompson, president, of Fairfield, Neb., is sending out its incubators under the unusual guarantee of 90 per cent hatch. This concern allows the purchaser to try two hatches in the Fairfield incubator and if it fails to hatch 90 per cent of all fertile eggs or for any other reason is unsatisfactory the manufacturer will take back the machine. This is the only concern known selling incubators on so liberal a guarantee. Three sizes of incubators, 100, 150 and 300 egg capacity are manufactured by the Fairfield Incubator Co., also three sizes or brooders, 100, 150 and 300 chick capacity. An attractive combination price is made on an incubator and brooder. A handsome illustrated catalog, containing much useful poultry information will be sent to any one who drops a card to Sam Thompson, president Nebraska Incubator Co., 177 Main St., Fairfield, Neb.

Cream Separator Governor Pulleys.

We show herewith an illustration of the Strite Governor Pulley, the missing link between the cream separator and the engine line engine and said by those who use them to be the only successful device for driving to the cream separator with gasoline engines or any unsteady motive power. The engine may be started instantly at full speed and the Strite Pulley will gradually increase



until the normal or desired speed is reached. This pulley not only starts the separator slowly, but it controls the speed at all times regardless of the variation in the speed of the engine or line shaft. By the use of the Strite Governor Pulley not only the life of the cream separator is increased, but the capacity of the machine is increased and produces a more uniform grade of cream than is possible to produce by hand turning. See advertisement on page 33.

Baker's Big Type.

Charles Z. Baker, breeder of the large type of Poland Chinas at Butler, Mo., has one of the very best herds in the state. His sows are farrowing and they all have large litters. His foundation stock was selected from the best herds he could find in Kansas, Missouri and Nebraska and they are worth looking at. The blood of John Hadley, John Ex, King Hadley and John Long 2d form the basis of his breeding operations. Big Hadley is the famous boar that made John Blain famous. John Ex is a grandson of Big Blain and out of Water Lilly, a granddaughter of Blain's Wonder. With all this combination of good blood and the skill possessed by Mr. Baker in breeding and care of his hogs, he sure has the right kind. He still has a few more and fall boars for sale, so if you need anything in this line just see him or mention Kansas Farmer and write him. He will treat you right and his hogs will do the same.

Papa Ike and Lady Ikey, too: "Cheer up, Ikey, wide the door" and "open the sunshine in Iams' let the sunshine in. Iams' peaches and cream" imported stallions are "rowdy" for a "good selling." "Real money cuts an awful lot of ice with Iams, the lot of ice with Iams, the lot of ice with Iams. Papa Ikey, the "financial sun" shines more brightly—we have \$300,000,000.00 more currency than last year and more being dug out of the mines and coined daily. Interest rates are lower and money more plenty to loan than 30 days ago. 1911 promises to be a "gold mine year" to men of push, hustle, nerve and brains enough to buy their imported "top notchers" of Iams. He has more real, first class, big 2000 pound to 2500 pound stallions than can be seen at any five importing barns in U. S. The "cream of France" and Belgium and bought when "crops" were the poorest in 20 years. Iams has reduced the prices on "show horses" \$200 to \$500. "Papa Ikey," buy a thru ticket to Iams' barns. He will meet you with a smile and you will have a \$1,000 smile on (saved) and a real "peaches and cream" stallion when you depart. Iams is strong on "big drafters" of big bone and quality. "You won't get stung" at Iams'. His 29 years of business and his one-half million dollars behind his guarantee make him a safe man to buy from. He has the "goods" and is a "prince among men." Iams has fifty prize winners in his barns from Paris, Brussels and European "horse shows"—Iams "hypnotizes" buyers with "top notchers" at "bar-gain 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, 1911 horse catalog is an "eye opener," a "bunch of gold," the "book of books" to stallion and mare buyers. It is full of facts, truths, "business propositions" and 115 illustrations of the best and largest imported stallions and mares in the U. S., "true to life" in "every pose." This "warm" book is full of Iams' kind—the "wide-as-a-wagon drafters"—the real "peaches and cream" stallions. It shows the "tricks" of "stallion peddlers" and "auction block salesmen." Iams has been "bumping the heads" of the "gold brick stallion salesmen" with better and larger stallions, forcing the breeder and importer with inferior stallions and mares to sell them on the "auction block" as the last resort. And, Mr. Ikey, no first class stallions are ever sold by "peddlers" or on the "auction block." Iams guarantees to sell you a better stallion at \$1,000 and \$1,400 (some higher) than are being sold to farmers' stock companies at \$2,500 to \$5,000. If you don't find this so, you can have the \$500 Iams hangs up. "It's not because your eyes are blue" that Iams tells you in his "ads" of the money he will save you. He wants your business, that's why he advertises. He wants you to smile on him with a visit. He will make the "wheels of business" go round. Iams can place \$1,500 insurance. He is an "easy man" to do business with, and he buys stallions by "special train load," 100 at a time. He speaks the language, saving 20 per cent. He is not in the "stallion trust," saving you \$300. He pays no "slick salesmen" \$1,000 to sell you a fourth-rate stallion. He has not two to ten men to share profits with. He pays spot cash for his stallions, owns his farms, houses, barns, stock and stallions. He sells stallions by "hot advertising" and having the "goods" to make every statement good. Iams will save you \$1,000 or more in middlemen's profits. All of Iams show horses are for sale. Iams' "selling clothes" fit all buyers. Write for his 1911 million dollar horse catalog and eye-opener.



A PAIR OF PRIZE WINNING PERCHERON MARES WEIGHING 3,500 POUNDS, THE KIND THAT BRING COLTS THAT SELL FOR \$500 EACH AT 6 MONTHS OF AGE. MODELS OF 12C STALLIONS AND MARES THAT MUST BE SOLD BY FRANK IAMS, ST. PAUL, NEB. PRICES REDUCED FOR NEXT SIXTY DAYS.

Sutton Berkshire Sale.
Some days ago a Berkshire breeder made the statement that there never was a time in recent Berkshire history when the prospects were so good for active business with that breed. Those who attended the Sutton Farms sale of Berkshires at Lawrence, Kan., on March 2, had reason to believe that he knew what he was talking about. Although the day was pleasant the roads were in frightful condition, and local farmers and breeders were not present in numbers. The buying was done by outsiders, and that they wanted Black Robin Hound stuff was shown by the prices they were willing to pay for it. The sows which were bred early sold well and the bidding on each was keen. These which were bred late brought much lower prices and had fewer bidders. There were only a few boars in the offering, but these were choice and went for good prices. College Duke 9th 136790 by Barryton Duke, Jr., and out of a Barryton Duke 2d sow, brought the top price of the sale and sold for \$275, while Kansas Baron 7th 143383 by Barryton Duke, Jr., and out of a Longfellow sow stood next at \$250. Duke's Queen 17th 133859 by Barryton Duke, Jr., out of a Forest King sow, topped the female side of the sale at \$200. The sales were as follows:
BOARS.
C. A. Stewart, Fox, Ill.\$275
Harpending Bros., Dundee, N. Y. ... 250
FEMALES.
1. R. K. Potter, Pueblo, Colo. 125
2. C. A. Stewart, 90
3. Dr. Nash Collins, Delhi, La. 180
4. Kinloch Farm, Kirksville, Mo. 80
5. J. K. Murphy, Perkins, Colo. 50
6. J. K. Honneywell, Lincoln, Neb. 55
7. Hall Staunton, Quincy, Ill. 80
8. R. A. Bloomfield, Mt. Sterling, Ill. 90
9. Ralph Hager, Randolph, Kan. 60
10. (Sub.) Kinloch Farm, 90
11. R. A. Stewart, 150
12. Harry Blison, Eureka, Kan. 55
13. J. K. Honneywell, 85
14. Leon Walte, Winfield, Kan. 100
15. Dr. J. D. Kirk, Roanoke, Va. 95
16. G. C. Cloyes, Union City, Tenn. 70
17. Eugene Lippencott, Lima, O. 80
18. E. E. Gardner, Long Pine, Cal. 110
19. Gedney Farms, N. Y. 200
20. C. G. Craighead, Creighton, Mo. 100
21. Leon Walte, 65
22. Leon Walte, 65
23. G. C. Cloyes, 125
24. Levi Thieroff, Wamego, Kan. 75
25. C. G. Creighton, 85
26. R. A. Bloomfield, 80
27. C. A. Stewart, 100
28. Blow & Son, Teddy, Ala. 150
29. Leon Walte, 65
30. Perry Bros., Topeka, 195
31. C. A. Stewart, 75
32. Ralph Creighton, 50
33. E. F. Naylor, Union City, Tenn. 60
34. G. C. Cloyes, 100
35. C. A. Stewart, 105
36. G. C. Cloyes, 105
37. Leon Walte, 65
38. C. A. Stewart, 90
39. H. A. Schuler, Chapman, Kan. 55
40. Wheeler Bros., Brawley, Cal. 150

43. (Sub.) Weaver Stock Farm, Halley, Cal. 100
45. I. L. Wirrick, Rich Hill, Mo. 90
46. Levi Thieroff, 55
The average for the sale was \$105.
Finley's Jack Sale.
The fifth annual sale held by W. J. Finley at his home farm near Higginsville, Mo., on Wednesday and Thursday, March 1 and 2, was a great success. In this sale he disposed of 50 jacks and 50 jennets. The crowd in attendance was a good one and the bidding prompt, while the appreciation in which these animals were held is best told by the prices realized in the following report of sales:
JACKS.
1. W. H. Downs, Marshall, Mo.\$2025
2. I. W. Olive, Lexington, Neb. 1300
3. Emmett Sommer, Corder, Mo. 1050
4. W. M. Johnson, Odessa, Mo. 350
5. J. M. Caldwell, Knobroster, Mo. 790
6. S. B. Caldwell, Knobroster, Mo. 530
7. John Boydston, Centerville, Kan. 430
8. F. E. Dillard & Sons, Shamrock, Mo. 1200
9. Bill Johnson, Odessa, Mo. 560
10. F. M. Hutton, Lathrop, Mo. 970
11. Judge Bradley, Warrensburg, Mo. 675
12. J. Hock, Buckner, Mo. 395
13. A. M. Dunham, Garden City, Mo. 935
14. A. C. Potter, Marshall, Mo. 504
15. S. A. Upchurch, Clinton, Okla. 520
16. Alex Eckles, Buckner, Mo. 315
17. John Fox, Concordia, Mo. 770
18. Alex Eckles, 605
19. John Deimer, Innis, Neb. 680
20. D. L. Viles, Leocompton, Kan. 400
21. T. J. Snodgrass, Lincoln, Mo. 800
22. D. D. Krobby, Rain Valley, Mo. 1500
23. W. F. Schade, Jackson, Mo. 405
24. Sam Caldwell, Knobroster, Mo. 700
25. W. F. Schade, 520
26. W. F. Schade, 510
27. J. Jarvis, Peabody, Kan. 350
28. A. E. Rasley, Great Bend, Kan. 525
29. J. A. Winebrenner, Tipton, Mo. 660
30. A. C. Potter, Marshall, Mo. 605
31. James Victor, Mayview, Mo. 610
32. A. C. Potter, 400
33. L. M. Monsees, Smithton, Mo. 1200
34. J. S. Black, Lincoln, Neb. 1200
The jennets sold equally well in proportion, with No. 3 bringing the top price of \$1,050, and selling to Scott, Adney & Jenkins, Verdun, Ill.
SUMMARY.
28 jennets sold for...\$3,810; average 258.10
37 jacks sold for...\$25,455; average \$685.27
Got Any Alfalfa?
Attention of alfalfa growers is directed to the article on "Alfalfa, Its Seeding, Culture and Curing," which was prepared by Kansas noted authority, Prof. A. M. TenEyck, and is now offered for free distribution by the Deere & Mansur Co. of Moline, Ill. This well known firm manufactures a line of machinery suited to the handling of the alfalfa crop from the preparation of the seed bed to the storing of the hay, and is therefore interested in increasing the yield. Knowing full well that it will result in a greater de-

mand for machinery to take care of the crop. The article has been printed in a neat 30-page booklet, handsomely illustrated with single and double page pictures furnished by the Kansas State Agricultural College and will be mailed free of charge to every alfalfa grower who will write for it. Twenty-six pages of the book is devoted to the plant. The other four pages modestly call attention to the excellent Deere & Mansur line of machinery. Ask for Alfalfa Book 13B when writing Deere & Mansur, Moline, Ill.
Percheron Mare Sale.
On March 21, F. J. Coffey & Son will sell 10 head of Percheron mares, all young and bred to registered stallions; several matched teams of blacks, bays and grays. Mr. Coffey has been raising Percherons for several years and is making this sale to sell his surplus, but will sell some of the very best mares on the farm. Please look up ad on another page and arrange to attend this sale.
Last Call Miller & Manderschied Sale.
On March 17, F. J. Miller and E. J. Manderschied of St. John, Kan., will hold their Poland China sale that was formerly advertised for February 18. The same catalog will be used. All farmers and breeders are invited to attend and buy some of these good sows and gilts. Please see sale ad in this issue.
Hereford Judges for 1911.
The following judges for Hereford cattle have been selected for the American Royal Live Stock Show of 1911: S. W. Anderson, Blakers Mills, Va.; Dr. T. F. DeWitt, Colorado Springs, Colo.; and Senator T. J. Wornall, Liberty, Mo. For the International at Chicago the judges will be H. T. Smith, Hamilton, Mont.; John Latham, Lake Geneva, Wis.; and Abe Renick of Kentucky. The new Hereford secretary, R. J. Kinzer was unanimously recommended by the Hereford directors as a member of the American Royal board to represent the Hereford interests.
Dawley Sells Poles.
F. A. Dawley of Waldo, Kan., who has won an interstate reputation as a breeder of the best type of Poland China hogs, has decided to hold another of his famous sales. His advertisement tells all about it. He states that there will be some mighty good stuff go into this sale, especially the S. P. sows, and coming from Dawley you know what that means. Mark the date of this sale in your hat and be there ready to pick up some of the bargains which are sure to be offered. If you cannot possibly attend, send your bids to Jess R. Johnson of Kansas Farmer in Mr. Dawley's care and he will handle them conservatively.
Watson, Woods Bros. & Kelly.
Watson, Woods Bros. & Kelly, the big importers and breeders of draft stallions and mares at Lincoln, Neb., write: "You will be interested to know that February

was the best month for business we have ever had. We sold more stallions and mares than in any single month in the 30 years we have been in the business. We sold 22 head in three days. We sent stallions to Washington, Idaho, Montana, Wyoming, Colorado, Kansas, South Dakota, Minnesota, Iowa, Illinois, Ohio and Nebraska. We are making many new friends and our old friends never forget us. Mr. Watson arrived with another importation of 40 head. He has some of the best stallions and mares he has ever been able to buy in Europe. If the buyers keep coming in at the present rate and take horses back home with them, as they have been doing, this bunch will soon be gone, so we desire to urge buyers who are planning to visit us, to come now." Mr. Watson personally selects every horse in their barns. He is one of the best judges of horses in the United States. Don't fail to go to their barns and see their horses.
Stith and Martin Duroc Sale March 23.
In this issue of Kansas Farmer will be found the advertisement of Charles Stith and R. D. Martin of Eureka, Kan., two of the up-to-date breeders of Duroc Jersey hogs. At the head of Charles Stith's herd is a son of Top Commodore by old Commodore, the champion Duroc boar of Kentucky. At the head of R. D. Martin's herd are the great show and breeding boars, Dandy Duke, Model Duroc and Chief Tattarrax. Dandy Duke is a tried sire. He breeds both size and quality. This sale promises to be one of the best lot of sows and gilts to be sold this spring, and breeders and farmers should not fail to attend. Please look up ad on another page in this issue, send for a catalog and arrange to attend. Kindly mention Kansas Farmer when you write.
Shorthorn Bulls.
C. H. White of Burlington, Kan., is offering a few choice Shorthorn cows and two good young Scotch bulls. They are grandsons of the noted Choice Goods and are splendid individuals. Write for prices and mention Kansas Farmer.
Durocs With Quality.
Don't fail to get a catalog of E. S. Davis' Duroc sale at Meriden, Kan. This is a high class lot and breeders should not overlook the importance of attending this sale. Please look up ad and send for catalog. Mention Kansas Farmer.
Percheron Stallions.
Dr. W. H. Richards of Emporia, Kan., is offering a few high class imported Percheron stallions at prices that should move them quickly. Dr. Richards bought these stallions in France and bought only the best. They are a clean lot and sound as a bullet. Any one wanting a first class horse at a reasonable price can make no mistake if they buy from Dr. Richards at Emporia. We ask our readers to call and look them over. They are right and priced right. Please look up ad and arrange to call on Dr. Richards at Emporia, Kan.

Well, Folks, How Do You Like My Size?
Just Look Me Over Carefully, and Remember
That I Am A

Merry War Lye Hog

Healthy, Happy, Fat and Sleek

Was I Always In Prime Condition Like This? Well, I Should Say Not! Only a Couple of Months Ago I Was "Off My Feed", and Went Slinking 'Round the Lot With a Lack-Luster Stare In My Eyes, Losing Weight Daily and Taking Mighty Little Interest In Life. Things Began To Look Pretty Serious and I Could Almost See a Soap-Kettle "Finish" for Yours Truly, When My Owner Ran Across a Few Cans of This "Merry War" Lye. He Mixed Some of It With My Feed and

It Surely Saved My Life!

Right From the Very First Sip of Swill, "Merry War" Began To Tone Me Up. My Appetite Improved, and In a Few Days I Was Feeling Strong and Healthy, Taking On Firm Flesh and Juicy Fat Every Day. I Now Take "Merry War" Lye With All My Meals, and Know That I Am Safe From Worms, Cholera and All Those Pesky Hog Troubles.

Don't Lose A Single Hog!

With hogs bringing around \$10.00 you can't afford to lose a single head from Cholera, Worms or other hog troubles. And there is no reason why you should, either, Mr. Farmer! With the aid of MERRY WAR LYE you can readily keep your drove in a perfectly healthy condition and render them immune from contagious diseases. Before MERRY WAR LYE was discovered, you used to hear it said: "Oh, Cholera is incurable," "You can't prevent your hogs coming down with Cholera," etc., etc., but now millions of Farmers and Hog Raisers know differently. For they have been convinced by the testimony of others or by their own actual experience that a little MERRY WAR LYE fed with the swill every day will surely keep hogs in a perfectly healthy condition, increase their weight and render them immune to all contagious diseases.

Merry War Lye Not An Expense

MERRY WAR LYE is not an expense. It is an investment that yields an actual profit, because it not only prevents hog losses from Cholera, Worms, etc., but also puts on many pounds of additional flesh and fat. So the best thing you can possibly do to insure your pork profits is to feed MERRY WAR LYE every day, just as regularly as you feed the ordinary ration of swill or dry feed. The price of MERRY WAR LYE is so small you will hardly notice it, yet a fair trial will convince you that it is absolutely the safest and surest protection against hog troubles ever discovered. Just read the testimonials below (only a very few of hundreds received) and you will see how MERRY WAR LYE is regarded by Farmers and Hog Raisers who have used it in many different sections of the country.

Follow Directions Carefully

MERRY WAR LYE comes in powdered form put up in cans with the convenient turning top covers. It should be fed as follows: Mix one (1) tablespoonful MERRY WAR LYE with slop for ten (10) hogs, or one-half (1/2) can with barrel of swill. Stir well and feed night and morning. If your hogs are on a dry feed ration, mix one-half (1/2) can MERRY WAR LYE to each barrel of drinking water. The best insurance in the world against hog losses is to feed MERRY WAR LYE daily. It cleanses the system, tones the digestive organs, puts sick hogs in fine shape, and makes them absolutely immune to all contagious diseases. Thousands of Hog Raisers have proved by actual experience that MERRY WAR LYE both prevents and cures all hog troubles. You simply can't afford to be without it! Call on your dealer today.

"Merry War" Lye Insures Hog Health

Kills Worms—Prevents Cholera—Adds Weight

Mr. H. G. Acker, Chickasha, Okla., writes: "I have been feeding MERRY WAR LYE some two months, and it expelled worms from my hogs after the first few feeds. My hogs are apparently well and look fine. Their hair has a good, glossy color; they have good appetites. One of my neighbors, an extensive hog raiser, has recently used your MERRY WAR LYE, upon my recommendation, with good results."

Mr. J. W. Fountain, Bowling Green, Mo., writes: "I have found good results in feeding MERRY WAR LYE with tankage. It is fine."

Mr. B. S. Row, Gracemont, Okla., writes: "I had my groceryman order a case of MERRY WAR LYE for me. I have fed it to my hogs and have had good results. Also advised other hog raisers and they have fed it with marked results. It is a sure worm killer."

Mrs. Verna Thixton, Fortuna, Mo., writes: "We never had any sick hogs since using MERRY WAR LYE."

Mr. A. W. Davis, Hamlin, Iowa, writes: "I haven't had time to test MERRY WAR LYE much, but what I have is highly satisfactory. My hogs, over 100 head, are looking fine. MERRY WAR LYE is the stuff to cure cough and thumps and put hogs in a thrifty condition and I will never be without it while I raise hogs."

Mr. Adam Schultz, McLouth, Kansas, writes: "I have given MERRY WAR LYE a good trial, and it has made a marked improvement in my herd. Before I began feeding the lye I did not have any sick hogs, but they did not eat as they should when they are doing as they ought to, and they looked rough and their hair was rough and sometimes some of them would not eat at all, and some would eat a little and then go off and lay down; but after I had fed MERRY WAR LYE about eight or ten days, they began to all come out at meal time and take a hold as they should to eat. They jump and play as they did not do before. I fed MERRY WAR LYE, and they now look sleek and thrifty. I only fed nine cans to about 60 head, and they are every one doing fine. I consider MERRY WAR 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 LYE. My son got one-half of the two dozen cans and he has fed all of his to about 60 head and they are doing fine now."

Mr. Parley C. Crolley, Patrick, S. C., writes: "Accept my heartiest appreciation of your MERRY WAR LYE, as it is making my hogs look like new hogs."

Mrs. B. Aholt, Mo., writes: "I cooked potatoes, turnips, or any kind of refuse, such as cabbage and other roots; seasoned it, then turned it into barrels; put one can of MERRY WAR LYE in two barrels of the cooked food, which I thickened with shipstiff and fed twice a day. It surely prevented our hogs from getting the cholera, while our neighbors lost all of theirs."

Mr. H. F. Gustoff, Coon Rapids, Iowa, writes: "MERRY WAR LYE is the best destroyer of worms in hogs I ever used. It is all right."

Mr. Alvin Trueblood, Salem, Iowa, writes: "I am well pleased with what I have fed of MERRY WAR LYE. It is the best thing I ever fed hogs."

Mrs. T. Atkins, Hoxie, Ark., writes: "MERRY WAR LYE is all the LYE that we use. Before we began using it we had a lot of hogs with Cholera. We used MERRY WAR LYE and it cured our hogs."

Mr. Felix Davis, Gold Dust, Tenn., writes: "MERRY WAR LYE is O. K., for I use it on my own stock."

C. R. McClure, Bonesteel, S. D., writes: "As I have been using MERRY WAR LYE this summer, I thought you would like to hear of the success I have had with it. We have not a runt in our pens this fall; used MERRY WAR LYE in drinking water. We gave MERRY WAR LYE to our fattening hogs and they fattened much quicker than when we fed no MERRY WAR LYE. I recommend it highly."

Ask Your Dealer For Merry War Lye

Ask your dealer for MERRY WAR LYE—and INSIST on getting it! There are OTHER brands of lye put up for certain household uses, but only one—MERRY WAR—is absolutely SAFE and specially prepared for PREVENTING and CURING cholera, worms and all hog diseases.

So, if your dealer can't supply you, write us and we will give you the name of one who can; and will also send you a valuable book on "HOW TO GET THE BIGGEST PROFITS FROM HOG RAISING." Send for this book today.

MERRY WAR POWDERED LYE comes in 10c cans, or 24 for \$2.00, at Grocers' or Druggists'. There are no substitutes for MERRY WAR LYE!

E. Myers Lye Co., Dept. 12 St. Louis, Mo.



Readers:

You need have no fear, whatever, to feed "MERRY WAR LYE" to your Hogs in quantities as directed above, because it is specially prepared for hog use. Be careful, however, that you do not use ordinary Lye. See that the name, "MERRY WAR", is on the can, because it is the only Lye absolutely safe to use for this special purpose.