KANSAS FARMER

FOR THE IMPROVEMENT

OF TARM AND HOME

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MORE BIG RED APPLES

Horticulture is considered advanced agriculture. It is thought of and called by many people a higher branch of farming. There are others, however, who find no interest in it or else have lost what they ever possessed. Whether horticulture is an advanced branch of agriculture or not, the carefulness of its methods and the earnestness of its votaries entitle it to every respect. Most people appreciate the products produced by the horticulturist, but few who are not actively engaged in the business can realize the difficulties with which he has to contend.

Forty-four years ago the Kansas State Horticultural Society was organized and started forth to fulfill its mission. Its field of usefulness was new and untried. Its earlier members found conditions in this state under which no one had tried to produce fruit in any section of America. Problems which the earlier horticulturist faced were many and serious. They not only had to learn by experiment whether fruit trees would grow and produce on the treeless plains of Kansas, but they had also to learn what varieties would withstand the hot winds of summer and the cold blasts of winter and still bring of their fruits as a reward for their care. As soon as these earlier questions were determined in part, others confronted the horticulturist in the shape of new or little known diseases and insect pests, which added to his labors and compelled a remarshaling of his forces. These battles are still go-

In addition to all the other influences which the horticulturist has to combat there now seems to be a new and unexpected opponent in the field. This is indifference and is said to be at-tributable entirely to the great prosperity enjoyed by the farmers in the past few years. This prosperity, which has come through the high price of grain and live stock, has tempted away from the orchard many man who would not have been see men who would not have been so tempted but for the greater remuneration offered in the other fields. Ever since the days of Adam men have liked the fruits of tree and shrub and vine, and he who would live longest and enjoy the best health is he who food. This indifference is largely accidental and can not prevail long, and a little of the enthusiasm which is shown by the members of the State Horticultural Society at their annual meeting would, if spread broadcast throughout the land, bring about a revival in horticulture and its methods.

ing on though many victories have been won and the State Horticultural Society has been the leader in the contest which has made all the advances that have been made against

orchard enemies in Kansas.

Formerly men looked upon their farms as homes upon which to raise their families and to spend their lives. This mental attitude caused them to desire such comforts as they could procure for themselves and their dependents. They planted orchards as among the first of the necessary equipments of the newly made farm. These orchards and such small fruits as they could procure were considered among the essential com-

State Horticultural Society Meets In Forty-Fourth Annual Session

forts of farm life. There are many members now actively in the harness who are yet as enthusiastic as they were in the earlier days when their orchards were first planted. Many of these have planted more than one orchard and one honored member had the reputation of owning the largest apple orchard in the world. His example has been followed by others who have planted enormous areas to fruit trees, and kept up the reputation of the state as a fruit producer.

who have planted enormous areas to fruit trees, and kept up the reputation of the state as a fruit producer.

It happens, however, that the newer generation of farmers seems to look upon the farm merely as a business proposition, and they reside there for convenience in managing it. Not only is this true but they seem to have a desire to win their fortunes from their farms as quickly as may

be, regardless of the effect upon the farm itself. This may be a different phase of the indifference to orchard culture which is complained of, or it may be a different thing entirely. It does seem, however, from knowledge gained by observation and the information of others, that orchard planting in Kansas is on the wane rather than on the increase. Old orchards that have sheltered the children in their play hours and furnished them delicious fruits during their whole lives are allowed to deteriorate from lack of care, and no orchard can succeed in this climate and under Kansas conditions without some care. The great middle west is guilty in its entirety of the charge of skimming off the cream of the soil with temporary crops and giving little thought or

care to that which is of permanent value.

This somewhat pessimistic view of the horticultural situation in Kansas is that which is held and expressed by many people who are interested in the welfare of the state and the progress of agriculture in its broadest meaning. If these people could have been present at the meeting of the State Board of Horticulture held at Topeka last week, they would have been compelled to take a more optimistic view. Lead by the old war horses of the State Society, and interested because of the beauty and utility of tree and vine as well as its financial worth, younger men have fallen into line and are prosecuting the work so well begun by the fath-

Kansas has been and should continue to be a fruit growing country. It is deubtful if any section of earth has more natural advantages for such a purpose than the "grassy guadrangle which geographers call Kansas." Fruit is something that is very generally desired but quite frequently neglected. It cannot be had with any regularity or abundance except through careful methods and intelligent planting and cultivation. Science has entered into its production more than ever before and he who wins must have knowledge.

One of the most interesting papers that was presented at the meeting of the State Association was the report of the State Entomological Commis-sion. As a matter of fact the report of this commission was embodied in individual papers presented by its members. Hampered as this board has been by meager appropriations and a double duty for its members, it was still able to show great prog-ress in its combat with destructive insects and diseases since it came into existence. The San Jose scale has infected the orchards of a few localities in the state, and the report of this commission was largely taken up in discussing the ways and means adopted for their successful battle with this almost unconquerable pest. The lime sulphur dip was shown to be the most efficient remedy yet discovered if it be applied intelligently and at the proper season. Winter spraying was a thing not dreamed of by early horticulturists, and yet it is found to be most effective with the San Jose scale when the lime sulphur spray is used. Soluble oils are also effective, but are much more difficult of application because of the nature of the compound. Unless well mixed the oil is likely to separate so that the pump will deliver almost pure oil on some trees and practically pure water on others. Those which re-ceive the oil are injured and those receiving the water are not benefited.

The reports of the trustees, each one of whom is in charge of the horticultural interests of a Congressional District, were unusually interesting. Percentages of yield for a year were shown, and general horticultural conditions were explained, together with the present condition of the trees and the prospects for the ensuing season. The program as published in last week's Kannas Farmer was followed carefully, the papers proved to be (Continued on page 15.)

ALWAYS WORTH HAVING

"Reviewing it for last year, through this index, I am persuaded it would be as poor business to let my insurance lapse as to let my subscription expire."

An Interesting Coming Country

John L. Papes, Editor Mulvane, Kansas, News, Takes a Jaunt Over the new Irrigation Proposition and Believes It Has a Great Outcome—A Very Interesting Trip Through a Coming Country

(From the Mulvane News.)

To change a vast and compara-tively barren waste, where nothing but an occasional cactus bush or ant heap now breaks the monotony of arid plain, and convert it into a veritable garden where flowers, fruit and waving grain shall make the hearts of thousands of husbandmen rejoice. is an enterprise which may well arouse the enthusiasm of its pro-

Such an enterprise is now well under way, with every promise of early completion, near the city of Pueblo, in the state of Colorado. It is the enterprise of the Pueblo-Rocky Ford Land Co., of Topeka, Kan., the president of the company being B. H. Tallmadge, and the vice president F. C. Tallmadge, both experienced land

In order that we might have direct evidence on this immense preposition, the writer made a trip to Colorado last week, together with sever-al from this community, and will no longer have to depend upon hearsay evidence when the stories told him of the big things accomplished on ir-rigated lands seem too big to be-

Leaving Mulvane Wednesday afternoon, we arrived in Pueblo before daylight Thursday morning, and, after a substantial breakfast, were ready 7:30 to join the large company of land-seekers for the sixty-mile trip by automobile to the reservoirs where the waters are to be stored to irrigate the 100,000 acres of land owned by this company. There were six-teen automobile loads in the party, and as we whirled away toward the south the great mountains to our right, which seemed but a mile of their twenty away, presented an ever-changing view. Far away to the south the Spanish peaks, their snowcapped heads showing the white of old age, stood like sentinels on guard of some rich possession. On went the gas wagons at twenty miles an hour, up a grade, then down a slope into some little valley where the luxuriant alfalfa in field and stack told eloquent stories of what a little water, a little soil and some Colorado sunshine would do. Then up a little higher grade until the foot-hills began to show quite plainly their proximity, when we came to a good sized lake, across the mouth of which a dam was being built by a large force

of men. This is known as reservoir No. 3, and the engineers give it a capacity of 14,000 acre feet-that is, of the equal foot of water over 14,000 acres. It is claimed that twelve inches of water if placed at the proper time is all the additional moisture needed to grow crops in this part or Colorado. This take will empty its waters into Huerfano river at the will of the company, be carried down the river to the company's ditch, and be diverted there and spread through main canal and laterals to every tract of land owned or sold by the company.

From here we went to reservoir No. 1, a basin called Bradford's lake, where a body of water three miles across and twelve miles around will be held in storage for summer use. This lake will be filled by diverting the water from the Huerfano river through an immense canal, into the lake, and then through a second canal it may be turned back into the river at the will of the company, and put to the use of irrigation at such time as it is most needed. This lake has a capacity of 92,000 acre feet. The Fluerfano is a stream with a bed similar to that of the Ninnescah, and carries the water of a territory covering 1,200 square miles where the annual rainfall is 22 inches. At this season of the year the river has but little water in it, and was easily forded by the automobiles, but it shows signs of being a powerful stream in the spring and early sum-

Besides these two reservoirs the company has four others, with a total capacity of about 250,000 acre feet, or two and one-half times as much as is needed for the land in question. We were taken to where the great diversion dam of steel and concrete is being built across the Huerfano by a large force of men. The route also took us past the great diversion ditch upon which two monstrous steam shovels are eating their way through the earth in strenuous effort to get together in the next four weeks. They are now about a mile apart, and the ditch they are making is the second largest irrigation ditch in the whole country.

From the reservoirs we were driven to the little town of Huerfano, where we deserted the automobiles, taking a srecial train back to Pueblo and through to Canon City, the home of

good coal, and they have also one of the most marvelous irrigated sections in the world. Here the average larm is about five acres, with fruit as the principal crop, and the yield from \$300 to \$500 per acre. The tales they tell of crops produced are almost un-believable, until you price their land, but when they talk from one to three thousand an acre, you begin to realize there must be something to it. in Canon City one can't tell when he is in the country. A drive of two or three miles will show you the houses almost as close together as in Mulvane, and all well improved, clean and modern in appearance. It was some such vision as this that Caleb saw of old when he brought back the big grapes from Eschol.

It is a pretty trip from Pueblo to Canon up the valley of the Arkansas, and if you wanted scenery, the woods are full of it, with the Royal gorge only a tew miles away. Returning to Pueblo for a good

night's sleep and breakfast, the party was ready at 8 o'clock Friday for another jaunt. A ride through Mineral park, said to be one of the most beautiful in the entire country, started the day's sight seeing, and a long ride east through orchard and alfalfa and sugar beet fields, again demonstrated the many possibilities of irrigation. The old Bessemer ditch was promoted by the C. F. and I. company, and they sold the lands to the employes of their smelters. Today these old smelter workers are all wealthy and are holding their lands at from \$300 to \$1,000 an acre.

After a dozen miles through one continuous garden we crossed the ditch onto the company's land. The soil was exactly the same as the valuable land fifteen feet away, but it had no value except for the scattering tufts of buffalo grass, until the comsame climate, the same soil-new and unworked soil, with all its original fertility—water is all it lacks to make it better than that that is being held at such fabulous values. This new tract is triangular in shape, with Pueblo as one point, and the other two points one about twenty miles east and the other the same distance southeast. In the center of this tract lies the proposed town of Wilson, comprising a level site a mile square, in which the company gives a lot to all the bona fide land seekers who go

out and look at the proposition. There is a hotel building almost compieted, and there will be other boildings erected as soon as the sections go in in the spring, and it cannot help making a good town, with a farmer on every ten and twenty acres adjoining. The land for miles is a gentle slope to the northeast, and is as pretty as you could hope to see, and is undoubtedly the finest lying single body of irrigable land in the world. Those who understand irrigation say it is perfect for the purpose. With an elevation of from 4,200 to 4,600, one gets a fine climate in both summer and winter, and with dry crop seasons the finest fruits and grains can be raised and cared for without loss. An interurban railroad between Pueblo and Wilson is promised for next year, which will put the farmers in close touch with the markets of the world.

This company is no fake. It is composed of eastern capitalists who have spent or will spend something over \$4,000,000 on the project. They have just opened these lands for sale to the public at \$150 per acre, including a perpetual water right. The company is making an effort to people this new country with the very best class of citizenship. It is selling its tracts to people out of selected communities in Kansas, Nebraska and Iowa. Its terms are so liberal-10 per cent down and the balance in twenty annual payments—that it looks like a poor man's opportunity, as well as the rich man's chance. The cost of selling this land takes all the company gets out of the first payment. In order for it to get back its four millions it must furnish plenty of water, and have farmers on the land who will make it out of the soil. What better guarantee could be asked that the proposition is legitimate and that it will be a success? It is as certain as anything can be in this world that the industrious man can make his payments, his living and a profit off this land after the first year. Twenty acres is a good sized farm, instead of a quarter section here.

The trip is a cheap and inexpensive one, and for education alone is worth more than it costs. It only takes a part of a week to do a lot of sight seeing. We left Pueblo at midnight Friday and could have been home Saturday afternoon at 3:35.

Here's Why You Are Sure to Be Interested

It Costs You Nothing to Investigate

There has never been an irrigation project offered to the farmers of this country which met with such instantaneous success, nor which created so much enthusiasm as has our project in the Pueblo-Rocky Ford district.

Every one who has examined it pronounces it ideal in every respect.

an irrigated Just think of being able to buy farm adjacent to Pueblo, a city of 60,000 people, with five trunk lines of railroad, and with all the conveniences of modern life.

Think of being able to get this land on the easy terms of 10 per cent down, with twenty annual payments on the balance.

Think of a farm on which you control weather conditions absolutely; with soil as fertile as any in the entire country; with sunshine the greater

of moisture you need, whenever you need it.

Can you imagine a more desirable location or more favorable conditions?

NEXT EXCURSION

Leaves Kansas City and

Topeka Wednesday, JANUARY 4th Land and Perpetual Storage Water Rights \$150 per acre, 10 per cent down.
Twenty Annual Payments.

I want to send to every reader of Kansas Farmer some of our booklets, showing what is being done on this land. But our literature does

not half tell the story. You will never appreciate the full value of our offer until you visit the land for yourself. Take a little holiday and join us on one of our excursions. You will have a good time; you will see one of the biggest irrigation projects in the country; you will meet pleasant people, and whether you decide to invest or not, you will come back well pleased with the trip and glad that you made it.

You do not Give this careful consideration. often have such an opportunity as this. Write to me today; or if there isn't time for that, wire at my expense, and I will arrange to take care of you on the next excursion. We run our own Pullman and dining cars, and see that you are made com-Very truly yours, B. H. TALLMADGE, fortable.

President.

The Pueblo-Rocky Ford Land Co.

General Offices: New England Bldg., Topeka, Kan.

B. H. TALLMADGE, President.

F. C. TALLMADGE, Vice-President.



UTILIZING WASTE LAND.

Up in Doniphan county there is a large area of Missouri river blun and other rough land which, until recently, had but little market value. It is much too rough and stony for use in ordinary farm operations and its only value to the owners came through its timber or its use for pasture.

Somebody at some time in the re-cent past discovered that this land was really valuable for orchard and small fruit production. knowledge spread the market grew and five years ago there was organized a fruit growers' association of 12 members. These members cooperated in marketing their fruits and the association grew in numbers: It now numbers 150 members and has re-cently erected a city building, at a cost of \$20,000 for its accommodation. This building contains an assentity room for the association and offices for its executives. Other parts of it are rented for offices from which a good revenue is derived. The association also owns a large warehouse from which the packing and shipping is done. The members share pro rata in all losses and gains.

During the past season this county shipped to outside markets threequarters of a million dollars worth of fruits besides what was sold and consumed at home. While no figures are obtainable it is possible that a million dollars would represent the value of the fruit and berry crop of 1910 taken from this rough land in one of the smallest counties of the state.

Not only was this great revenue derived from land which had previously been considered as being practically worthless but the bulk of it came from berries. Indeed, our informant stated that the orchard conditions in Doniphan county are "simply disgraceful." This is not because the land is not suitable for orchard culture nor because orchards are not profitable there but simply because the profitable business of berry growhas taken the time and attention of the farmers and they have neglected the orchards.

Here then is a case in which practically worthless land has been made very valuable in a few years by taking advantage of opportunities. is now selling as high as \$300 per acre which a few years ago went begging at \$10. Here, also, is a case where the farmers are not getting the most they can get out of the land because of their neglect of the orchards.

Kansas has more "bugs" than many

countries and more than her share, according to some of her citizens. The abundance of insect life is attributable to at least two prominent The great abundance of food supply afforded them in our luxuriant crops and the wanton destruction of our birds. Most birds are insect eaters and but for them Kansas farmers would have a much more bitter struggle for success. According to the prophets the year 1911 will be the time for the appearance of the 17 year locust and a new burden will be added. Each farmer owes it to himself and to his neighbors to prevent the killing of any kind of birds on his farm or the adjacent roadways or the robbing of bird nests by any agency whether two or four footed. It is only by cooperation backed by necessary enforcement of law that great good can be obtained.

The American Breeders Association will hold its next annual meeting at Columbus, Ohio, on February 1 to 3, inclusive. The National Corn Growers Association will be in session at the same time and place and the visitor will find a rich double treat in store for himself. The American Breeders Association has for its object the study of questions pertaining to breeding of plants and animals and of heredity. Its officers and most active members are among the most noted men in the nation. James Wilson, Secretary of Agriculture, is the president. Willet M. Hays, Assistant Secretary of Agriculture, is secretary Secretary of Agriculture, is secretary and Walter T. Swingle, David G. Fairchild and D. G. Lantz, formerly of the Kansas Agricultural College, are chairmen of important standing com-

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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.

COLLEGE CATTLE WIN.

Twenty-four prizes, including one championship, five first prizes, three second prizes and five third prizes, with numerous special prizes, were won in the International Live Stock Exposition at Chicago, recently, by the Kansas State Agricultural College. In money, the cattle from this college won \$1,145. The other competing colleges won prize money in these amounts: Iowa, \$1,165; Nepeting conleges won prize money in these amounts: Iowa, \$1,165; Ne-braska, \$545; Missouri, \$360; Indiana, \$165; and Ohio, \$80. The Kansas State Agricultural College had the best first and fourth Shorthorn herd at the show, and it won the special prize on grade and pure bred herds. It had the champion 2 year old steer of all breeds, Purity, a white Short-born bred by T. J. Wornall, Liberty, Mo., exhibited by the college the last two seasons. A red and white Shorthorn steer, Barmpton, bred by T. K. Tomson & Sons, Dover, Kan., was the best Shorthorn calf at the exposition, and Orange Dale, another Shorthorn, was fourth. The value of this result lies not so much in the prizes won as in the education of the people in a knowledge of the possibilities to be attained and the methods of attaining

One of the prominent subjects of discussion at several farmers' institutes held recently was that of tile drainage and information upon this subject is eagerly sought by farmers. They realize that wet land has a high price and costs high taxes and yet produces nothing. They also realize that tiling will not only render this land available for cropping in wet seasons but will improve it in dry.
One farmer stated that the entire cost of tile draining his farm had been paid by the increased yield of two years while he now has his farm in shape to make bigger money each year in the future. He is now clearing 10 per cent on a valuation of \$300 per acre.

Metals sometimes suffer from an infectious disease which causes blisters and ultimate destruction by crumbling to dust. A piece of metal which is in use or which is occasionally heated to 20 degrees centigrade will not contract this disease, but if placed in contact with a diseased piece and kept undisturbed in a cool place for some time, a metal will contract the disease and become

ARMY HORSES.

The recent decline in the business of breeding saddle and race horses has made it very difficult for the war department to secure mounts for the cavalry and artillery branches of the Suitable horses for these purposes are only to be found scattered here and there about the country, and their type is not uniform. The Quartermaster General of the army has therefore joined with the Department of Agriculture in asking Congress to authorize the Department to cooperate with individual farmers for the purpose of breeding horses of a definite type in order tha the annual demand for 2,000 such horses may be met in quality and numbers and that they may be more readily accessable. As the matter now stands horse buyers are obliged to scour the country for such horses as are needed and of late the War Department has not been able to satisfy its needs. * * *

Market hogs have increased in value although they are not back to the prices of several weeks ago. Packers are buying more eagerly than when the prices were going downward. Prospects are that fair prices for hogs will continue for some time as the consumption is greater than production and the chase to catch up will be a long one. * * *

The recent action of the Department of Agriculture in withdrawing its recognition of American Pedigree Record Associations is of no serious moment to breeders as it has nothing to de with any animals except foreign born animals which are imported to this country. * *

As a matter of economy the farmers are doing more of their own killing and packing than formerly. Too many farmers do not know how to properly cure meat but if they had ice houses they could enjoy fresh meat oftener, especially in summer.

* * * Ex-governor W. D. Hoard Atkinson has resigned his position as president of the board of regents of the University of Wisconsin, on account of poor health. The board of regents accepted his resignation with a resolution of regret and an expresion of their appreciation of his services on the board.

"Kansas alfalfa is now selling at an average price of about \$8 per ton. Eastern dairymen and poultry raisers are paying \$25 per ton for it. If these eastern farmers can afford to pay that price, then Kansas farmers are getting only one-third of its value for it. By feeding it into butter, pork, eggs or beef the Kansas farmer can get full value for it and make a clear profit on the manure. Kansas farmers cannot afford to sell alfalfa from their farms."-Dean Ed. H. Webster.

GRAIN PRICES.

Accustomed to good grain prices during the last few years the farmer is now asking what are the prospects in the near future. The present trend of the market gives him a right to ask this. Dealers and others in position to know give little encourage-ment that dollar wheat and 60 cent corn are within easy reaching distance. The condition is peculiar as our grains are not selling for export even at present prices. Russia and Australia seem to have control of the world markets because they sell at prices which we have not yet offered. America has been a factor in this market in years of heavy surplus such as this but seems not to be now.

The agricultural pendulum swings as do those in other lines of business and it may be that the present condition is a blessing in disguise. It may be that the low prices which are promised the grain growing farmer in the future will induce him to stop robbing the land which feeds him and engage in a more rational form of agriculture. It may induce him to go into live stock breeding and feeding and thus wipe out the shortage of meat producing animals so much complained of and at the same time restore the fertility of the soil through animal husbandry.

Stock raising is and must be the foundation of any system of progressive farming. Kansas soils have an abundance of plant food yet remain-ing in them in most localities but the humus has been consumed through continuous grain cropping. stock raising is at once the cheapest and most effective means of correcting this evil and gaining back that fertility with which nature presented us and which should never have been depleted.

Kansas is a great grain growing state but this is true because of average and not because of high yields. Our yields per acre are very low and are getting lower each year. With live stock we have the best paying market possible to obtain for our crops and that right on the home

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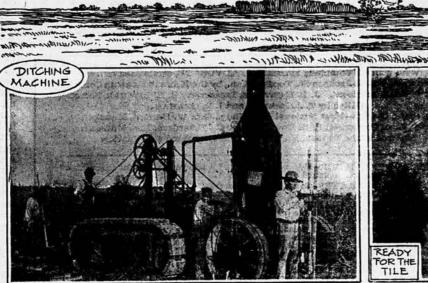
Shawnee county leads off in 'the movement for good roads by the organization of a county highway com-This body was organized mission. last week and is composed of all the township officers and road overseers of the county with the county engineer as an ex-officio member. Its primary purpose is to secure a system of better roads for the county by a careful and united study of ways and To this end exact informameans. tion about each road in the county will be secured and accurate road maps will be furnished the township road officers by the county engineer. He will also supply information about drainage districts, bridges and culverts and will cooperate with the officers in securing not only better roads but a more uniform system throughout the county. * * *

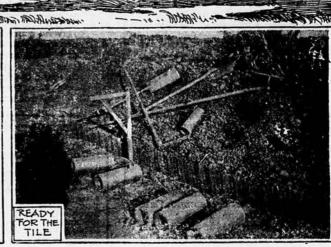
Plans are now on foot to have the state banks of Kansas join the Anti-This for Horse Thief Association. their better protection against bank robbers. The Anti-Horse Thief Association was organized primarily, for the protection of its members against horse thieves who so infested the borders of Kansas, Missouri and Arkansas before the state of Oklahoma was admitted to the Union. At that time horse thieves could raid the adjoining states and find safety with their booty in the Indian Territory. Since that time this association has broadened its field of usefulness as well as increased its membership. Its purpose now is to assist all civil officers in the discharge of their duty in catching all classes of criminals. It never undertakes to assume the duties of these officers but does render much and valuable assistance in catching offenders against the laws of property and person. A A A

The ice house is not a very difficult or expensive thing to build and is not badly needed now but think what a joy it would bring next summer.

FARM DRAINAGE IN KANSAS







Drain Tile Protects Against Wet and Helps in Dry Weather

By J. G. HANEY, Oswego, Kan.

We, of the great "American Desert "Semi-arid West," etc., have not taken a very great interest in "farm drainage." However, if the land susceptitble of reclamation by drainage, in Kansas, had been in wheat last year, we would have had 10,560,000 year, we would have had 10,560,000 bushels more wheat to buy automobiles with. How? If you will take an old township map of Labette county, Kansas, you will find that the east half of the southeast ¼ of section 35, township 33, range 21 east, is marked "swamp." The map is in error, as there are eighty acres northeast of the creek on this quarter. It has been cleared for several years and was tiled out (see sketch) the winter of 1905-6, and this year produced 30 bushels of 60 and 61 pound wheat per acre. This land doubtless is, or was, below the averdoubtless is, or was, below the average of the 352,000 acres of Kansas land that is classed as "swampy and subject to overflow," and which could be reclaimed, as the above was, at a cost of not to exceed \$25 per acre, including levying and tiling.

By way of introduction: In the five years that I have been manager of the Deming Ranch, we have en closed 2,500 acres of the ranch in a levee ten miles long, with an average height of seven feet, being three feet height of seven feet, being three feet above the highest water ever known. A pumping plant is installed on the lowest point in the ranch, capable of pumping 7,200 gallons of water per minute over the levee. This is for the purpose of keeping the large ditches drained so that the tile can draw the water out of the fields. When the river is low outside, water from the inside runs out through gates which close when the river rises, and keep flood water off the land enclosed. land enclosed.

We now have 650 acres tiled—tile laid 75 to 100 feet apart, at an average depth of three feet, making over fifty-five miles of tile, more than the distance from Topeka to the Agricultural College. A Buckeye Tile Ditcher is working every day—when we can get tile—digging ditch for more tile.

WHY ALL THIS EXPENSE? Drainage does many things. A few years ago in this locality, the principal medicine dispensed by the drug stores was quinine. Now, malaria is very rare. Health is the most important consideration of all, and large open ditches, draining the old lake beds and ponds—removing stagnant water—the breeding place of mos-quitoes—no one questions the value of. Malaria, rheumatism, and con-sumption are prevalent in undrained regions. Persons living in wet, undrained localities, if they do not succumb altogether, become so impreg-nated with malaria, etc., that they have no ambition, and worst of all, are invariably opposed to the formation of drainage districts or any improvements which might better this condition. I was told by a number of parties when I came here, five years ago, that a big fellow like me (I am six feet, two inches, and weigh 225 pounds), from the "short grass country," couldn't stand it "out there on them bottoms;" so drainage fits a locality for people to live and work in cality for people to live and work in, and enjoy good health. Also as be-fore inferred, land worthless for farming is made to yield with the best.

There are two kinds of drainage— one just as important and valuable as the other. However, an open ditch will not take the place of a tile drain, nor will a tile drain take the place of an open ditch. Land to be drained must be examined, or surveyed, and some one with experience should judge where open ditches and where tile ditches should be placed.

In general, open ditches must be used to carry off the flood waters, and to make outlets for the tile systems. In level land, by using large sized tile, open ditches may not be necessite, sary closer than one mile apart, as 160 acres may be drained by one sys-tem. However, all these questions must be answered after examining the locality under consideration.

WHEN IS DRAINAGE NEEDED, AND WHY? It will probably be found that much land now considered dry enough to farm will be greatly improved by tile drainage. Certainly all land that is too wet at any part of the year should be drained.

None of the crops commonly grown will produce profitably in a water-soaked soil. Every flower pot is provided with a hole in the bottom, and many young folks have had the experience of trying to grow plants in cans without a hole near the bottom for drainage. If just the right amount of moisture was provided as needed, there might not be any trouble, but a little too much gives the plant a yellow, sickly appearance in a short time. So, with the corn, wheat and oats in the spring—if the ground is too full of water. We noticed this on a field we tiled last year, and planted to corn -midway between the tile lines, the water did not drain away so readily, and the corn was not of as good color and was not nearly so large early in the season—the field having a wavy appearance.

Tile drains are superior to open ditches in that the water is drawn out from below, and as the water runs out air must follow into the soil. Air contains carbon-dioxide, which when absorbed by the soil, has the effect of loosening it, as lime would. We notice our heavy gumbo soils that have been tiled four years are much looser, more easily plowed, and of course, yield much better crops.

On water-soaked soils, all the vegetable matter completely decays—there is a lack of humus in the soil. We find that on the tiled land, the grass roots, straw, etc., when plowed under, does not entirely disappear, but become a part of the soil, giving it life. Of course, we find tiled land drier during rainy seasons. We can work the tiled land several days before we can the untiled land. We also find that tiling prevents drouths, because of the above mentioned fact of its bettering the physical condition. The partially decomposed vegetable matter, or humus, that remains in a drained soil holds the moisture. Also

the drains being open, air enters, is cooled, and the vapor condensed in the tile. The surplus water being drawn out from below prevents the accumulation of soil salts, which would be left by evaporation. On soils that are slightly alkaline, this may be a serious matter, as so much may accumulate as to prevent crops growing. These salts tend to compact the surface, thereby aiding capillary force in bringing too much moisture to the surface—often drying the soil until it cracks open to a great depth.

Tiling of alkali lands is practiced in the west to remove the alkali. After tiling the land, it is then flooded frequently for a year or so, and the al-kali washed out of the soil to such an extent as to make possible the grow-

ing of crops.
Tiling is not new. We find that the Romans made tile, and the sup-posedly enchanted gardens of the old monks during the dark ages were tiled—the tile was the secret of the enchantment.

In the eastern states, many forms of under drainage have been practiced, but all for the same effect. The present hollow, hard-burned clay tile, cr cement tile, gives the desired relief, and it is hard to see how they can be improved upon. The question of glazed or porous tile is often raised. I believe that the water enters at the joints, or will enter there, and that durability is the only question of importance. Hard-burned tile will certainly outlast the soft burned open tile, and I believe give as good

The eastern states have used, and are using, a great deal of tile. They find it profitable to do so, and I am told that banks will lend a farmer money for putting in tile more readily than for any other purpose. They know that if a man tiles his land, he will grow good crops, and be able to pay it back promptly.

WHAT IS DRAINAGE, AND HOW IS IT DONE?

Open ditches are constructed to remove surface water, and overflows. The work may be done by spade and scraper use of traction and floating dredges. The latter are made in many styles and sizes, and are economical for putting in big ditches and levees.

In constructing our levee, we used a traction dredge, the machinery being mounted on four, four-wheeled trucks, that ran on two lines of railroad track, the track being in sections, and were taken up behind and then put down ahead as the machine moved along. The machinery consisted of one thirty horse-power double hoisting engine, which handled an orange peel bucket capable of moving one yard of dirt at a time. A smaller engine swung the boom, and moved the machine as needed. sixty horse-power horizontal boiler furnished the power. The boom had a swing of 75 feet, and a rise of

The machines are nearly 20 feet. durable, but quite expensive for re-pairs, or supplies. Such machines cost about \$4,000, and while it took 26 months to build our levee, the machine would complete another similar job with very little repairing. Dirt can be handled with such a machine for one half to conclude which we have the concluded with such a machine for one half to conclude which we have the concluded with such a machine for one half to conclude with such a machine for one half to conclude with such as the conclusion of the conclusion with such as the conclusion with such as the conclusion of the conclusion with such as the conclusion with the conclusion with such as the conclusion of the conclusion with the conclus chine for one-half to one-third what it would cost if teams were used. They are practicable, however, only on large jobs, as they are hard to move.

Our machine weighs about fifty tons.

The drainage of large areas if owned by a number of parties, must be gone about according to law. A petition is presented to the county commissioners, asking for the forma-tion of a drainage district. If granted the district is surveyed and the expense assessed against the land in proportion to the supposed benefit.

Londs are issued, and the work let by contract, or those in the district may do the work themselves with teams, each working out his assessment. In Neosho county, a great deal has been done in the latter way.

Tile drainage consists of laying hollow burned clay, or cement tiling, in the ground in such a manner as to enable the surplus water in the soil to drain out. Any soil in which water stands during any considerable period of the year needs drainage. In order that the water may run into the tile, the tile must be laid in the ground below the water, and the tile must have a fall or grade toward an outlet so that the water may run out cutlet, so that the water may run out of the tile. The depth at which tile should be laid depends on the soil, and also the fall possible to obtain. From two to four feet is perhaps the outside limits.

As to where the tile is to be laid must be determined by a knowledge of the field. If the land is rolling, it may be sufficient to put tile only along the draws. If these are narrow, one in the bottom may be sufficient. but if the bottom is wide, it should have two lines, one on each side, and if over 100 feet wide, a third line between the two outside lines.

Springs, or seeps, often bother on hillsides—a tile laid along at the origin of the spring, will prevent such wet places. However, if the soil on the hillside washes easily, care must be taken not to give the tile too much be taken not to give the tile too much fall, or the rush of water may wash holes along the tile, into which the soil may settle, and the tile become clogged.

Large nat areas, such as river bot toms, that need drainage, require more care in placing the tile lines. Some one who has had experience in such work should be consulted as to distance between lines and depth they should be laid.

The first and most important consideration of a tile system is the out-There must be some place for the water to flow freely out of the tile. The ideal outlet is into a large ditch or stream, and high enough up from the ordinary water level so that the outlet is seldom submerged. This must be secured even if a pumping plant has to be installed to keep the outlet free. However, if the outlet is submerged occasionally, it should be protected so that sudden rises will not wash mud and trash into the tile and clog them. An automatic gate

can be arranged so as to close and keep flood water out. SURVEY.

We never lay a rod of tile until a careful survey has been made. A good architect's level is made, and the elevation taken every 200 feet each way over the field, and also the point of which it is possible to got an out at which it is possible to get an outlet. From this survey, we determine at what depth and fall to put the mains and laterals, which is deter-mined often by the point at which we must place the outlet.

The map shows the preliminary survey of the "north cut-off" field, previously referred to. On this field there were well defined natural water courses or draws. The land along the creek, it will be noticed, is in many places two feet higher than points back 500 feet in the field. By putting the mains in these ditches or draws, it was not necessary to dig through the high land near the bank.

The outlet is well above low water the creek, and we have put in a fill in the open ditch between the ends of the tile mains in the creek, and through the fill we have a 22 inch opening which is closed by an automatic gate, so that flood water cannot back up into the tile.

The numbers at the intersection of the dotted lines on figure are elevations—all the same distance above an assumed datumplane. Hence, the elevations are all as if measured from the same point. We used the architect tripod level, and reading rod to take these elevations, chaining across the field along the dotted lines.

The plat of this survey shows that 13 feet was the elevation at which we must make our outlet. To establish Main A, Fig. 2, we find that the elevation at the north side of the field is 19 feet 9 inches, giving a fall of six feet, nine inches. We put the upper end of the tile three feet in the ground, having a fall in the tile of three feet and nine inches. The length of this main is 1,300 feet, giving us a fraction more than fraction more than four inches fall to the hundred feet. This is a good fall. We have put in mains with less than two inches fall to the hundred feet, but where we do so, we use larger tile.

When the survey is run for the main or a lateral, a hub stake is driven level with the ground every fifty fest, and the elevation tak-

en. From these elevations, then is figured the cut, how deep the ditch must the from the top of each of these stakes to put the bottom of the ditch to the desired grade. When digging by hand, we put a lath at each of these hubs, on which is marked the cut, also the number and letter of main or lateral, and the number of the hub, counting from the main or outlet. Careful notes of all elevations are kept in a convenient book, and may be referred to at any time. In digging with a machine, we do not mark the grade on stakes, but keep the note book with the machine.

.29 DIGGING DITCHES BY MAND.

We use tile spades, which are long, narrow, square-pointed blades-never "crossround-pointed tile scoops, arms," chalk lines, and gauges. cross-arms consist of a 1 by 3, four feet long, sharpened at one end, and a 1 by 2, eighteen inches long and one six inches long. The 1 by 2's are bored for % bolts, so that the 1 by 3 will slide between them and clamp at any point by tightening the bolts. The 1 by 3 is driven at the hub-stakes -each ditcher should have several of them-and the arm, 1 by 2's, adjusted to be just above five feet above the bottom of the ditch. The ditch is always dug to the right or left of the hub stakes, depending on whether the ditcher is right or left handed. The arm of the cross-arm, then projects

over the ditch, and a chalk line is drawn taut along the ends of the arms, and is just five feet above where we want the bottom of the ditch. The gauge is a stick five feet long, and we often put an L on this about one foot long, as the line is in the way if directly over the ditch. The gauge is set on the bottom of the ditch in a perpendicular position, and if the L just passes under the line, the ditch is to the desired grade.

For example, if the ditcher finds the grade stake reads Cut 3-6, he sets the cross-arm to hold the line eighteen inches above the hub, and the five foot gauge indicates when he is at

the proper grade.

We find but little advantage in trying to plow or scrape out a part of the

ditch. Ditchers prefer to dig from the surface. The spade is used to take the dirt out to within one to two inches of the grade, and then the tile scoop is used, which leaves a hollow bottom in which the tile is laid.

A tile hook is used to lay small tile, but the larger tile is laid by hand. The tile hook is made of a straight handle, and a metal L, ten inches long, at one end. The metal L is passed into the tile to lower and place them in the ditch.

to do the work for about twenty per cent of what it would cost to dig the ditches by hand. These machines must be seen in operation to be aptreciated. They dig the complete aitch, leveled and ready for the tile. The perfection of the work depends wholly upon the care and skill of the operator. They dig through roots, that il stone, etc., in a remarkable manner. They are not expensive, costing only about \$1,200. The new models with web wheels and the open gumbo bucket make it possible to operate the machine over ground that a team could not be ariven over with a light load.

The filling of the tile ditch is easily done. First, after the tile is laid as close and carefully as possible, any open joints of more than onefourth inch should be covered with a piece of broken tile; then the tile should be "blinded"—carefully covered with a spade or shovel so as not to displace any tile. We then use a heavy "filler" made of two 2 by 12 oak, put together like an A-harrow, the back ends being about eight feet apart. We then put two teams on this, one ahead on the side of the ditch on which the dirt is thrown, and the other team at the back end

dean of the Iowa College of Engineer-

ing, as tollows:

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 and growth of crops.

3. Tile drainage promotes pulveri-zation of the soil, putting it in good condition to cultivate, and preventing

baking and the formation of clods.
4. Tile drainage removes from the pores of the soil surplus and stagnant water, which would drown and de-

stroy roots of plants.
5. Tile drainage makes certain the proper "breathing" of the soil, or free circulation of air in its pores, which

is essential to healthy plant growth.
6. Tile drainage establishes in the soil the proper conditions required for the satisfactory carrying on the chemical processes necessaprepare the plant food for its e by vegetation.

7. Tile drainage fits th soil for the vigorov life and ac-

which are essen-ual to preserve and increase its fertility and pronoce 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 food.

9. Because in them the roots of plants can deeper. penetrate where they are pro-tected from the heat and drouth and can reach the deep seated moisture, tile drained soils stand drouth betthan undrained soils.

10. By putting the top four foot or four foot layer of soil into a porous condition, tile drainage enables soils to absorb rain water instead of discharging it over the surface, and so helps to prevent surface water wash and consequent loss of fertility.

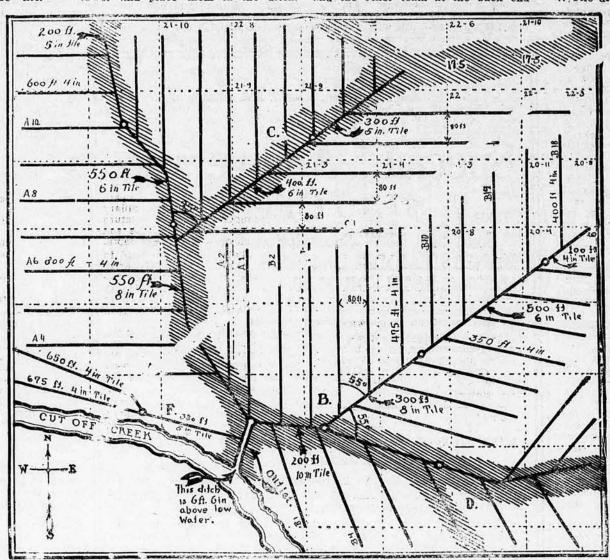
11. By causing this porous condition, drainage makes the upper three or four feet of soil into an enor mous reservoir to catch the main water and discharge it only slowly into the streams. Thus tile drainage prevents floods instead of caus-

ing them.

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

A horseshoe magnet is a mighty handy thing about the place. With it you can pick up a box of spilled tacks in "no time." It is a good thing to use in sorting mixed nails. It can be tied to a long string and used to re-cover small tools that have fallen into inaccessible places. If kept in the sewing basket the wife can pick up needles or scissors that have fallen to the floor. It will furnish fun and information for the kiddies. It must be kept with an armature on when not in use as it will otherwise lose its powers. This is simply a nail or other piece of soft iron placed across the poles of the magnet.

Prof. G. C. Wheeler recommends the following rations as best for the needs of the different classes of hogs named. The ration is given for 100 pounds. For brood sows, corn meal 60 pounds, shorts 35 pounds, meat meal or tankage 5 pounds. For growing hogs, corn meal 62 pounds, short 30 pounds, meat meal or tankage 8 pounds. For small pigs, corn meal 50 pounds, shorts 40 pounds, meat meal or tankage 10 pounds. All classes to have plenty of alfalfa pasture or hay and the small pigs, especially, a full allowance of skim milk.



It is very important that the bottom of the ditch be very smooth, and at a uniform grade—no high or low places. If there is water in the soil enough to run in the ditch as dug, the high and low places are easily seen. If there is no water, the gauge should be set on the tile before the line is taken

In doing our tiling, we have had all classes of ditchers. However, we do not allow the men who dig the ditch to lay the tile. In laying the tile, if we find the ditch is not right, it must be made so before it is accepted.

All ditching is done by the rod, and

we have paid at the following rates for digging, and leveling, ready for the tile:

the tile:
Per rod:
Depth ft, 4-5-6 in tile, % in tile, 10-12 in tile
2½ 22c 28c 30c
3 27c 32c 37c
3½ 32c 39c 47c
4 37c 47c 57c
5 50c 67c 82c
70c 78c 1.12

We figure that laying tile and fill-ing ditches cost about five cents per Our tile is bought by the carrod. load, and we buy where we get the best tile at the lowest price. An eighty that we tiled in 1905-6 cost us \$16.24 per acre. This eighty yielded six bushels per acre of corn in 1905, thirty bushels in 1906, and thirty-five in 1907, and near fifty in 1908. increase in crop for the first two years paid for the tiling.

Our Buckeye tile ditcher enables us

of one side and on the opposite side of the ditch. A short log chain is used on the back double tree so that the team is not too close to the ditch. By driving carefully and riding the filler about twice over the ditch, fills it and the extra dirt can be left just over the ditch to settle. At the end of the ditch we change the rear team to the opposite side or end of the filler, and, so fill the ditch going both

On very heavy gumbo soils, are put weeds and grass in the ditch before filling. This, we believe, will hold the soil open and give the tile a better chance. Light brush, corn stalks, or anything of the kind would doubtless be a benefit to heavy soils.

There are a great many things regarding the subject of drainage that cannot be mentioned in such an article, and it has been only my intention to touch such as we have had to do with here on the ranch.

The Department of Agriculture has a number of bulletins on the subject that may be had for the asking. The Agricultural College has just added a division of farm drainage in the extension department, and their services are at our disposal.

Elliott's Practical Farm Drainage is a most excellent book on the subject,, and should be owned by every farmer whose lands need drainage.

The advanages of tile drains are summarized by Prof. A. Marston,

SHAWNEE ALFALFA CLUB

Kansas alfalfa is worth \$8 per ton on the farm.

Eastern farmers are increasing their demands for it and pay \$20 to

eastern farmers can feed Kansas alfalfa at these prices and make money as they do, then Kansas alfalfa raisers are losing two-thirds of the value of each ton sold.

Alfalfa fed on the farm leaves 60 to 70 per cent of its value in fertility. Alfalfa sold takes away fertility. Kansas farmers cannot afford to

sell their alfalfa.

Dean Ed. H. Webster's address before the Shawnee Alfalfa Club was at once a medicine for those who needed it and a tonic for those who are convalescent from the disease of wasteful methods. The farmers make money easily in Kansas when they make any and this fact, together with the cheapness of the land when they got it, has made them great wasters. To a foreigner all Americans are wasteful and to an eastern man the western man is so. Western farmers do not take advantage of their opportunities as do the eastern farmers who have always had a much harder time to get along. We do not make good use of nature's resources, eastern farmers do to a much greater extent. The farmers of the east and south never had such rich land and much of what they had has been worn out and now all must depend upon fertilizers for crop returns.

Eastern farmers are fast learning the value of alfalfa and are putting forth every effort to grow it. Kansas grew 24,384 acres of alfalfa in 1891 when the first records were made of this crop. Last year she grew 993,539 acres and there was an annual increase every year but one annual increase every year but one. It is possible that this acreage will increase so that we can afford to supply hay to other states but we cannot afford it now nor for many years to come. Eastern stockmen and poultry raisers use Kansas alfalfa as baled hay and as meal in ever increasing quantities and the demand will in-crease for a time.

The average price of Kansas alfalfa is \$8 per ton. The largest eastern consumers pay from \$20 to \$25 per ton for it and are glad to get it. I shall discuss the economics of alfalfa rather than the methods of growing it. We have devoted our time and energies to the production of crops rather than to their proper utiliza-tion. Our time has been occupied in learning what varieties would grow here and how best to cultivate them but we have not given as much thought to their profitable marketing as we should. We have not asked whether we could get more for our crops but have been content with what we considered paying prices.

If the eastern farmer, who is glad to get Kansas alfalfa at three times the price for which we sell it, can make money by so doing then our methods are wrong and we are losing two-thirds of the value of our crop two-thirds of the value of our crop.
If we should feed this alfalfa into butter, meat and eggs as the eastern men do we should not only get this increased return but would save from 60 to 70 per cent of the value of the crop which is returned to the land in the form of manure.

Eastern soils are worn out. in many cases, because some element of fertility is gone. Kansas soils are rich in the mineral elements but the humus has been consumed by constant grain raising and the soil is pasty and runs together when wet and blows away when dry. No soil can produce without humus, and alfalfa with barnyard manure is the cheapest and best possible way to secure

Our live stock industry in Kansas has declined in spite of high prices and with this decrease has gone fertility. The production of hogs is 2,000,000 short of what it should be. This should not be so, situated as we are with such admirable climatic and feeding conditions. The facts prove us to be great wasters. We are selling off our crops instead of feeding them and in doing this we are selling our farms. Our average yield per acre has shown a marked decrease in the last 10 years and this because we sell crops instead of feeding them.

We cannot calculate on increased

The Only Alfalfa Club on Earth Has An Unusual Meeting

prices. We must calculate on economy of production. If we sell raw materials we must sell at such prices as others can profit by, and when the farmers further east who now buy our alfalfa shall learn to grow their own as they will surely do, our market will be cut off and our land depleted.

Raising live stock has been compared to "swapping dollars" because there can be no profit in feeding high priced crops to stock. Nothing could be wider of the truth. The farmer who thinks he is foolish not to sell his alfalfa when he can get \$10 per ton for it is losing sight of the bigger opportunity of turning his crop into the concentrated products which will bring two or three times as much. Alfalfa is the basic ration of our

live stock operations and this is becoming true in the east. Alfalfa has been the mortgage lifter even more especially, would pay for itself many

Alfalfa is the complement of corn and Kafir and we can feed more cheaply here than elsewhere. No other country has the opportunity that we have and we are not taking advantage of it. If we fed for the manure alone it would be much more profitable than shipping our

If we had to pay interest on the present value of the land many of us would fail because of present wasteful methods. Young men do not take to the farm because these methods do not pay and unless better methods are adopted there will be more renters or the land will go into the hands of great corporations with money enough to restore the land and farm it under proper methods. Making acres produce more crops economimeans stability not only in

our alfalfa. It is one of the things that has contributed much to our prosperity. I don't know that we have ever had an entire failure of the crop. It is our standby. If the al-falfa were fed here it would mean an increase in our business, we could employ more help, and have all the other things that prosperity brings. We need more concentrated products, as butter and milk. Kansas is a won-derful dairy state and alfalfa has made this possible.

"People should wake up to this situation. It should be preached from every school house and cross roads—we should derive the profit from concentrated products not deal in the centrated products, not deal in the raw material and permit the middle man or some other person to get it."

At the close of Dean Webster's address he was made an honorary member of the club and tendered its thanks by a unanimous vote.

The next meeting of the club will be held in the Commercial Club rooms on the last Saturday in January. Everybody is welcome.

Good Old Kansas.

I was very much pleased to read Prof. Culver's article in your current issue, about the rural schools and

the trend towards better school buildings in the country.

Being a child of Kansas pioneers and a product of the country school of the Kansas prairie, the article appealed to the writer very much, but will say that Prof. Culver is wrong in assuming that Kansas never had a "little red school house," as it was in a red school house on the hill in Sedgwick county that the under-signed got the foundation of an edu-cation. It was a brick school house, too, and built in 1872, just east of Wichita, and was known as "District No. 2," hence was one of the very first to adorn the prairies of that county. The writer was hardly out of his apron dresses when he with ten or eleven other children, took his first lessons from Miss Laura Dibble, the first teacher, and then "graduated" from that worthy institution years later under one of the noblest teachers that ever imparted information in a country school anywhere, and who is now known as Hon. E. H. Madison, Congressman from the Eeventh district of Kansas. After quitting the above pioneer

country school the writer went to another pioneer school, not in the country, but a pioneer academy in Wichita. That was in 1886 when there were not so many academies and colleges in the Sunflower states as there are today. It was at the latter insti-tution that I was a fellow student for three solid years with another famous Kansan, who is also serving his country well in the Halls of Congress, Hon. Victor Murdock. The pioneer schools of Kansas may not have been very far advanced in classics and sciences, but they turned out many scholars who knew how to battle with the problems of life, whether it was on the farm or in the country's councils. No doubt the teachers of the rural schools of Kansas today, are as careful and en-thusiastic in helping the young to mould their ambitious minds in the proper channels as in the pioneer days. It is hoped that the schools will all be endowed with better li-braries and scientific apparatus than the pioneer schools enjoyed, also betbuildings, as suggested by Prof.

Culver. When District No. 2 was erected in Sedgwick county, there was not a railroad in that county, and the writ er's parents came overland to that district from Topeka in March, 1871. The Santa Fe at Emporia was the nearest point then reached by rail.

It is the writer's belief that there is no better rural school system anywhere in America than that of Kansas, but as all other conditions improve, so should the school systems. Kansas can be depended upon to hold her own in this respect, as she does in all other matters intellectual and moral.—E. C. Cook, Secretary, Wichita Society of Chicago.

The man who has the proper goods and offers them for sale in an attractive manner will always find a ready market.

LAST CALL

FOR THE

Special Anniversary \$1.10 OFFER

Send one NEW Subscription for one year to KANSAS FARMER and renew your own subscription, BOTH FOR \$1.10.

To get this special rate your letter containing your order must be postmarked on or before January 2d, 1911.

The arrangement printed in our issues of December 10 and 17 stated that orders, to get this special rate had to be mailed to reach us in Topeka by January 2d, 1911. Quite a number of subscribers have written that we should make the offer include all orders mailed and bearing the postmarked date of January 2d. Accordingly this offer is extended to include all orders so mailed and postmarked.

Don't forget this last date, mail your order on or before January 2d, 1911

Notice the index printed in the back pages in this issue. When you study it through, doesn't it show a Great Big Dollar's Worth? Show this index to your neighbor.

After studying it a few minutes most likely he will be glad to hand you a dollar for a year's subscription. Add ten cents to the dollar, and that will pay for his subscription and for your own renewal for the whole of next year.

Be a Booster Take Advantage of This Offer

than the hog. It should be more than this. At the present average price and yield we get \$24 per acre for this crop when sold. If we could get the \$20 per ton which the eastern man now pays for our alfalfa the yield would be \$60 per acre.

This eastern man makes the same kind of beef, pork, butter and eggs that we do and sells on about the same kind of a market and yet he makes money in spite of the high prices he pays for our alfalfa and the commercial fertilizers which he must have. Kansas farmers simply cannot afford to sell alfalfa and let others make the profits on their farms.

Kansas still has too many big farms every inch of which is broken up and sowed to wheat or some other crop with no attention paid to the care of the soil. We need more intensive farming and we need more people on the farms. An immigration bureau which would bring more people to this state, and more farmers

farming but in all other lines of busi-

The wheat farmer can make money on \$10 land at the present low rate of yield but he cannot do so on \$50 land and this same thing is true of alfalfa. Alfalfa combined with corn and Kafir enables the Kansas farmer to produce butter, cheese, eggs, beef and pork cheaper than any other country on earth and yet we waste our sub stance. We find our average yield of corn is decreasing year by year and yet we waste half of what we do raise. We save the ears which are only half the valuable part of the crop and let the stalks and leaves which are equally valuable go to waste. A silo would save the entire

Up in Iowa statistics show that the best of farms only yield about 3 per cent on the value of the land and this will soon be true in Kansas.
"And now let me reiterate the

point that we cannot afford to sell

POULTRY Made on the Only Correct Principle



Now that freezing weather pre-vails, the eggs should be gathered several times a day, or they are liable to get frozen. The egg-eating habit is often formed by the hen eating a cracked egg caused by freezing.

While the poultry shows are in session is a good time to find the kind of chickens you want to raise. We hear some men say that they will buy a thoroughbred male of some variety and breed up their chickens to a higher grade. This is a very slow process and the better way would be to buy a pen of thoroughbreds, breed from them till you have quite a num-ber of pure-bred fowls, and gradually do away with your graded stock.

There are two ways of getting rich in the poultry business. The easiest way is to sit down and figure out a fortune on paper. You can do anything you like with figures. But the surest way is to get busy and hustle. Fortunes are not made in the poultry business, no more than in any other business, without hard work.

Fowls want water the first thing in the morning and the last thing at night, besides drinks between times during the day. Care should be taken that they are supplied with pure water, or they will not lay, for eggs are 90 per cent water. Remember that water freezes very easily these cold days.

To determine the age of fowls requires considerable experience. Especially is this true of ducks and geese. Younger birds always have softer flesh, appear younger and more alert, are less heavy behind, and have cleaner, fresher and brighter legs. A good test is the condition of the breast bone. If gristly and easily bent, the fowl is young.

Kerosene is invaluable around a poultry farm. It is a simple remedy for many troubles. Put on the roosts frequently, it will keep the lice in check. Dilute it with sweet oil, about the roots in the roots in the roots. one-third sweet oil and two-thirds kerosene and inject in nostrils, roof of mouth and corners of eyes if your fowls have colds. Scaly legs are cured with it if properly applied and an internal dose will help in many cases. An easy way to apply kero-sene to legs and feet of fowls to destroy the insects that cause the excrescences which often appear on the legs, is to fill an empty can twothirds full of water and one-third of kerosene, and dip the feet and legs of the affected fowls therein. Two or three treatments will prove effective.

Care in gathering and handling eggs is of the greatest consideration. If you leave a nest egg in the nest for a week it will become stale, and if you market a few stale eggs in the lot you send to town, your reputation suffers and the local merchant, instead of seeking your trade, prefers to shun you and offers you less than the market price for your eggs. In place of using the hen's eggs for nest eggs, use the artificial ones and there won't be any danger of getting stale eggs. Some experts say that nest eggs are of no benefit; that the hens will not lay any more eggs with nest eggs than when they are left out, but we always use them for we know the hens always like to get into the nest where are the greatest number of eggs, and we think the sight of an egg must remind her of her duty to lay eggs. However, we prefer to go without nest eggs if we cannot have artificial ones.

Speaking of poultry shows reminds us that the season for the same is now in full swing, and all those interested in fancy poultry ought to attend one or two of these shows so as to get posted in the business. Especially should the amateur poultry breeder attend the shows, for he will learn more of the inside workings of the

business at one poultry show, than he can by reading about the business for

TELL YOUR NEIGHBOR THIS.

Last week, Charles Dorr, Osage City, Kan., wrote Kansas Farmer, saying: "Enclosed is check of \$1.40, for my small poultry ad in your paper. All told it sold 12 roosters for me."

A little more than 10 cents apiece to sell roosters. That's going some, but it is not an unusual result from advertising in Kansas Farmer. Will you follow suit?

Program Kansas Improved Stock Breeders Association.

Monday, January 9, 1911, 10 o'clock m., Knights and Ladies of Security Hall, Corner 7th and Kansas Ave. Meeting of the board of directors.

Appointment of committees. Afternoon, 2 o'clock, Knights and

Ladies of Security Half. "Ensilage for Beef," L. H. Paul, Des Moines, Iowa.

"The Hereford for the Western Farmer," Hayes Walker, Editor Here-ford Breeders Journal, Kansas City,

"The Shorthorn for the Western Farmer," B. O. Cowan, Assistant Secretary American Shorthorn Breeders Association, Chicago.

Evening, 8 o'clock, Commercial

"Beef Production on the Farm," J. G. Haney, Manager Deming Ranch, Oswego, Kan.

"Heavy Horses and Farm Work," Ralph G. McKinnie, Glen Elder, Kan. "Feeding and Care of the Horse," with reference to the present experiment of feeding 976 horses at Fort Riley, C. W. McCampbell, Manhattan,

Tuesday, January 10, 1911, 9:30 o'clock a. m., Knights and Ladies of Security Hall.

"The Duroc Jersey Hog," Samuel

Drybread, Elk City, Kan.

"Breeding the Big Type of Poland Chinas," Roy Johnston, South Mound, Kan.

"How I Raise Hogs," J. G. Arbuthnot, Cuba, Kan.
"Making Pork on Grass," C. S. Nev-

ius, Chiles, Kan.
Afternoon, 2 o'clock, Knights and
Ladies of Security Hall.

"Hog Cholera and Vaccination from the Farmer's Point of View," Dr. E. F. Kubin, hog cholera expert, Experi-

ment Station, Manhattan, Kan. "Influence of the Sire on the Herd," Prof. O. E. Reed, dairy husbandry department, Agricultural College, Man-

hattan, Kan.
"Dairying for Profit," Prof. G. L. McKay, Chicago, Ill.

Evening, 8 o'clock, Representative Hall.

"Shall the American Farmer Become a Meat Packer?" President H. Waters, State Agricultural College,

Manhattan, Kan.

"Home Butchering and Curing of Meats," with demonstration, Prof. T. G. Paterson, Agricultural College,

Manhattan, Kan.
Wednesday, November 11, 1911,
9:30 o'clock, Knights and Ladies of Security Hall.

"Past, Present and Future of Poul-

try," John C. Snyder, Topeka, Kan.
"Stock Raising and Home Making,"
Dewitt C. Wing, Associate Editor
Breeders Gazette, Chicago, Ill.
"The Stallion Registry Law," R. J.

Kinzer, secretary Stallion Registra-tion Board, Manhattan, Kan. Afternoon, 2:30 o'clock, and Ladies of Security Hall.

Reports of committees. Election of officers.

Adjournment.
Evening, 9 o'clock.
Annual banquet to the members
and invited guests.

The State Board of Agriculture will begin its meetings in the secretary's office at 4 o'clock on Wednesday afternoon.

One Gallon of Oil and One Filling of the Lamp to a hatch, while others need 3 to 5 gallons of oil and must be filled al-most every day. Sold on 90 days, trial, guaranteed to be as represent-ed and we pay the freight.



X-RAY INCUBATOR CO. Wayne, Neb.

Des Hoines Incube





\$7.55 Buys Best Incubator

We ship buck from the free part of the f Racine, Wis. He City Incubator Co., Box 18



ried and Proven
for 17 Years
Chletz, Ducks, Yurkeys"—send 10
Chletz, Ducks, Turkeys"—send 10
Chletz, Ducks, Turkeys (Chletz, Ducks, Turkeys)
Chletz, C 125 Egg Incubator \$10 If ordered together we send both for \$10. Freight water, copper tanks, double walls, double glass doors. Free catalog describes them. Send for it today.

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

Wisconsin Incubator Co., Box 130. Racine, Wis.

The Most For Your Money

That is of equal interest to poultry advertisers, in the advertising they buy, as it is in any other thing to be bought. A small poultry ad on this page costs but little, but it brings large returns. Our warrant for saying that is furnished to us in the letters from the advertisers who have used this page in the past and who are using it now.

Kansas farmers are the largest fancy poultry and eggs-for-hatching buyers in the United States.

This paper goes to 45,000 to 50,000 Kansas farm homes per week, Every cne of these farm homes is a possible poultry buyer. They are good buyers. They have the habit of buying poultry and eggs by mail.

Tell them about yours and give them a chance to buy what you have.

WRITE FOR OUR SPECIAL

WRITE FOR OUR SPECIAL POULTRY CIRCULAR.

which gives our Special Poultry Advertising Rate. When you get this you will
see that KANSAS FARMER is a very
profitable paper to carry your advertising. It will do it with mighty good effect and for less money than any other
paper of equal standing and strength.
Learn about this money-saving ordergetting advertising. Send your name today for the Special Poultry Circular.

KANSAS FARMER, TOPEKA, KS.

PURE BRED POULTRY

SEVERAL BREEDS.

40 VARIETIES OF GEESE, DUCKS, turkeys, chickens, peafowls, guiness, pheasants, pigeons and rat dogs. Catalog 4 cts. F, J. Damann, Farmington, Minn,

WHITE WYANDOTTE COCKERELS; heavy birds; &0c each. Mrs, E, S, Louk, Michigan Valley, Kan,

HOUDANS.

FULL BLOOD HOUDAN COCKERELS while they last \$1. S. P. Green, Mankato,

PLYMOUTH ROCKS.

BUFF PLYMOUTH ROCKS FOR SALE.
A. R. Olmstead, 1t. 1, Lawrence, Kan.

ROSE COMB WHITE ROCKS FOR SALE, James Parker, Woodston, Kan.

BUFF ORPINGTON COCKERELS \$1.00. M. Spooner, Wakefield, Kan,

BARRED ROCKS, PURE BRED, BOTH matings, \$2 to \$3. W. H. Molyneaux, Palmer, Kan.

BUFF PLYMOUTH ROCK COCKERELS \$1 each for quick sale; satisfaction guaran-teed. J. Koerth, Ionia, Iowa,

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

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

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

125 WHITE PLYMOUTH ROCK HENS, cockerels and pullets; Johnson and Owen strains: priced to move them; also Pekin ducks and drakes. L. T. Spellman, Paula.

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

SHELLEY BROS.' BARRED ROCKS WON SHELLEY BROS. BARRED ROCKS WON
71 premiums, 34 firsts, specials and sweepstakes at Kansas State Poultry Show, Central Kansas Poultry Show and State Fair—
a record never equaled. Fine breeders,
Males, \$2 to \$5; females, \$1.59 to \$3.50,
Satisfaction guaranteed. Circular free,
LOCK BOX 7,
Elmdale, Kansas.

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

SINGLE COMB BUFF ORPINGTONS— No better stock anywhere; fine Owen Farm strain. A few classy cockerels for bargain pricess will sell singly or mated to hens or pullets in trios or pens. Write me at once. C. B. Owen, Lawrence, Kan.

LEGHORNS.

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

ROSE COMB BROWN LEGHORN COCK-erels from pen headed by first prize-winning cockerel at Buffalo, N. Y.; also fine pullet mating cockerels from pen of high-scoring females; also utility cockerels. Write your wants. Mrs. John Holzhey, Bendena, Kan.

PARTRIDGE COCHINS.

FINE LARGE PARTRIDGE COCHIN cockerels \$2 and up. Mrs. John H. Long, Blue Mound, Kan.

PARTRIDGE COCHINS, COCKERELS and hens, \$3 and up; won 18 out of 21 ribbons at Mo. State Chicken Show, 1910. Bggs in season. S. W. Cooper, Westmoreland, Kan.

SINGLE COMB R. I. RED COCKERELS; Bourbon Red turkeys. Mrs. P. F. Momyer, Lathrop, Mo.

LANGSHANS.

BLACK LANGSHANS—WRITE ME FOR rices, Mrs. D. C. Poole, McDonald, Kan.

BLACK LANGSHANS — FROM HIGH-georing stock, Write me for prices, Mrs. D. A. Swank, Blue Mound, Kan, FOUR HUNDRED FARM RAISED BLACK Langshan cockerels and pullets from our lows State Show winners, We have bred B. L.'s exclusively for 25 years, They must be sold by Feb. 1. U. S. Grant, Brooklyn, Ia.

BLACK LANGSHANS—WE HAVE THE grandest bunch of cockerels we ever raise bred from prize winners: all cockerels sccred; score cards furnished. We have the shape, size, deep, glossy, greenish-black color; \$2 up. Haynes Farms, Grantville, Kan.

TURKEYS.

BUFF TURKEYS FOR SALE. A. C. Green & Sons, Winchester, Ind.

BOURBON RED TURKEYS FOR SALE. Mrs. P. D. Briggs, Sedan, Kan. MAMMOTH BRONZE TURKEY TOMS \$., hens \$3. F. M. Brown, Onaga, Kan.

PURE BRED MAMMOTH BRCNZE TUR-key toms for sale, \$5. Sadie Litton, Pea-body, Kan.

MAMMOTH BRONZE TURKEYS; SOME

from a 10-man, Kan.

BOURBON RED TURKEYS FROM MIS-sourl and Kentucky stock; the finest and largest I have ever seen. About one-third of flock not related. They will sure please you. Send orders quick. Gobblers \$5 and hens \$4 each. D. W. Stone, Medicine Lodge. Kan.

PFILE'S 65 VARIETIES

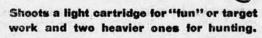
AND and water fowls. Farm-raised stock, with eggs in sea-son, Send 2c for my valuable illus-trated descriptive Poultry Bock for 1911. Write Henry Pfile, Box 621, Freeport, Ill.

WHITE PLYMOUTH ROCKS

(EXCLUSIVELY.)

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

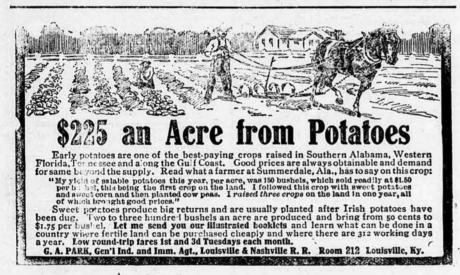
MODEL 1906 .22 CALIBER Extra Light Weight Repeating Rifle



This rifle handles .22 Short, .22 Long or .22 Long Rifle cartridges without change of adjustment. It's a take-down and a very handy, all-around small caliber repeater. Examine one and you'll agree that it's the biggest rifle value ever offered.

ASK YOUR DEALER TO SHOW YOU ONE.





The Most Dependable Farm Engine WEBER GASOT GASOLINE ENGINE Sold Under Our Absolute Guarantee Special features—Water hopper of large capacity with gauge glass and drain-split hub #g wheels—gasoline pump supplies ongine; surplus returns to recervoir—electric igniter—heavy and gid construction—perfect control governor changes speed in-Sheffield Gas Power Co., 112 Winchester Pl., Kansas City Mo.

ANTI-FRICTION, FOUR-BURR MILLS



DOUBLE THE CAPACITY OF GEARED MILLS Two-horse mill has 24-ft, grinding burrs (two sets) all grinding at once, and grinding from 25 TO 50 BU, PER HOUR. Four-horse mill grinds from 60 TO 80 BU, PER HOUR.

Two complete mills in one; has double the capacity and double the durability of other mills. Absolutely no friction or gearing. Will earn cost price in three days. The largest ears of corn to these mills are like popcorn to other mills. We manufacture the most durable and fastest grinding line of mills sold, including our FAMOUS 10WA NO. 2 FOR \$12.50, Send for our free catalog.

BOVEE GRINDER & FURNACE WORKS, 24 8th St., WATERLOO, IOWA.

WINCHESTER THE FARM



Bermuda Grass.

Bermuda grass is without question the most useful of the pasture grasses for all southern states. It is nutritious, a persistent grower, and delights in the hot sunny exposure of an open field. It will stand unlimited grazing by stock, holds up during severe drouth, and grows continuously until a killing frost occurs in the fall. It will do well on almost any type of soil, but is especially adapted to sandy loams and the hill lands throughout the south. On fertile lands it makes a rapid growth, attaining a height sufficient for mowing, and may be cut several times during the season. The hay from Bermuda grass has been found fully equal in food value to the best timothy. On washed soils, or on lands that are broken and would soon wash off under cultivation, no other plant has been found so valuable either for checking the erosion already made or for preventing it on sandy hill lands. Its value for preventing washes and holding lands may be illustrated from the fact that all railroads take particular care to get it set thoroughly on new embankments as soon as they are made. The same use is made of it on all new levees and other embankments where washing is likely to occur.

Bermuda grass thrives in Oklahoma and in southern Kansas in certain places. The chief difficulty about raising it in this state lies in its liability to winter kill.

Farmers' Engines.

Some good ideas were recently given by Professor Ocock of the Wisconsin University to the manufacturers of farm engines. He put the mat-

ter before them in this manner:
"The adaptation of the gasoline engine to all of the principal problems of farm motive power has greatly aided in agriculture. The small gasoline engine attached to the grain binder has been of great value in driving this machine when it is drawn over wet ground, where formerly the binder could not be made to operate, due to the slipping of the wheels upon the soft earth.

"By keeping in close touch with the user of his machine the manufacturer may meet problems which the farmer may never think to suggest to the manufacturer. The instruction in agricultural engineering in several colleges of agriculture is doing much to adapt farm machines to the real needs of various lines of farm work. This instruction is also aiding in making the farmers more intelligent in the use and care of these implements. The farmer has sometimes encouraged the making of poor machines by insisting upon getting them cheaper, but this condition will not long maintain.

The first step is for the manufacturer to simplify the working parts of his engine and while many now on the markets seem almost to have reached perfection, there are still possibilities of improving them. We can never get an engine that is 'fool proof,' however. The manufacturer must plan to give the purchaser thorough instructions in the operation of his machine so that all of the adjustments are understood and can be made without calling upon a local engineer or specialist on engines."

What Can the Tenant Do?

I am a reader of your valuable paper and find some very interesting and helpful articles in it. But it seems to me that some of your writers don't seem to take into consideration that some of us are renters and have to get along almost any way sometimes whether it suits us or not.

Now take for instance your article on the care of farm machinery and also a reply made to it by a Mr. Hall from Oak Park, Ill. These articles are both good and right to the point but I would like to ask these centlemen what are we renters to do?

We all know that we are losing

money every year by our machinery standing out in the weather but how are we to help ourselves. You know we can't build implement sheds on rented farms. If we did our bank accounts would be smaller than they

I live on a farm that is owned by a man that could build a roof over the whole place if he wanted to, but I would be satisfied if he would build me a good cattle and implement shed so I could have a show to make a little money. I have lived on this place two years and would stay on it till I am able to buy a home of my own if I had a little better improvements, but a renter can't make anything if he doesn't have shelter so he can keep stock.

Now if you "big" men will solve this system of getting landlords to help us a little you will have done something to be proud of.—G. A. Phillips, R. R. 6, Parsons, Kan.

Ar. Phillips has hit the nail on the

head. The articles to which he refers were not intended to criticise the renter but to help secure a better cooperation between landlord and ten-ant. The landlord is the man who needs more information and if he can te made to see that it is money in his pocket to cooperate with his tenants in every possible way, he will have taken a long step towards the betterment of his own finances, the conservation of farm fertility and the making of better, because more prosperous, tenants.

The only solution of the renter's problems, as we see the matter, is to be found in longer leases and a much better cooperation on the part of the landlord with the tenant.

Farmer's Share of Consumer's Prices.

High prices receive considerable attention in the report of Secretary Wilson which has just been issued. In the farmer's aspect of the matter he receives various percentages of the consumer's prices for farm products. In the case of milk, in 78 cities distributed throughout the United States where the subject was investigated by the Department, the farmer receives a scant 50 per cent, or one-half of the price paid by the consumer. The railroads get about 7 per cent, so that the - 7 43 per cent of the consumer's pile is received mostly by the re-

The milk wagon of the retailer has a long route. It stops at a house or two in one city block, perhaps passes several blocks without stopping, and so proceeds to serve customers thinly distributed along a route of miles. At the same time the milk wagons of other retailers are covering various portions of the same route, and so there is a great waste of effort and of expense in the distribution.'

The farmer receives hardly more than half of the customer's price in the case of poultry; 69 per cent in the case of eggs; cabbage 48 per cent when bought by the head and 65 per cent when bought by the pound; celery, 60 per cent when bought by the bunch.

The apple grower receives 56 per cent of the customer's price when the purchase is by the bushel and 66 per cent when by the barrel: the strawberry grower gets 4 per cent of the consumer's price in purchases by the quart and 76 per cent when by the crate. When the consumer buys a peck of onions at a time, the farmer receives 28 per cent of the retail price; when he buys a barrel the farmer receives 58 per cent. So, in the case of oranges, when the pur-chase is by the dozen the grower receives 20 per cent of the consumer's price, whereas, when the purchase is by the box the grower gets 59 per cent. The rule seems to be, the smaller the retail quantity the smaller the farmer's share of the consumer's

Among the many other products represented in the list are oats, with per cent of the consumer's price going to the farmer when bought by

the bushel; melons, 50 per cent when bought by the pound; parsnips, 60 per cent when bought by the bunch; po-tatoes, 59 per cent when bought by the bushel; string beans, 80 per cent when bought by the barrel; sweet potatoes, 61 per cent when bought by the barrel; turnips, 60 per cent in purchases by the bunch; watermelons, 34 per cent when bought singly.

Cracks in the stable will not insure ventilation though they may insure pneumonia. Ventilation is just as necessary in the stable as in the bedroom but it cannot be secured by a broiten window, a board pulled off or a crack in the Weatherboarding.

Merit is Bound to Win.

Some one has truly said that if a man builded a better article than any one else, that though it be builded in a wilderness people would wear a path through the forest to purchase. Merit is bound to win. You can "fool part of the people all the time and all the people part of the time, but you can't fool all the people all the time." The thousands upon thousands of progressive farmers in North America, Australia, South America, Russia, Germany, in fact in every part of the grain growing world, would not use Superior Grain Drills unless they were right. Why are they right? Because you can sow any seed from the finest grass seeds to bush Lima beans, you can sow any commercial fertilizer or granular lime and it will sow it right and in quantities desired. You can reseed worn out and run down pastures and meadows. The Superior the grass seed under the sod without turning it. It is strong, light draft, accurate and will do your work right. It sows evenly—every feed exactly the same amount. No skipping, no bunching or choking. The Superior Disk Drill will run and do good work wherever a disk harrow will run. Stalks, mud, pea vines, crap grass and any other trash has no ter-rors for the Superior. "The name tells a true story." Drilled oats and small grains will withstand the drouth much better than when broadcasted. You can get a good stand of clover if you sow it in the spring at the same time you do your oats or wheat because the young clover plants get a good stalky growth at a very critical time-when they need sun and air The Superior Drill is manufactured in many styles and sizes by The American Seeding-Machine Co., Incorporated, Springfield, Ohio. Write them for a Superior catalog, read it carefully. Go to your nearest implement dealer, and ask him to show you a Superior Drill.

A Valuatie Cow, affinial.

If a cow gives 175 pounds of butter in a year is worth \$60, how much is a cow worth that gives 350 pounds of butter in a year?

Suppose that butter will average 25 cents the year round, and it will do better, and that the feed is worth \$40 for the year. The first cow would give a return of \$43.75, less \$40 for feed would leave a profit of \$3.75, counting that the milk, calf and manure pays for the labor.

The second cow would give a return of \$87.50 for butter and would give at least 4,000 pounds more of milk which at 20 cents per hundred pounds, and it is worth more for feed, would bring \$8. The calf from the good cow is also worth more, but The return would let that go. \$95.50 less \$40 for feed, or a profit of \$55.50 on the same basis as the other cow made a profit of \$3.75. It would take practically fifteen 175 pound cows to make as much profit as one 350 pound cow.

\$3.75 is 6.2 per cent on \$60 and \$55.50 is 6.2 per cent on \$895.16. On the basis of percentage income, when the 175 pound cow is worth \$60, the 350 pound cow is worth \$895.16. The keeping of the cows should be looked at from the business standpoint. The poor cow is dear at any price but the good cow is usually not rated at her real value.—W. C. Palmer.

Program Fortieth Ansual Meeting State Board of Agriculture.

Wednesday, January 11, 1911, afternoon session, opening at 4 o'clock, Roll call.

Appointment of committees. Reading of minutes of preceding

Report of committee on credentials.

The topics announced herewith will all be considered, as near as may be, in the order given. Papers will be subject to percinent discussion, and delegates are urged to prepare for these discussions. Others present, either gentlemen or ladies, of whom there are likely to be a large number, will also, as always, have the privilege of participating in the discussions, and are cordully invited to do 80.

Evening session, 7:30 c'clock. Address of Welcome, Cov. W. R. Stubbs.

Address of Welcome on Behalf of the City and County, County Attorney E. R. Simon.

Response, Pres. Chas. E. Sutton.
"The Present Status and Future
Outlook of the Serum Treatment for
Prevention of Hog Cholera," F. S.
Schoenleber, V. S., State Agricultural

College, Manhattan.
"Beef Production," B. O. Cowan,
Assistant Secretary American Shorthorn Breeders Association, Chicago.

Thursday. January 12, morning session, 9:30 o'clock,
"Water Storage Possibilities," L. L. Dyche, State Fish and Game Warden,

"Sorghum Culture," Carleton R. Ball, U. S. Department of Agriculture, Washington, D. C.

Afternoon session, 1:30 o'clock. "Does it Pay to Interchange or Import Sand Wheat?" W. M. Jardine. State Agricultural College, Manhat-

"When the Cows Come Home," Frank D. Tomson, the Breeders Gazette, Cedar Rapids, Iowa.

"Kansas a Sheep State? Why Not?" M. V. Carroll, the Missouri Ruralist, Sedalia.

Evening session, 7:30 o'clock.
"The Conservation of the Country Church," Rev. Duncan C. Milner, D. D., Chicago.

"Efficiency the Key Note in the Education of Our Girls," Mrs. Mary Pierce Van Zile, State Agricultural College, Mashattan.

Friday, January 13, morning session, 9:30 o'clock.

"What of the Morrow?" E. M. Wentworth, State Center, Iova.

"The Story of My Farmer Boys,"
Will B. Otwell, Otwell's Farmer coy,

Carlinville, Ill. Afternoon session, 1:30 o'clock. Election of officers and members "Maintenance of Soil Fertility,' Chas. E. Thorns, Director Ohio Agri-Fertility. cultural Experiment Station, Wooster.

Query box. Installion of the new board. Evening session, 7:30 o'clock.
"While She Waits," Miss Edna D. Day, department of home economics,

State University, Lawrence. "The Growing of a Human Plant," Rev. Frank L. Loveland, D. D., ToWhether or not you start with one

Sooner or Later you will buy a

The more you come to know about cream separators the better you will understand the overwhelming superiority of the DE LAVAL.

THE DE LAVAL SEPARATOR CO.

165-167 BROADWAY, NEW YORK.

COAL OIL & GASOLINE

2n 55 gallon fron barrels, Coal oil, 14c; gasoline, 21c per gallon, including the fron barrel, freight prepaid to any railroad stiton in Kansas. These oils are the best grade. The barrels will last a life time. No leakage or evaporation. Agents wanted, Mail your orders to

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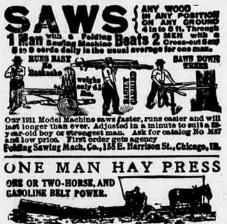
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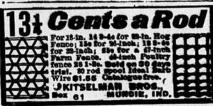
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Better Stallions Used.

A review of the benefits brought about by the stallion law of Wisconsin since it was enacted in 1906 shows that there has been a decided improvement in the horse breeding industry. Since the law become effective, 1,226 grade stallions have been retired from service and 88 others have been refused licenses or have had their licenses revoked on account of unsoundness. At the close of 1907, the end of the first year of the law, 35 per cent of stallions were classed as pure bred and 65 per cent as grades. At the close of the present year there were 44.5 per cent pure breds and 55.5 per cent grades and scrubs. A total of 346 stallions originally licensed as grades have been given the new "mongrel or scrub" certificate provided by the amended law for stallions neither of whose parents are pure bred.

The Meat Question.

Last spring, with a known shortage of hogs on the six markets of over 7,000,000 head, the farmer's hogs were selling around \$10 per hundred. Since then, with an additional shortage of over 3,000,000 head, the price of the farmer's hogs have been forced down about \$4 per hundred

and the price of meat pushed up.

Now what is the reason for all this shortage of hogs? There is no especial amount of disease, no lack of corn, no lack of breeding stock, the farmers are just as skillful and have as good facilities as they had two yers ago.

The real reason is the farmer's profound distrust of present conditions, that long years of expensive experience has forced upon them.

Thousands of farmers are beginning to see, and see with both eyes.

that it is better to produce a small number at a profit than a large num-ber at a loss. It is of no use to scold. We must do things.

Now there are over nine hundred cities in these United States, with populations of five thousand or over; and no one knows how many towns and cities of under five thousand population, and every soul in all towns and cities want cheaper meat. The producer and consumer must cooperate. It is not expedient that they build and operate a great packing house in Kansas City, but they can develop and foster their local mar-kets; furnishing the best of corn and alfalfa fed "pig pork" and tender beef at reasonable rates; thereby largely increasing the demand. Such action at hundreds of points would take a very large amount of live decreasing very much the demand at those points.

There would be an enormous saving in the amounts paid for freight, yardage, commission, shrinkage, loss, etc., and the return freight and inetc., and the return freight and incidentals on the meat shipped back.
All this spells prosperity with a big P for just common folks.—(Extracts from a letter by W. F. Ramsay, Blue Hill, Kan.

This matter of cooperation among farmers will be discussed at length before the meeting of the Kansas Im-

before the meeting of the Kansas Improved Stock Breeders' Association which will be held in Topeka on January 9 to 11. President H. J. Waters of the Kansas Agricultural College, who is one of the best informed men on meat production in the United States, will give a lecture on the question, "Shall the American Farmer Become a Meat Packer?" This will be followed by a lecture and demonstration on "The Cutting and Curing of Meat Under Home Conditions," by Prof. T. G. Patterson.

The question is an important one

and these lectures will prove the most valuable of anything offered on this subject in recent years.
While everybody is invited to at-

tend this meeting these matters are so important that they will be pub-lished for the benefit of those who cannot do so.

Feeding for Beef.

I find that some parties are preparing to feed cattle on a mixture of cottonseed meal and hulls. How long would it do to feed cottonseed meal and hulls and a mixture either of corn or of corn chop. I understand that cattle fed on cottonseed meal must be shipped out on a short feed. Don't know if this is right or not. At present price of corn, especially in this locality, we need something that is cheaper than corn to make beef of. Can you give me any information as to where alfalfa meal and corn chop can be purchased, that will be true to the order; that is, if it purports 25 per cent alfalfa and 75 per cent corn chop, a man would get what he bargains for? Are these feeds tested as to purity before being shipped by the state or otherwise?—J. W. Sutherland, Neodesha, Kan.

A great deal of experimental data is available on this subject, chiefly from results of the experiments conducted at the various southern experiment stations where cottonseed meal and hulls are close at hand and in large quantities. It has been the general conclusions that large quan-tities of cottonseed meal cannot be fed to cattle for long periods. Perhaps a considerable amount of this difficulty has been due to the use of meal which is not fresh. The hulls which in the process of the extraction of the large removaed from the tion of the oil are removed from the seed, are used mainly to supply bulk to the ration and are mixed with the meal in varying proportions. For a short fattening period the common proportions seem to be to feed three or four parts of the hulls to one of the meal. Here in Kansas we ordinarily have some form of roughage that is comparatively cheap and readily available, such as corn fodder and sorghum and Kafir fodder and possi-bly prairie hay which is not marketfrom a mixture of weeds or other reasons.

I am inclined to think that for Kansas conditions some corn will be desirable in the ration. As to the results of feeding such a mixture as the ready prepared food of alfalfa and corn chop which you mention, I am unable to give any definite data. We marketed a car load of cattle here this spring which were taken in the half fat condition and given a sixty-day feed. Half of these cattle were fed a mixed ration in which alfalfa meal and corn chop were combined, starting with equal parts by weight starting with equal parts by weight of each, gradually decreasing the amount of meal as the period prograssed. The other group of cattle were fed alfalfa hay in connection with corn chop. As a result of this single test we found that the cattle receiving the hay made better gains then the ones receiving the alfalfa than the ones receiving the alfalfa meal and corn chop ration.

I am unable to give you the names of dealers who are supplying mix-ture of this kind. All feeds sold in Kansas must be guaranteed as to the percentage of protein and the percentage of fat. This of course does not give any definite information as to just what materials may be contained in the feed.

I would question the combining of any considerable quantities of cottonseed meal with alfalfa or alfalfa meal. While I do not know, I am inclined to think that there would be too great a lazative effect from this combination. A letter addressed to some of the southern experiment stations as Texas. Oklahoma, Arkansas, Mississippi, and North Carolina would probably bring you bulletins dealing with this subject.—G. C. Wheeler.

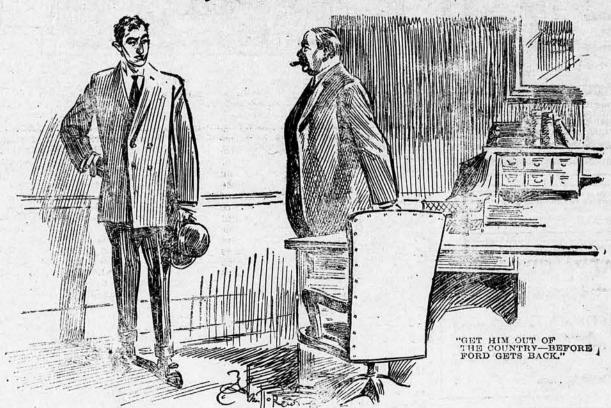
It is not enough to raise crops and live stock. They must be marketed. When you come to doing this how much easier it is to sell if these crops or stock are of high quality and how much better prices are realized. really costs but little more to raise good stuff than it does to raise poor and good stuff sells itself.





EMPIRE BUILDERS

By FRANCIS LYNDE



SYNOPSIS OF PRECEDING CHAPTERS.

Stuart Ford, superintendent of the Plug Mountain branch of the Pacific Southwestern railroad, and Jack Frisbie, constructing engineer, determined to make the branch pay. Ford went to New York to see President Colbrith, and on the train helped a young lady who had lost her purse. At President Colbrith's office Ford met Chrs. Adair, a nephew, who succeeded in getting his uncle to advance the capital necessary to get control of the majority of stock, Ford returned to Chicago and President Colbrith came west with a party, one of whom was the young lady Ford had assisted, Miss Alicia Adair. After a long, hard fight Ford succeeded in floating the stock and the bonds were sold to a Dutch syndicate, Superintendent North, Ford's enemy, and Brian MacMorrogh, a contractor, went to New York for a conference with Fresident Colbrith, which resulted in President Colbrith giving the contract to MacMorrogh Bros., and ordering Ford to consult North in all cases of doubt. Ford then visited the mining camps where railroad rightofways were in dispute, found that saloons and gambling halls were running, and bought a half interest in the Little Alicia mine, SYNOPSIS OF PRECEDING CHAPTERS.

CHAPTER XIV.

THE DRAW-BAR PULL.

THE BRAW-BAR FORM.

TORNEY Kenneth had many more object-lessons in the study of open camps" on the three-day return ride to Saint's Rest. The day of stop-over in Copan chanced to be the MacMorrogh Brothers' monthly pay-day, and until the men's money was spent pandemonium reigned along the line of the extension.

men's money was spent pandemonium reigned along the line of the extension.

Some of it they dodged, riding wide to pass the larger camps, and hearing from afar the noise of carousal, the fierce drinking songs of the Magyars, the fusillades of pistol shots. So far as they could see, all work appeared to be suspended; and Major Benson, whose camp of engineers they picked up in one of the detours around a gulch head, confired that conclusion.

"It was the same way last month," raged the major, twisting his fierce white mustaches and looking as if he would like to blot the name of MacMorrogh from the roster of humanity. "It'll take a full week to get them into the swing again, and MacMorrogh will be up with his estimates just the same as if he had been working full time, I'll cut 'em; by the gods, I'll cut 'em! And you must stand by me, Mr. Ford."

There was the same story to be listened to at Brissae's tie, camp; and

time. I'll cut 'em; by the gods, I'll cut 'em! And you must stand by me, Mr. Ford."

There was the same story to be listened to at Brissac's tie camp; and again at young Benson's headquarters, which were on the mountain section. This last was on the third day, however, when the madness; was dying down, Some of the rock men were back on the job, but many of the gangs were still grievously shorthanded. Ford said little to Kenneth. The pandemonium spoke for itself. But on the third night, when the long ride was ended, and Pietro, Ford's cook and man-of-all-work, was serving supper in the caboose office-onwheels, some of the bitterness in Ford's heart slipped into speech.

"Can you see now how it takes the very marrow out of a man's bones. Kenneth? You may think of an engineer as a man of purely bull-headed purposes, merely trying, in a crass, materialistic way, to get a material thing done. I want to do a big thing, and I'd like to do it in a big way. It is a big thing—the building or this extension. If it doesn't add another star to the flag, it will at least make one state twice as populous, twice as prosperous. It will add its quota to the habitable surfaces; and it's a good quota—a land that some future generation will love, and swear by, and fight for, if need be. And to think that for one man's narrow-mindedness and another's greed we've get to

christen it in blood and muck and filth and dishonesty—it makes me sore, Kenneth; sore and disheartened."

"I don't blame you," said the lawyer, reveling, though he would never mave admitted it, in the comfort of the caboose headquarters journey's end. "But you'll pull through; you'll build your railroad, and the mistakes that are made won't be your mistakes. It's a horrible state of affairs, that in the MacMorrogh camps; a blot on our boasted civilization. But you can't help it, Or rather you will help it if, and when, you can."

Ford was shaking his head dejectedly.

and when, you can."

Ford was shaking his head dejectedly.

"I don't know, Kenneth, It's getting next to me, even at this early stage of the game. Have you ever stood on the front car platform of a train nearest to the engine and watched the jiggling draw-bar? It is apparently loose; its hold on the engine seems to be no more than that of the touch of clasped hands in a gipsy dance. Yet it never lets go, and the drag of it is always there. By and by, when the coal is all burned, and the fire is out, and the water is drained from the tank, those gentle little multiplied jerks, will pull the big engine down-kill it—make it a mere mass of inert metal blocking the way of progress."

"Well?" said the attorney.

"It's an allegory. I'm beginnig to feel the draw-bar pull. Sooner or later, North and his clique will drag me down. I can't fight as the under dog—I never learned how; and they've fixed it so that I can't fight any other way."

fixed it so that I can't fight any other

Kenneth had lighted his cigar and was lying back against the cushion of the car-seat. After a little, he said: "Just after we saw the Italian killed last week I told you I had a notion, Ford. I've got it yet, and I've been turning it over in my mind and wondering if I'd better explode it on you. On the whole, I think I'd better not. It's a case of surgery. If the patient lives, you'll know about it. If the patient dies, you'll be no worse off than you are now. Shall we let it rest at that?"

you are now. Shall we let it rest at that?"

Ford acquiesced. He was too utterly disheartened to be curious. But if he could have foresen the results of Kenneth's notion it is conceivable that he would have been aroused to some effert of protest, as even in deep waters one prays sometimes to be delivered from his friends.

It was a week after this farewell supper in the caboose hotel at Saint's Rest when Ford went down to Denver to borrow, on his P. S-W. stock, the ten thousand dollars to be deposited to the credit of the Bank of Copah. Following hir, and only one

the ten thousand dollars to be deposited to the credit of the Bank of Copah. Following him, and only one train behind, came Frisbie, new from a confirmatory survey of the extension beyond the Copah district.

On his return from the Green Futte end of the proposed line, the little man with the diabolical fashion of beard trimming had spent a week in and around Copah, picking up yard rights-of-way, surveying approaches, and setting grade stakes for the outlying MacMorogh gangs. During that week he had made a discovery, and since he believed it to be all his own, he journeyed eastward to share it quickly with his chief.

Ford was dining alone at the Brown Palace when Frisbie, coming straight from the Plug Mountain train, found him. There was an entire western desert to be talked over during the courses, and Frisbie held his discovery in reserve until they had gone to smoke in a quiet corner of the great rotunda. Even then he approached it indirectly.

"In taking up the line down the Pannikin we have followed the cital one to smoke the course of the great of

"In taking up the line down the Pannikin we have followed the old S. L. & W. survey pretty closely all the way from start to finish. What were

your reasons, Stuart?" he asked.

"There didn't seem to be any good reason for not following it. Brandreth made the S. L. & W. preliminary, and there isn't a better locating engineer in this country."

"I know," said Frisble. "But the best of us make mistakes, now and then. Brandreth made a pretty sizable one, I think."

"How is that?"

"You know where the big rock-cut-

able one, I think."

"How is that?"

"You know where the big rock-cutting is to be made in the lower canyon, about ten miles this side of the point where we begin to swing south for the run to Copah—a mile and a half of heavy work that will cost away up into the pictures?"

"Yes; I've estimated that rock work at not a cent less than two hundred thousand dollars."

"You're shy, rather than over, at that. And two hundred thousand dollars."

"You're shy, rather than over, at that. And two hundred thousand dollars."

"You're shy, rather than over, at that. And two hundred thousand dollars in the control of ordinary railroad, wouldn't it? But that isn't all. The cliffs along that canyon are shale-topped and shale-undermined, the shale alternating with loose rock about fifty feet above our line of grade in quarter-mile stretches all along. That means incessant track-walking day and night through the mile and a half of cutting, and afterward—for all time afterward—construction train kept handy under steam to clear away debris that will never quit sliding down on the embankment."

"T'm afraid you are right," said Ford. "It's the worst bit on the entire extension; the most costly to build, as it will be the most expensive to maintain. But I guess Brandreth knew what he was about when he surveyed it."

"Brandreth is a short-line man. He wouldn't lengthen his line ten miles

it."
"Brandreth is a short-line man. He wouldn't lengthen his line ten miles to dodge an earthquake. Ford, we can save a hundred thousand dollars on that piece of track in first cost—to say nothing of the future."
"How? I'm always open to conviction."

say nothing of the future."

"How? I'm always open to conviction."

"By leaving the S. L. & W. survey at Horse Creek, following up the low divide at Emory's Mine, and crossing to enter Copah from the southeast instead of from the northeast. I came out that way from Copah five days ago. It's perfectly feasible; straight-away, easy earth work for the greater part, an dthe only objection is that it adds about twelve running miles to the length of the extension. It's for you to say whether or not the added distance will be warranted by the lessened cost and the assurance of safety in operating. If we cut through that lower canyon cliff it will be only a question of time until we bury somebody, no matter how closely it is watched."

watched."
Ford took time to consider the proposal. There were objections, and he named one of them.
"The MacMorroghs have based their bid on the present survey: they will not want to let that piece of rock work drop out of sight."
"They'll have to, if you say so. And you can afford to be pretty liberal with them on the substituted twelve miles."

you can alrord to be pretty liberal with them on the substituted twelve miles."

"I'll have to think about it over night," was Ford's final answer. "Arrange to give me an hour to-morrow morning and we'll go over the maps and your notes together."

Frisble slept soundly on the gained inch, howing to make it the coveted ell in the morning. He knew the chief objection, which was that Ford, too, was a "short-line" engineer; a man who would lay down his railroad as the Czar of Russia did the St. Petersburg-Moscow line—by placing a ruler on the map and drawing a straight mark beside it between the two cities—if that were an American possibility. (Continued on page 13.)

(Continued on page 13.)

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We have for spring delivery apple, pear, cherry, plum and peach trees, grape vines, berry plants, rhubarb and asparagus, catalpa speciosa, soft maple, hedge, roses, evergreens. Send for catalog and price list, We have certificate of inspection from Kansas and Oklahoma.

J. W. HINSHAW, Eureka, Kansas.

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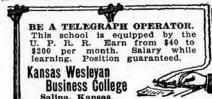
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DEPT. F. TOPEKA, KAN.



Salina, Kansas. 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.

HOME CIRCLE



A simple hearted and truly devout country preacher, who had tasted but few of the drinks of the world, took dinner with an aristocratic family, where a glass of milk punch was quietly set down by each plate. In silence and happiness this new Vicar of Wakefield quaffed his goblet, and then added: "Madam, you should daily thank God for such a cow."

"Mrs. O'Rooney," said Father Mc-Murphy, "why do I never see Patrick at church now?" Mrs. O'Rooney shook her head

"Is it Socialism?"
"Warse than thot, your riverence." "Is't Atheism?"

"Warse, your riverence."
"What is it, then?"
"Rheumatism."

Easy Advice.

Don't put your friend in a position where he must deny your request.

If you want to please a man, get through talking so that he can begin.
If you have a strong point in your character, don't make it a weakness by admiring it too much.

Breathe Through Your Nose.

Teachers of physical culture insist that their pupils shall keep the mouth closed during all physical ex-ercises. Every athlete will vouch for it that he keeps his wind longer by breathing through his nose. Just as soon as he begins to breathe through the open mouth he loses ground. His mouth becomes dry and parched, and a sharp pain in his chest soon forces him to desist the exercise.

"Breathe through the nose," is a maxim which cannot be too often repeated or too emphatically repeated.

As a well-known man once said, "Keep your mouth closed when asleep, and at all other times when not necessary for the purposes of eating, drinking or talking."

Josh Billing's Guide to Health.

Never run into debt if you can find anything else to run into.

Be honest if you can; if you kan't be honest, pray for help. Marry yung, and if you make a hit, keep cool and don't brag about it.

Bathe thoroly once a week in soft water and kasteel soap, and avoid

tite butes. Exercise in open air, but don't saw

wood until you are obliged to.
Laff every time you feel tickled, and laff once in a while ennyhow.

Eat hash washing days, and be thankful, if you have to shut your eyes to it.

Be kind to your mother-in-law, and

if necessary, pay her board at some good hotel.

Hold the baby half the time, and always start the fire in the morning and put on the teakettle.

The Persian Housekeeper.

Housekeeping in Persia is a more difficult undertaking than in western countries. The chief reasons for this are the lack of conveniences, and the fact that many things which in other countries can be bought ready for use must be prepared by the Persian housekeeper.

Do you want flour? You must buy wheat, clean and sift it, and vour send it to the miller, who lives, perhaps, a day's journey from you, says the Los Angeles "Times." You must send with the wheat the most trusty servant you have, who will watch the miller day and night to see that he

Aute Tires At Gut Prices

All the known brands; fresh goods; no retreads; all sizes. Some prices: 23x3, \$11; 30x31-2, \$17; 32x31-2. \$18; 34x4, \$27. Our "New Midwinter List" just issued, gives full particulars telling how and why we quote from 25 to 60 per cent under the regular lists. Send today. ATLAS TIRE COMPANY, 814 Wyandotte St., Kansas City, Mo.

does not take too much toll. You ought, of course, to send a second servant to watch the first, but if you began that there would be no end to the number you would have to send.

Do you want sugar? Loaf sugar, granulated sugar, powdered sugar you cannot buy them. What you can buy is a cone of sugar, about ten inches in diameter, and eighteen inches in diameter, and eighteen inches in height, which comes from Russia or France. If you want lumps of sugar for your coffee and tea this cone of sugar must be placed on the solid floor and by means of a strong knife and a hammer broken into pieces. If you want fine sugar those pieces must be then ground with a mortar and pestle. If ground with a mortar and pestle. If you wish powdered sugar the fine sugar must be sifted several times. Even in the kitchen of a European, where a table will be found, the cutting and pounding of the sugar must be done on the solid earthen floor.

Recognized His Cow.

A judgment worthy of Solomon was pronounced recently by a justice of the peace in Bucharest, Roumania. A certain peasant living in the village of Predeal lost his cow. About two months ago he happened to be standing at the railroad station, watching a trainload of cattle about to be sent across the frontier. Suddenly he gave a shout. "That's my cow," he cried, running toward one of the cars. The trainmen only laughed at him, but he went before the jus-tice. This good man listened to the peasant's story patiently. Then he pronounced this judgment: "The cow shall be taken to the public square of Predeal and milked. Then, if it goes of its own accord to the plaintiff's stable it shall belong to him." The order of the court was carried out.
And the cow, in spite of its ten
months' absence, took, without hesitation, the lane which brought it, a few minutes later, into the peasant's sta-

No. 8458. Girl's Blouse Dress.

For school or every day wear, a blouse dress is always becoming and comfortable. The design here portrayed is made with a round collar, and broad tucks over the waist front. The skirt is straight and gathered. Plaid gingham with broad trimming



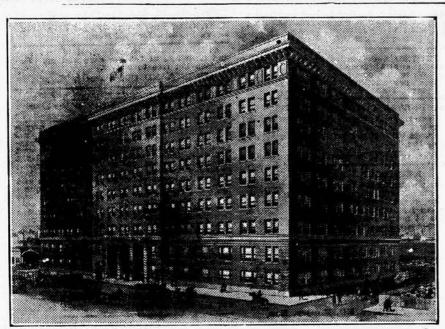
may be used. The pattern is cut in 4 sizes-6, 8, 10, 12 years. It requires 3 yards of 36 inch material for the 6 year size.

A pattern of this illustration will be mailed to any address upon the receipt of 10 cents in stamps or silver.

Oklahoma is one of the best producers of mistletoe. It seems to find in that state just that combination of climate and tree growth best suited to its development. It is a parasite and, contrary to the general belief, is rarely found upon the oak. Only one species is known in Oklahoma and this generally makes its home on the water elm. It grows luxuriantly.

The modern girl who blushes must have some cheek.

At the meeting of the Shawnee Alfalfa Club last week Mr. John Peck stated that during a visit to his old home in a far eastern state he found alfalfa growing on the farm which had been cultivated by members of his family for 106 years and that the yield of corn on this farm is now better than ever. This big corn crop is made possible by alfalfa and live stock, and the present owners feel that it pays to feed the cattle if they get nothing but the manure.



NEW LIVE STOCK EXCHANGE BUILDING AT KANSAS CITY.

The new Exchange Building at the Kansas City Stock Yards has just been completed, and will be occupied by the Stock Yards Company; Com-mission Men, Packers, Railroads, and other allied interests at the Kansas City Market on January 1, 1911. This building is the most complete and perfect live stock exchange building in the world and the largest office building in Kansas City. It is 250 by 126 feet in size, nine stories high, and

vators. covers four and one-half acres, and hallways, if stretched out, would exgraph offices, barber shop, etc.

The old Exchange Building will now be removed, and the space oc-cupied by it, and the street leading to it, will be used for unloading chutes and for additional cattle pens. The constant growth of the Kansas City market necessitates the conservation market necessitates the conservation of every inch of available ground, and it has cost the Stock Yards Company a big amount of money to keep ahead of the demand for greater facilities. The company has also labored incessantly to enlarge the demand at Kansas City for all kinds of live stock. Fight large packing live stock. Eight large packing houses are now located convenient to the yards, and hundreds of small kill-ers at outside points all over the country have been induced to buy their stock at Kansas City, through resident buyers. Besides this the stocker and feeder clientele of the Kansas City market now extends far to the east, beyond the Mississippi river. A third more stock and feeding cattle were shipped from Kansas in the fall of 1909. The large number of buyers constantly on the Kanpatrons of that market for their live

ing you. look at them.

Ever notice how conceited a man He must feel big about something if it is only his feet.

is equipped with six high speed ele-Floor space in the building tend a distance of one mile. Every modern convenience has been in-stalled in the building, and it is strictly fire proof throughout, of steel frame construction. On the 9th floor is a first class restaurant and the rooms of the Hoof and Horn Club. On the first floor are postoffice, tele-

City to Illinois and Iowa last fall than sas City market, and the unlimited variety of their wants, not only insures the highest market price to the stock, but means the prompt sale of same, and instant payment therefor. At no time during the past few years has there been any accumulation of stale stock in the yards whatever, a thing that old time shippers fre-quently ran into, to their cost. Cat-tle and hog receipts show a falling off in 1910 from the preceding year, account of crop conditions in local territory in 1909, but sheep receipts this year have been heaviest on record. A good corn crop in Kansas City territory this year means cheaper feed than in recent years, and insures a big trade at the Kansas City market

When a man knows where to make a dollar he goes after it without tell-Better dodge the great money making schemes that are so freely advertised to let you "in on the ground floor" until you have had a

"Study," like "education," is clothed with a new meaning in the indus-Formerly it trial schools of today. applied to work with books alone. Now it is quite as appropriately applied to the observation and comparison of processes and results, mechanical as well as natural.

A white-wash to which has been added some paris green will protect trees against damage by rabbits, mice and other vermin. All litter mice and other vermin. All litter and weeds which would harbor mice should be removed from about the roots of the tree. Wire netting will also protect trees against rodents.

BEFORE BUYING AUTOMOBILE

Subscribe For THE HORSELESS AGE

(WEEKLY)

And get posted on what the leading automobile manufacturers have to offer you. After buying your automobile, be sure to -

READ THE WEEKLY MAGAZINE

It is edited and published for the man who drives his own car.



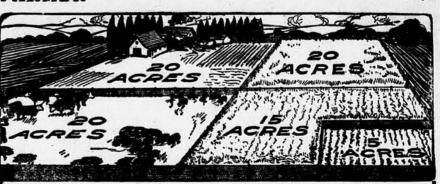
Every issue contains valuable instructive information time, trouble and money. All new models of cars, and new accessories fully described and

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THE HORSELESS AGE COMPANY

Room 9, Motor Hall, 54th St., New York.



One Animal and Three Hogs to an Acre

HIS is a fair estimate of the average feeding ability of the soil. On a farm of 80 acres the highest limit of efficiency is 20-acre fields. Large fields diminish the earning power because two small fields alternated will furnish much more support for stock than the same average in one big field. The fence is the important factor; and with the liberal use of gates, unlimited extension and alternation is simple.

The steel in Ellwood fence is specially made from carefully selected stock. It is hard, elastic, tough and springy. The line wires, composed of two or more wires twisted into cables, give each individual wire the shape of an elongated, coiled spring. The fence is therefore sufficiently elastic to take care of expansion and contraction, and yet so rigid when properly stretched shape.

The steel in Ellwood fence is simple. The small and permanent mesh is made by weaving one continuous wire throughout the fabric. The mesh or stay wires are so interwoven that slipping is impossible. The triangular truss is the strongest form of construction known. For this treating its way is a sto prevent sagging. The small and permanent mesh is made by weaving one continuous wire throughout the fabric. The mesh or stay wires are so interwoven that slipping is impossible. The triangular truss is the strongest form of construction known. For this therefore sufficiently elastic to take care of expansion and contraction, and yet so rigid when properly stretched shape.

Ellwood Fence is sold in your town. Look for the Ellwood dealer and let him show you his different styles of fence and quote you his low prices. Get his expert advice on your special needs. He is on the spot, buys in large quantities, gets the lowest carload freight rates, demonstrates quality before your eyes and is the man from whom you will get the most for your money.

FRANK BAACKES, Vice President and General Sales Agent

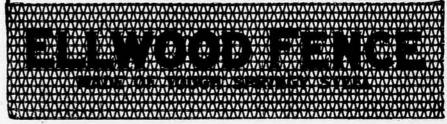
American Steel & Wire Co.

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licood Fence News, profusely illustrated, devoted to the interests of farmers and showbe employed to enhance the earning power of a farm. Furnished free upon application.



FINE FOUNTAIN PEN For You

Everybody writes, more or less, with a pen. A high grade, smooth writing fountain pen is a delight.

The pen here shown is the

Nº40 → ₹

REX EAGLE PENCIL CO NEW

Rex No. 40 Fountain Pen

Made, sold and guaranteed in every particular by the Eagle Pencil Co., New York. It is fitted with a genuine 14-K, solid gold pen. It is guaranteed to last as long, and to write as sat isfactorily as the best \$5.00 foundtain pens ever sold.

Just the thing for school work, as well as for all other writing. It will not leak, spatter, over-feed or blot. Nor will it corrode and thus underfeed. This pen brings in only praise from those who are using it. Any of these pens found of unsatisfactory use will be instantly exchanged for new ones, or for the money sent to secure them. They sell for \$1.00 to \$2.00 apiece, depending on the profit dealers can get on them.

You Can Earn One Easily

Send us a NEW subscriber to KANSAS FARMER for a year, together with \$1.00, the regular price, and we will send you one of these pens, without any further cost to you, whatever You can easily get a friend or a neighbor to subscribe for Kansas Farmer if you will show them the paper, and tell about the many good things in it in the course of a year.

To try it is practically to get one of these fine fountain pens, in a few minutes' time. Will you make the effort?

KANSAS FARMER KANSAS TOPEKA

BARGAINS AND LANDS

LIVE REAL ESTATE AGENTS WANTED

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

This is one of the best land propositions now open for sale. It is a straightforward project—ene of the most highly meritorious ever developed. All available land will readily be sold. It is desired to sell all that is for sale by March, 1911. The price is right—so are the terms of sale. Liberal cash commissions paid; literature furnished free. Also conveyance to and from the land from railroad station two miles away. Besides, this is being widely advertised in western papers. I MEAN BUSINESS. WRITE ME TODAY FOR FULL DETAILS.

E. L. GARVER, Box 142, Topeka, Kans.

TWO EASTERN KANSAS LAND SNAPS

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

BALDWIN & CATE, Manhattan, Kansas.

COME TO FORD COUNTY AND GET RICH

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

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

EASTERN KANSAS GRAIN AND STOCK FARM.

400 acres. 5½ miles from Osage City, Kan., 100 acres in cultivation, 10 acres good timber, 8 acres good orchard, balance native grass pasture and meadow, 5 room house, good cellar, 2 good barns with loft, granary, hen houses, hog and cattle sheds, pleaty of good living water, R. F. D. and phore. Price \$35 per acre if sold by Feb. 1., This is a bargain. Act quick. For particulars write

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

MIAMI COUNTY—Improved farms \$45 up, good terms. Cheaper and better than farther west. List free. Carpenter & Peck, Miami County Bank Bidg., Paola, Kan.

EA. RN KANSAS FARMS \$35 to \$75 per sere; also have mass, to trade for land; we are doing a general exchange business. Richmond Land & Lan Co., Richmond, Kan.

160, WELL IMPROVED, in Eastern Kan-as; want merchandise or good rental property. BOX 123, Richmond, Kansas,

MEADE, Ford, Clark and Gray county land. \$10 to \$20 an acre; prices advancing rapidly; now is the time to buy. Write for full information. Chas. Schwerdfeger, Fow-

1120 ACRE COMBINATION RANCH. 25 head horses and colts above average, and one registered Percheron stallion. Write for particulars. So acres first-class affalfa 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.

FORD COUNTY wheat and alfalfa lands at the lowest prices, Special: 320 acres to exchange for hardware stock. Write us.

LOPP BROS. & WOLF,

Dodge City, 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, cats, corn and wheat, R, F, D, and phone at your door. Price \$20 to \$80 per acre. List free. A, E, ROOT, Fleasanten, Kan.

200 ACRES, 10 miles from Delphos, 40 a. pasture, 160 in cultivation, 175 can be cultivated, creek, plenty of fruit for family use, Good house, barn and outbuildings. One of the best corn and alfaith farms; can be bought for \$75 per acre; ½ cash, balance 6

Box 114, Minneapolis, Kansas.

TRADES.

We will exchange irrigated sugar beet and alfalfa lands, unirrigated wheat and ranch lands, city property, merchandise and live stock for good proposition anywhere, Describe and price your proposition.

CONYERS & PIPPENGER,
Garden City, Kan.as.

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.

GOOD SECTION LAND TO TRADE.

640 acres 6 miles from Liberal, 2 miles from Haynes; all fenced and cross fenced; other improvements; good 240 acres in cultivation; all good land; on telephone line and R. F. D.; close to school. Price \$19,200 Take \$7,500, good rental property. Carry \$5.000 on land and balance cash. This proposition will stand inspection.

LAND-THAYER LAND CO., Liberal, Kru.

BUY OF OWNER—SAVE COMMISSION.
A nice valley farm of 320 a., 3 mi, of Fredonia, county seat, best gas town in state, all tillable, 110 a. in cultivation, balance in all fillable, 110 a. in cultivation, balance in meadow and pasture, good 5 room house, big barn and other improvements, free gas, also income from gas wells on farm, telephone and R. F. D. Easy terms. Buy of owner and save commission. A snap at \$4.2.50. Must sell. Write

1.OCK BOX 807, Fredonia, Kansas.

IF YOU MEAN BUSINESS and have real estate and merchandise of any kind for sale and exchange, and are willing to pay a commission should I make you a deal, write me at once of what you have and desire. 120 acres, 9 miles of town, 50 acres in cultivation, balance good pasture, rolling, plenty water, fair house, some alfalfa, a good stock farm. Price \$2550; \$650 cash, balance terms. A bargain. Good Smith county land for sale. Carl G, Anderson, Athol. Kan.

O. U. BARGAIN HUNTER!

Three fine quarters at \$47 per a., 4 mi, out; 2 choice haif sections, \$40, \$45, \$50 per a., 3 and 4 mi, out. Snap. Two elegantly improved, highly cult, farms joining city, \$100 per a. Many choice trading proposi-

O. E. LOWER, Herington, Kansas,

MARSHALL COUNTY, KANSAS, LAND.

Half section, 2 miles from town, 160 a, under plow, some alfalfa and meadow, real pasture, 6 room house, 8 horse barn and hay mow, 2 good springs, 350 bearing trees; belongs to widow anxious to sell, \$55 per acre on easy terms, Also 25 other Marshall Co farms, E. F. DEWEY, Blue Rapids, Kansas.

THE BEST TOWN TO LIVE IN.

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

SECRETARY of the COMMERCIAL CLUB, Topeka, Kansas.

NEOSHO VALLEY FARMS.

NEOSHO VALLEY FARMS,
We have for quick sale unusual bargains in well improved farms in the rich Neosho River valley from 80 acres and upwards, located near the city of Emporia, Kan, which has the State Normal and the College of Emporia. We also have several suburban orchard and garden tracts from 20 to 80 acres, close in, that will afford nice homes and investments, For particulars and prices address
THE HEATH COMPANY,
Tepela, Kansas,

FAMOUS SOLOMON VALLEY LAND. Improved 80 a., 5 mi, from Minneapolis, Kan., 60 a., in cuit., bal, pasture; good 4 room house, smail barn and other outbuildings; close school; price \$3600. 160 a. 5½ mi, from town; 100 a. in cult., some alfalfa, fair improvements; best soil; \$45 per a. 320 a., ½ creek bottom, good corn and alfalfa land, 6 mi, from town; 173 a. in cult., balance pasture and meadow; fair improvements; close school; 120 a. in wheat. All goes with place. \$45 per a. J. F. HOSKINS LAND CO. Bennington, Cttawa Co., Kansas. FAMOUS SOLOMON VALLEY LAND.

Sold Farm Alvertised Last Week,
Farm 1 mile out, advertised in this paper
last week, sold. Come right down and get
one of these:

160, smooth and good valley land, 10 rm.
house, 6ther improvements to match, three
miles out, \$9000.

160, all fine and tillable, fine spring water, good house, barn, fences and orchard,
7 miles out, \$8000.

160, fine smooth land, well improved, 5
acres alfalfa, 6 room house, good barn and
cattle sheds. Too cheap at \$7200. Terms
on all these. Come before it snows,
DONAHUE & WALLINGFORD,
Mound Valley, Kansas.

FOR SALE

1,700 acres of my 4,400 acre ranch in Kearney county. Kansas, on the Arkansas River and Santa Fe R. R.; 700 acres alalfa land. 60 acres in alfalfa; all fenced with three and four wires; 5 room frame house stone basement; barn 25x50 feet, part stone basement; barn 25x50 feet, part stone basement; stock sheds with fron roof, all well built and 300 yards south of Sutton Flag Station; wells at house, barn and in pasture. Reason for selling: Too big for my Toreman to lock after. John Shinkle will show place. Price \$20 per acre net to me.

H. H. SMALLEY, Springfield, Mo.

SELLING A MONEY-MAKER.

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

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

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

FORD, Clark, Meade and Gray county corn and wheat land \$15 to \$50 acre, on good terms. Write for new list, mailed free, H. E. McCUE LAND CO., Bucklin, Kansas.

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

IMPROVED Anderson county corn, wheat, cats 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 BARGAINS.

160 acres, good improvements, 41/2 miles good town, \$45 acre, Improved 166, 8 miles Garnett, \$6,400. Improved 80, \$3,000. Write for free list.

J. E. CALVERT, Garnett, Kansas.

NESS COUNTY, KANS. S.

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.

640 ACRES

10 miles from county seat, 500 acres smooth, tillable land, 183 acres in cultivation and in wheat, rent share to purchaser; 320 acres second bottom alfaifa land, soil deep black sandy loam, shallow water. Price \$15 per acre. Write quick.

MAIRS & SCHILLING, Kinsley, Kan.

WE HAVE for sale for a few days a beautiful 5 acre tract, one mile from center of this city, with nice improvements, 5 or 6 room house and good outbuildings, fenced in good shape, a dandy home, just the place for chickens, cow and pigs and garden truck, Price \$3500; will take \$1000 in trade, C. W. Hinnen Realty Co., Holton, Kan.

320 ACRES, unimproved, 8 miles Dodge City, about 100 acres rough, all well grassed, near school, \$3,500.
640 acres, 9 miles Dodge, 5 miles station, fenced, cross-fenced, 320 acres in cultivation, school on land, running water fine stock proposition. \$19 an acre, Other lands. New list free.
L. L. TAYLOR & CO., Dodge City, Kan,

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.

ANDERSON COUNTY.

320 a., 140 in cultivation, bal, pasture and mow land, good soil and water, seven room house, large barn, cribs, etc. Five miles to R. R. station, Price \$35 per a. Terms easy, A snap. Write for full information. GEO, W. ILER & SON, Garnett, Kansas.

LOW-PRICED NORTHEASTERN KANSAS LAND,

Produces corn, clover, bluegrass and all staple crops in big yields. We can sell you improved farms here for \$40 to \$50 per acre. Have some good exchanges, Write for full information. THE OWL LAND AGENCY, Ozuwkie, Kansas.

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

160 ACRES

level second bottom, 4 miles from county seal, 100 acres under plow, 1f 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 Let acres easy terms, Joseph D. Price \$65 per gere: Ryan, Abilene, Kan.

440 A. STOCK FARM—IT'S CHEAP—85 a, slope land cultivated, partly alfalfa land, 25 a. fine meadow, 230 a. elegant pasture, nearly all can be mowed, new 6 room house, new barn 26x32, fine orchard, 15 a, hog tight, cistern, well, etc., school and church stone's throw from house, Price \$32.50 a. Other bargains. Write for list, D, M. Watkins Realty Co., Moline, Kan,

GOOD FARM FOR SALE,

GOOD FARM FOR SALE.

James E. Johnson's improved farm in Wabnunsee county, Kansas (county seat; Alma). 200 acres all fenced; has good house and stable; plenty of water, creek flowing through it; 3; of the land under cultivation, balance pasture; soil excellent, and the farm has always been profitable; and the farm is now to be sold to settle an estate, and correspondence is solicited for its purchase. Address A. D. MADDEN, Clarkeville, Chio.

HOMES FOR THE HOMELESS

Our booklet describing lands in eleven of the best counties in Southeastern Kansas. The creapest, the best and the greatest natural advantages for the lowest price, ITS FREE, Send for it. Address THE ALLEN COUNTY INVESTMENT CO., Longton, Ransas.

LOOK AT THIS

80 acres, 4 miles to town, ½ mile to school, 6 room house, good orchard, shade, 2 wells, 60 acres cultivated, 20 acres pasture; every foot can be plowed; lays nice, no rough land. Price \$2800.

A. P. ROSA, Galesburg, Kansas,

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

FARMS, Ranches, Mdse., Trades. Would you build an agency? Buckeye Agency, Agricola, Kan.

WRITE US for list of Kansas farms for sale with map showing location of each farm. Roseberry & Kennedy, Eric, Kan.

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

ANDERSON COUNTY FARMS for sale and exchange at \$40 per acre and up. Expansion list free to buyers.

SIMON LAND CO., Garnett, Kansas,

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

THEY HAVE DONE & FIXED THIS

THEY HAVE DONE & FIXED THIS

320 acres, 220 in cultivation, 50 acres pasture, 59 acres in alfalfa, 320 acres all fenced and cross fenced with woven wire hog tight fence and cement posts. Fine seven room two-story house, Barn for 12 horses, hay mow with grain room for 5000 bushels and corn crib for 5000 bushels. Two double granaries, three new hog houses, large and good. Also milk house, tool house, coal house and chicken house, Large cement fish pond. Watered by good spring in pasture, well and windmill water is piped through kitchen, milk house and two cement tanks holding 500 barrels of water. Four acres of orchard with all kinds of fruit. Located two miles from railroad town, R. F. D, and telephone. One mile to school and 45 miles to Wichita, Kan, Price \$80 per acre, Mortgage \$4800, drawing 5½ per cent interest.

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

WHEAT, CORN, ALFALFA In Meade, Ford and Clark counties; land \$25 to \$50 an acre. List free, Eugene Williams, Minneola, Kan.

LIVE AGENT WANTED in your locality to assist in selling corp, wheat and alfalfa land. We own thousands of acres in Pawnee and adjoining countles. Write for proposition on our own ranches.

FRIZELL & ELY,
Larned, Kansas,

O U LAND SEEKER, TAKE NOTICE.

320 acres, 6 miles from Latham, Butler Co., Kan., all nice smooth land, 140 acres in cultivation, bal, pasture and meadov. good 7 room house, good barn for 30 head of stock and 100 tons of hay, cattle sheds and other good outbuildings, everlasting well and windmill and tanks, This is a No, 1 farm and a bargain. Price \$50 per acre,

No. 1 farm and a bargain. Price \$50 per acre.

160 acres, 7 miles from Latham, all nice smooth land, 50 acres in cultivation, baisnoe meadow land, all tillable, all fenced with hedge and wire. No other improvements. This is a special bargain. One mile to school, on R. F. D. and phone line, Other land in the neighborhood is selling from \$40 to \$70 per acre. Price for 20 days only \$25 per acre. We make exchanging a specialty. For further information address

H. F. ADAMS & CO.

KIOWA COUNTY, KANSAS.

20,000 acres, where wheat, corn and all staple products produce paying crops every year. \$20 and up. Don't write, but come, Edgar B. Corse, Greensburg, Kan.

READ THIS, PLEASE.

Send for list of well improved farms in Franklin county, Kansas, at from \$50 to \$75 per acre. Only 70 miles from Kansas City. PRINCETON LAND CO., Princeton, Ken.

WANTED To buy 240 a, at 860 per a.; \$4400 cash, bollows, and et osuit, Joins town, granary on R. R. right of way. Phone, free gas, B. H. DUNBAR, Tyro, Kansas.

READ THIS BARGAIN

160, Anderson county, Kansas, joining small town, 120 cult., 30 timothy and clover, 7 room house, barn, etc. Price \$8,060, 160, 2½ miles of Welda, Kan; 60 cult., balance meadow; all tillable; no buildings. \$5600.

SPOHN BROS., Garnett, Kansas

JOHN W. BAUGHMAN to sell town lots in Best Little City in Southwestern Kan, Prices \$12.50 to \$50. Easy monthly payments, Best selling proposition ever placed son the market, Good commissions. No Experience Necesary, Full Instructions, You can sell them, Write me today, JOHN W. BAUGHMAN, Plains, Kansas. 20

AN ESTATE AT A BARGAIN

PEATNS TOWN LOTS

641 acres 2 miles city of Thayer; good 6-room house, neatly finished; all good out-buildings; 346 acres in cultivation; 80 acres meadow, balance pasture. Price \$35 per acre: terms. Other lands for sale. Wrice for list

ADAMS & MILLS, Thayer, Kansas.

JUST 10 days left in which to sell improved 80 7 miles of Richmond. Franklin Co., for \$4,000. Can give time on half. Don't wait to write, but come at once. We have a large list. MANSFIELD & CO., Ottawa, Kansas,

FOR SALE 10 GOOD FARMS LABETTE COUNTY KANSAS WRITE US—We grow alfalfa, clover, corn, wheat,

THE BEST FARMS IN KANSAS

HERE ARE OUR LEADERS! TERMS ON ALL THESE.

152 acres, all very dark loam or black soil, lies level with slope enough to drain, five room house and large barn, family creards, 3½ miles to railway station and stock yards, 3½ miles to this city, in fine neighborhood, adjoining farm just soid for \$63 an acre. This land is better, improvements not so good, but our biggest snap. \$45 per acre.

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

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

160 acres finely improved, three miles from this city, ½ mile to school, good ten room house, barn 35x40, with other necessary buildings, natural gas for fuel and light. Farm lies practically level with good natural drainage, 60 acres clover and timothy, 30 acres pasture, balance cultivation, Price \$60 per acre.

240 acres finely improved, 1½ miles from county high school, lays nice with good drainage, good two story six room house, barn 40x60, nice shade, well fenced and plenty of water. Price \$55 per acre.

160 acres, 24 miles from town, lays fine, good dark loam and black soil, 130 acres in cultivation, 8 acres prairie meadow, balance pusture, good six room house, plenty of good water, well located. A snap. \$35 per acre.

100 acres, five miles out 90 acres in cultivation, good soil, four room house, some orchard. A snap at \$35 per acre and will carry \$2.000.

273 acres, extra good, this farm is in the S. E. % of one section and 113 acres of bottom land just across the road, 30 acres affalfa, all the balance out about 5 acres in tame grass and being used for pasture or hay, improvements are ottra good, six from house, new barn 60x60 with mow room for 100 tons of hay, cement floor in cattle apartment, windmill and stock scales, never falling supply of water, school % mile, good town 2 miles. Price 360 per acre. 158 acres, dandy farm in every way, 8 room house, 36x48 barn, well fenced, 95 acres under plow, 18 acres prairie meadow, 44 acres pasture, three miles to trading point, 10 miles to Coffeyville, a fine home and a snap for somebody at \$50 an acre.

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

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

Mound Valley, Kansas

KANSAS LAND

A CHEAP DAIRY FARM.

A CHEAP DAIRY FARM.

Located 1½ miles from the city limits of Wichita, Kan., containing 120 acres of very rich and productive land, 25 acres fine alfalfa; 65 acres in a high state of cultivation; balance pasture and meadow; good 6-room house, large barn, granary, corn crib, chicken house, some cement floors, fine well of water at a depth of 20 feet, large cement water tank, all buildings nearly new and good, all fenced and cross fenced; fine orchard of all kinds of fruit, Price \$100 per acre.

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

I'VE FOUND IT—480 a. farm, 300 a. creek bottom land, 200 a. first class alfalfa land, 100 a. choice meadow, splendid pasture, plenty of timber for posts and fuel, living water in creek, don't overflow, school on farm, 9 miles of Spearville; improvements poor, For quick sale \$25 per acre; good terms; no trade.

STINSON & SHELDON, Spearville, Kansas.

TO EXCHANGE FOR FARMS—A general store, a hardware, a fine residence property, a large hotel, all choice properties in good towns, 320 acre stock farm, well improved and watered, near Anthony, 60 acres alfalfa, A bargain with libera! terms. Smithson-A bargain with libera! terms. Si Holaday Realty Ce., Anthony, Kan.

A BARGAIN-640 ACRES.

24C a, fine bottom land in cultivation, 50 a, mow land, 330 acres pasture, good house of 7 rooms, barn 40x80, cow stable 30x30, granary 12x30, corn crib for 3800 bu., plenty of shed room, 4 good wells; place well fenced and cross fenced. Price \$15,000.

E. H. JONES, Sedan, Kansas.

FARMER To buy 240 a. at \$60 per a.; \$4400 cash, balance to suit, joins town, granary on R. R. right Phone, free gas.

B. H. DUNBAR, Tyro, Kansas.

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

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

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

TEXAS LAND

A FORTUNE IN 40 ACRES

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

THE HEATH COMPANY

GENERAL AGENTS,

109 WEST SEVENTH ST., TOPEKA, KAN.

COLORADO LAND

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 prespective infraction yet. THE WESTERN REALTY CO., Eads. Cols.

EASTERN COLORADO LANDS.

Rich, fertile land, \$15 to \$20 per acre, on good terms. Irrigated tands that produce mammeth crops of sugar beets alfalfa, wheat and oats, \$66 and up. New list and descriptive literature free, Thomas B, Ashlin, The Arkansao Valley Real Estate Man, Granada, Colo,

YUMA COUNTY, COLORADO,

A STATE OF THE PARTY OF THE PAR

lands that raise big crops of all staples, \$10 to \$15 per acre. Good opportunities for homeseekers and investors. I own a few quarters which I will sell cheap.

A. L. KISENGER, U. S. Commissioner, Yuma, Colorado.

MISSOURI LAND

FOR SALE-BARGAIN AT \$65.

FOR SALE—BARGAIN AT \$65.

160 acre farm, near Kirksville, Adair Co.,
Mo., 7 room new house, new barn 42x48,
new outbuildings, fine new cellar, fine orchard of excellent varieties, 3 wells, 120
acres in red clover and timothy, 35 acres in
corn, 1910, 5 acres in timber; land is gently
rolling; 3 miles of R. R., near church and
school; fine black loam soll; 80 bu, corn to
acre this year. A money maker to owner.
Owner has best of reasons for selling, Easy
terms to buyer. Long time on deferred
payments.

MINTER & WINN.

MINTER & WINN. Kirksville, Mo.

CORN, CLOVER, BLUEGRASS—BEST IM-PROVED FARMS IN MISSOURI. For full particulars, terms. etc., address J. P. HART & CO., Butler, Mo.

MISSOURI FARMS.

Well improved farms in best farming section of Missouri, \$50 up. Ranches \$10 to \$25. Natural home of corn, clover and bluegrass, Abundance of pure spring water, Descriptive price list free,

J. H. FREDERICK, Cole Camp, Benton Co., Missouri.

BATES COUNTY wheat, corn. bluegrass and clover farms, \$50 an acre and up. All well improved, money makers from the start. Write or see CANTERBURY & CO.,

FOR SALE

Good corn, wheat and clover farms in Bates Co., Mo. C. W. HESS, Butler, Mo.

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

SPLENDID CROPS

jn Saskatchewan (Western Canada) of wheat was the thresher's return from a Lloydminster farm in the essen of 1800. Meany fields in that as well as other districts yielded from 25 to 35 bushels of wheat to the sare. Other grains in proportion.

Large Profits



OKLAHOMA LAND

GET A HOME.

GET A HOME.

160 acre farm 2½ miles of R. R. town and 5 miles of county seat, 10 a, in cultivation. 40 a, pasture, 10 a, mow land, 6 a, orchard, 5 a, alfalfa, good 6 room house, small barn and granarles, all fenced, 2 fine wells of water, fine grape vineyard, % 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.

EASY TERMS ON THIS 160

160 acre farm, three room house, stable, granary, orchard, also small fruit, well with windmill, all smooth land, mostly in cultivation, one mile from railroad town, all smooth land and good dark soil. Price \$50 per acre. Terms to suit,

J. H. FUSS & COMPANY,
Medford, Oklahoma.

POCKET MAI OF OKLAHOMA FREE to anyone sending us the address of five farmers who expect to change their location Caddo County Farm Bargains,
BALDWIN & GIBBS CO.,
Anadarko, Oklahoma.

INDIAN LANDS FOR SALE.

200 choice farms in N. E. Oklahoma, Low prices and easy terms, Write for map and price list.

LEAVITT LAND COMPANY,

Vinita, Oklahoma, Agents Wanted,

OKLAHOMA REAL ESTATE. LANDS AND CITY PROPERTY, SEND FOR LITERATURE, PERKINS & BOWMAN, HUGO, OKLA.

IRRIGATION ALFALFA FARM CHEAP. Elderly widow must sell 180 acre farm clear city of 10,00° population; ideal climate; in center of "big flow" artesian well old, there alfalfa cuts 8 tons an acre season and apples sell for \$350 an acre on the rees; splendid rich land; adjoining land acre. Address S. Redfield, Roswell, N. M.

STRAY LIST

Geary County—W. B. Spurlock, Co. Clerk.
TAKEN UP—by C. J. Chambers, Milford
P. O., Geary county, Kansas, one red bull
with white spots; 1 year old; no marks or
brands.

H. G. Huckstadt, County Clerk—Pottawato-mie County.

TAKEN UP—One red steer, 1 year past, small letter "M" on right hip; valued at \$25. Was taken up Nov. 30, 1910, by I. B. Plummer, Rock Creek, Moodyville twp.

FIELD NOTES.

The Designer Kind Sell February 11, 1911.
On February 11, C. S. Nevius, Chiles, Kan., will sell his usual good offering of the Designer kind of the large Poland China sows. C. S. Nevius has made a record of freeding and caring for his brood sows in a way that always make good for the purchaser and make him money. Mr. Nevius never overfeeds or has his hogs too fat, but keeps them in good, thrifty, growing condition and they always prove out and make good. If you are not on Mr. Nevius' regular mailing list, write him for a catalog and watch for sale ad in a later issue. Kindly emention the Kansas Farmer when you write. The Designer Kind Sell February 11, 1911.

Poland China Bred Sow Sale.

Poland China Bred Sow Sale.

On February 18, F. J. Miller and E. J. Manderschied of St. John, Kan., will sell 50 head of high class brood sows. Many of them will be bred to the noted boar King Darkness. This great hog is probably one of the smoothest aged boars doing service today. He was sired by the noted Meddler 2d and out of Old Darkness by Welch's U. S. His pedigree is strong in the Black U. S. blood, which gives him both size and quality. Several of the sows will be bred to Peerless Perfection 2d and other good breeding boars. Watch for the sale ad later and send for a catalog. Kindly mention the Kansas Farmer when you write.

(Continued on page 23.)

MORE BIG RED APPLES. (Continued from page 1.)

most interesting, and the discussions, which brought out the experience of members, were highly valuable. These will appear from time to time in later issues of KANSAS FARMER.

Of necessity a considerable portion of the time was devoted to busisess matters. This is true of all such meetings and is one of the things which must be attended to or the work of the institution cannot progress. It was with real gratitude, therefore, that the members after listening to business and professional topics for a considerable time were permitted to hear an address such as that delivered by Dr. C. S. Harrison, President of the Nebraska Horticultural Society and a life member of the Minnesota Society. Although in his 79th year and afflicted with rheumatism, the Doctor entertained his audience with his address on the "Mission of Beauty" as but few men could do who are not so handlcapped. Some of the points brought out by the Doctor were impressive in that they served to fix in the minds of his auditors the important points of his address by contrast. He spoke of the farm in which the front yard is made a hospital for disabled machinery and over-active pigs and chickens. Such a place has no adornment whatever, and suffers from the dull grind of toil. The whole place "is a great pasture for raising grouch." Con-trasted with this is another farm of which five acres are set apart for adornment, in which the farmer plants trees and the Almighty glorifies them. The orchard is a garden of fragrant flowers in spring time, while the fascinating beauty of the fruit, blushing in their leafy coverts of blended greens and red and gold is the joy of autumn.

Green is the universal color. It is refreshing and restful to the eye and to the soul. The frost touches the shrubs and trees and glorifies earth's landscapes by the brushes of unseen artists which produce a rich and fascinating riot of loveliness, a witchery of charm. This earth is but the porch, the entry way to another. To some who are nearing the border there comes the foreshadowing of the glory verse in all its vastness is planned along lines of beauty. God's capital is the climax of the arc of Him who wove the mantles of the stars, tinted the petals of the flowers and painted the bow of hope on the brow of the storm. Let us surround ourselves with beauty and let this be prophetic of the life to come.

Maple Syrup—Home Made,

If you have never tried home-made maple
syrup, made with Mapleine, you have not
learned of what is one really good thing to
eat. Mapleine is on sale in grocery stores.
Its cost is very little. Complete directions
for use are on every package. Once you
use this, it is very littlely to be a regular
article of diet in your household. The
writer of this uses it and has done so for
several years, and finds it a good thing.
It is recommended for that reason. If you
write the Crescent Mfg. Co., Seattle, Wash,
they will send you a very interesting booklet on the preparation and use of Mapleine.

HORSES AND MULES

THE BEST IMPORTED HORSES, \$1,000 each. Home-bred, registered draft stallions, \$2° to \$600 at my stable doors. Address A. LATIMER WILSON, Creston, Iowa.

HOME-BRED DRAFT STALLIONS \$250 to \$600; imported stallions, your choice \$1,000. F. L. STREAM, Creston, Iowa.

REGISTERED HORSES

O. K. BARNS, SAVANNAH, MO.,

W. E. Price, Proprietor.

Dealer in registered horses, Three very fine stallions to SELL AT ONCE. Also the best stud colt in the state. Write for description of stock, I can suit you.

PERCHERON HORSES, HOLSTEIN-FRIE-

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

JACKS

I have on hand a large collection of the best stallions the world produces. I have the best line of big boned, dapple gray and black, ton stallions that can be shown in the United States this season. These stallions measure from 12 to 14 inches below the gamble and from 11 to 13 inches below the gamble and from 11 to 13 inches below the knee and carry corresponding quality They run in weights from 1,800 to 2,630 pounds each. I am offering greater attractions in stallions than other importers. Prices the lowest.

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

I have also forty
I have also forty
In foal, for sale.
W. L. DECLOW,

Cedar Rapids Importing Farm, Cedar Rapids, Iowa.

Register your jacks in the American Jack Register. Write for blanks,



KENTUCKY MAMMOTH JACKS.

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

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



FIGHT HEAD OF
JULIAN FOR SALE,
Yearlings to 6 years
old; 5 good mule Jacks
from 14% to 15½ hds.,
jack measure; very
smooth bodied; priced
to sell. Come and see
them.
G. W. OVERLY,
McCune Crawford Co.,
Kansas,

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, Kaz.



JACKS AND JENNETS

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

PHIL WALKER, Moline, Elk Co., Kansas



Lawson is 40 miles northeast of K. C.

JACKS AND STALLIONS.

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



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, Dearborn, 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.



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

ANGUS CATTLE

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

PARKER PARRISH & CO. HUDSON, KANSAS. Pure Blood Angus Cattle

Herd bulls: Japan Ito, Envoy 2d, Evener 2d, Jelt'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.

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. Inspec-tion invited. Farm adjoins town.

D. C. VAN NICE, Richland, Kansas,

JERSEY CATTLE

LINSCOTT JERSEYS

Offers a few choice cows in milk and some bred heifers. Milk and butter records ac-

R. J. LINSCOTT, Holton, Kansas.

Jerseydale Stock Farm

Imported and American Bred Jerseys. Carthage, Mo. PHIL HANNUM, JR., Owner.

I am offering a yearling buil ready for service, out of a five-gallon cow, bred along the same lines as the cow that won at the World's Fair, at a very reasonable price. Write today if you are in need, as I price stock at figures that sell them,

Grade Jerseys bought on commission,

JERSEYS FOR SALE PRIVATELY. Bulls old enough for service sired by Beatrice Stockwell, Golden of Spring Hill and Donella's Jewell. Also cows and helfers rich in the blood of St. Lamber, Coomassie, Golden Fern's Lad, etc. Reasonabde prices,

S. S. SMITH, Clay Center, Kansas. GOLDEN RULE JERSEY HERD.

Headed by Ooneri's Eminent by Eminent Rosette, tracing to Golden Lad on sires, and out of the noted cow, Financial Queen. The dam of Ooneri's Eminent was the \$1000 cow Ooneri 2d by Gueonon's Golden Lad \$2188

JOHNSON & NORDSTROM, Clay Center, Kansas.

TO MAKE ROOM FOR WINTER I 20 HEAD REGISTERED COWS

Forty head to select from; also a foul calves.

J. B. SMITH, Beatrice, Nebraska.

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 helfers at reasonable prices. These are bred to Oxford Masterpiece.

W. N. BANKS, Independence, Kausas.

SHORTHORN CATTLE

ELM GROVE FARM.
Shorthorn cattle and Percheron horses.
Write for description and prices,
ISAAC NOVINGER & SONS
Kirksville, Missouri.

RENO HERD SHORTHORNS

Five extra good Scotch and Scotch Topped bulls, 10 months old. Roans and reds, sired by Victor Archer and Forest Knight by Gallant Knight, Priced right, R. A. Stewart HUTCHINSON KANSAS

Tomson Shorthorns

Herd Bulls—Barmpton 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.

T. K. TOMSON & SONS, Dover, Kan.

R. R. Station Willard, on R. I., 16 miles west of Topeka,

Humboldt National Stock Farm

Shorthorn cattle, large type Poland China hogs, 10 spring boars and glits priced right. Write me your wants, I meet parties at trains. We can do busi-ness. Come and see me,

H. F. PELPHREY & SON, Humboldt, Kansas,

SHORTHORN CATTLE

SHORTHORN CATTLE — Richland Grove Farm, breeders of Shorthorn cattle and Berkshire hogs. Lavender Goods No. 300096 and Victor Orange lead this herd. Lavender Goods sired by White Goods; Victor Orange stred by old Victorious. Address H. R. Cof-fer, Savannah, Mo.

NEW BUTTERGASK SHORTHORNS.

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

10 SCOTCH BULLS

from 10 to 14 months old. One roan, 9 reds, sired by show bulls and out of show cows. Must be sold to make room. Priced at \$75 to \$125. These are all good. I make steers out of my poor ones. Come at once. They will suit you,

COL, ED. GREEN, Florence, Kan.

Pearl **Shorthorns**

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MILKING SHORTHORNS, BULLS AND helfers for sale; descendants of Florence Airdris 6th, record 495 lbs. butter in 365 days. Gerhard Regier, Whitewater, Kan.

HOLSTEIN HEIFERS—A NICE BUNCH of 2-year-old springers, many practically full blood, bred to registered bulls; all tuberculin tested; any number you desire. Ira R. Romig, Station B, Topeka, Kan.

ALYSDALE SHORTHORNS—HERD headed by Archer's Victor No. 292012. For sale, a choice lot of richly bred, yearling bulls; also some heifers and cows, at prices easily within the reach of any farmer who wishes to improve his herd. Write or call on Chas. W. Merriam, Columbian Building, Topeka, Kan.

HORSES AND MULES,

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

FOR SALE—TWO WELL BROKE SPOT-ed stallions 3 years old and sound. C. W. Veisenbaum, Altamont, Labette Co., Kan.

FOR SALE—TWO BLACK PERCHERON stallions coming 3 years old, sired by Bosquet; will sell them cheap if sold in the next 30 days; will trade them for cattle or mares. Chas. Freeman, Belvue, Kan.

BOGS.

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.

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SEED COKN, PEDIGREED, GUARAN-teed, graded; Boone County White; yielded 80 bu. Price \$2 per bushel. J. F. Haynes, Grantville, Kan.

seems worth investigating; % cost on your clover seeding saved by writing to me. Otto Greef, Pittaburg, Kan.

REGENERATED SWEDISH SELECT oats, the thinest skinned, heaviest yielding oats in America; guaranteed free from smut: 75c per bu, graded, sacked in new grain sacks, loaded on board R. I. cars Rydal or Mo, Pac, at Scandia. H. A. Bushby, Rydal, Republic county, Kansas.

WANTED — ALFALFA, RED CLOVER, timothy, millet, cane and other seeds. Write to The Barteldes Seed Co., Lawrence, Kan.

WANTED—CANE SEED, KAFIR CORN, millet, popcorn, clover, timothy, etc. Send samples. Hays Produce Co., 24-26 N. Kansas Ave., Topeka, Kan.

HIDES AND FURS.

SHIP HIDES AND FURS TO JAMES C.
Smith Hide Co. Quick returns. Highest prices. Write for prices and shipping tags.
Topeka, Kan.

MISCELLANEOUS.

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

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BUILDERS **EMPIRE**

But he knew, too, that the safety clause would weigh heavily with Ford, and there was no minimizing the danger to the future traffic if the canyon route should be retained.

It turned out finally as the first assistant had hoped and believed it would. Ford spent a thoughtful hour at his office in the Guaranty Bullding before Frisbie came down—the little man being trail-weary enough to sleep late in the comfortable room at the Brown Palace. The slight change of route was hardly a matter to be carried up to the executive committee, and Ford's decision turned upon quite another pivot—the addition of twelve miles of distance. As against this, safety and economy won the day; and when Frisbie came in the talk was merely of ways and means.

"Fix up the change with the Mac-Morroghs the best way you can," was Ford's concluding instruction to his lieutenant. "They will kick, of course; merely to be kicking at anything, I suggest. But you can bring them to terms, I guess."

"By my lonesome?" said Frisbie. "Aren't you going over to see the new route with your own eyes?"

"No. I'm perfectly willing to trust your judgment, Dick. Besides. I've got other fish to fry. I'm going east to-night to have one more tussie with the steel mills. We must have quicker deliveries and more of them. When I get back, we'll organize the tracklayers and begin to make us a rail-road."

"Good," said Frisbie, gathering up his map and sketches of the detour

"Good," said Frisbie, gathering up his map and sketches of the detour country; and so in the wording of a brief sentence or two it came to pass that Ford delivered himself bound and

that Ford delivered himself bound and unarmed into the hands of his enemies.

A little light was thrown upon this dark passage in the office of the general manager, after Ford's train had gone eastward, and Frisble was on his way back to the McMorrogh headquarters on the lower Pannikin. North was waiting when Eckstein came in the lower pannikin.

gone east ward, and Prisste was on the way back to the McMorrogh headquarters on the lower Pannikin. North was waiting when Eckstein came in, flushed as from a rapid walk.

"It's all settled?" asked the general manager, with a slow lift of the eyebrow to betray his anxiety.

"To the queen's taste, I should say," was the secretary's not too deferential reply. "Ford's out of the way, to be gone ten days or a fortnight, and Frisbie has gone back to dicker with MacMorrogh, and to survey the new route up Horse Creek. Ford doesn't know; I doubt if he will ever know until we spring the trap on him. The one thing I was most afraid of was that he would insist upon going over the new line himself. Then, of course, he would have found out—he couldn't help finding out."

The general manager squared his huge shoulders against the back of the chair.

"You think he would call it off if he

The general manager square the back of the chair.
"You think he would call it off if he knew?" he queried. "You give him credit for too much virtue, Eckstein. But I think we have him now. By the time he returns it will be too late for

him to hedge. MacMorrogh will see to that.

Eckstein nodded. "I made a point of that with Brian," he said. "The minute the word is given he is to throw a little army of graders upon the new roundabout. But Ford won't find out. He'll be too busy on this end of the line with the track-layers. I'm a little nervous about Merriam, though."

"He's the man who talked Frisbie into championing the new route?"

a fittle fields about the firship though."

"He's the man who talked Frisbie into championing the new route?"

"Yes. He did it pretty skilifully; made Frisbie think he was finding it out himself, and never let the little man out of his sight while they were in Copah. But I am afraid Merriam himself knows too much."

"Get him out of the country—before Ford gets back," was the crisp order. "It he isn't here when the gun goes off, he can't tell anybody how it was loaded."

"An appointment—" Eckstein began."

"The whot I meen" seid the

"It he isn't here when the gun goes off, he can't tell anybody how it was loaded."

"An appointment—" Eckstein began.

"That is what I mean," said the general manager, turning back to his desk. "We need a traffic agency up in the Oregon country. See Merriam—to-night. Find out if he'd like to have the general agency at, say, twenty-five hundred a year; and if he agrees, get out the circular appointing him."

"He'll agree, fast enough," laughed the secretary. "But I'll nall him—to-night."

Ford spent rather more than two weeks in his round up of the eastern steel mills, and there was a terrific accumulation of correspondence awaiting him when he reached Denver. At the top of the pile was an official circular appointing one George Z. Merriam, a man whom Ford remembered, or seemed vaguely to remember, as one of the MacMorrogh bookkeepers, general agent of the P. S.-W.. with headquarters at Portland, Oregon. And at the bottom of the accumulation was a second official printing, bearing the approval of the president, this; and Ford's eyes gloomed angrily when he read it.

Pacific Southwestern Railway Co.

Office of the President.

New York, August 24.

To All Officials and Employees:

At a called meeting of the stockholders of this company, held in Yew York, August 23. Mr. John C. North was elected First Vice President and General Manager of all lines of this company, operative and under construction. All officers and employees will govern themselves accordingly.

By order of the Executive Committee.

Approved:

Sidney I. Colbrith, President.

(Continued next Week.)

(Continued next week.)

Fitz Overalls.

Recent advance in cotton fabrics have caused some manufacturers of work clothing to substitute lighter weight materials in the goods they put out. Fitz overalis, manufactured by the Burnham, Hanna, Munger D. G. Co., Kansas City, Mo., are kept up to the high standard set in the past. If you ask for and insist on getting Fitz overalis and jumpers, you will be sure of satisfactory wear, fit and style in your work clothes.

JANUARY 3rd, 1911

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EASY TERMS: 25 per cent down, balance in one, two and three years at 6 per cent. The price includes PERPETUAL WATER-not only the right to have the water-but the actual water every year, forever-more than enough for any crop needs.

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Get on Santa Fe Train No. 5 or No. 9 next Tuesday and come to the address given below. Free transportation to and back from the land from Pueblo. Don't fail to come. If you can't come on Tuesday, come any other day. At least be sure and write for our free descriptive book at once.

Pueblo Land & Irrigation Co.

524-526 N. Main St. Pueblo, Colo.

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If you are intending to purchase a stallion or some mares, call and inspect our horses. We invite inspection, as we know they cannot help but please the most critical buyer. Our prices are low considering the quality and breeding of our offering. Our guarantee is a straight 60 per cent breeding warranty without any clauses attached to same. We have importations arriving every 60 days from now until next June, which always insures a prospective buyer a good string of horses from which to make his selection. GET OUR CATALOG. It is free for the asking.

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CHAMPION AMERICAN BRED MARE Also TWENTY-FIVE other prizes. All of these CHAMPIONS were sired by the world's famous CALYPSO.

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Weanlings to 4 years old in matched teams, including the Kansas State Fair and American Royal champions, all registered or can be registered in Percheron Society of America. Good clean lot of heavy bone mares and bred to the champion stallion of Kansas State Fair at Hutchinson, 1910. Come and see me.

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First importation arrived October 22. The best we could buy in the old country. Our barns are full of Stallions and Mares from 1 to 6 years old with plenty of size and quality. We have 2-year-old stallions weighing a ton or better, and are pricing them at figures that will interest every one contemplating the purchase of stallions or rares. YOU PAY NO AUCTIONEERS OR HORSE COMMISSIONER when you buy from us. Barns located so we can show horses any time between trains. A 60 PER CENT GUARANTEE GIVEN WITH EVERY HORSE.

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H. RICHARDS, Importer

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Also Shetland Ponies. Will have a good

importation of stallions of the breeds mentioned Jan. 1. Now offering special bargains in mares to make room. Call on or write Joseph M. Nolan, Paola, Kan., 40 miles south of K. C. Please mention the Kansas Farmer.

Mule-Foot Hogs.

Mule-Foot Hogs.

John H. Dunlap of Williamsport, Ohlo, starts the advertising of the mule-foot hogs in this issue of Kansas Farmer. Mr. Dunlap claims to have the largest herd of this breed of recorded animals in the country. He finds that the demand for these prolific, disease free hogs is a growing one and he also finds that he has started more than 100 new herds during the past year by selling from one to 10 head to each new owner. If you will mention Kansas Farmer and write Mr. Dunlap he will quote you prices and tell you more about

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Greenwood County Nursery

Verst secret worth knowing, A. Jan. 15.15

Greenwood County Nursery.

The catalog being sent out this year by I. W. Hinshaw, proprietor Greenwood County Nursery, Eureka, Kan., is an interesting one. Here is a fine line of homerown nursery stock, consisting of fruit trees, shade and ornamental trees. Also herry bushes and shrubbery. As a Kansas institution, this nursery is ent'tled to a goodly share of the patronage of Kansas tree buyers, as well as those in other states, We suggest that all who are planning on setting out trees of any kind in the spring write at once for Mr. Hinshaw's catalog and interesting price list.

FIELD NOTES

O. W. Devine.......Topeka, Kan, Jesse R. Johnson....Clay Center, Kan, R. G. Sollenbarger....Woodston, Kan,



PURE BRED STOCK SALES.

Horses,

Percherons, Belgians and Shires,
Jan. 10, 11, 12, 13, 1911—Breeders' Sale Co.,
Bloomington, Ill.
Jan. 12.—J. A. Fee & Son. Stafford, Kan.
Jan. 24, 25—L. R. Wiley & Sons, Elmdale,
Kan.
Feb. 28 and March 1, 2, 3, 1911—Breeders'
Sale Co., Bloomington, Ill.
Feb. 14.—J. C. Robison. Sale at farm, Towanda, Kan.

March 1, 2-W. J. Finley, Higginsville, Mo. March 7-G. C. Roan, L. Plata, Mo.

Shorthorns.

Jan. 18—Chas, D. Knight, Oketo, Kan.
Jan. 26—Mitchell County Breeders' Association, J. W. Rogers, secretary, Beloit, Kan.
Feb. 8—T. J. Charles, Republic, Kan.
Feb. 21—S. B. Amcoats, Clay Center, Kan.
June 6—C. S. Nevius, Chiles, Kan.

Holstein Cattle. eb. 7. 8, 1911—Rock Brook Farm, Sta. B, Omaha, Neb., 150 head will be offered.

Herefords,
Jan. 26—Mitchell County Breeders' Assiciation, J. W. Rogers, secretary, Beloit, Kan. Feb. 28—Jones Bros., Council Grove. Kan. Feb. 17—J. O. Bryant, Savannah, Mo. Feb. 18—James A. Larson, Everest, Kan.

Polled Durhams.
Feb. 14—C. J. Woods, Chiles, Kan, Includes show herd,

Jan. 24—H. L. Bode, Friend Neb. Feb. 16—Fantz Bros., Pleasa. & Hill, Mo,

Duroc-Jerseys.

Duroc-Jerseys.

Jan. 18—Thompson Bros., Garrison, Kan, Jan. 23—E. W. Davis & Co., Glenwood, Mo. Jan. 30—A. T. Cross, Guide Rock, Neb. Jan. 31—Ward Bros., Republic, Kan, Feb. 1—G. C. Norman. Winfiled, Kan. Feb. 1—W. E. Monasmith, Formosa, Kan. Feb. 2—G. P. Fhillipi, Esbon, Kan. Feb. 2—G. P. Fhillipi, Esbon, Kan. Feb. 4—W. C. Whitney, Agra, Kan. Feb. 4—W. C. Whitney, Agra, Kan. Feb. 8—C. A. Tiller, Pawnee City, Neb. Feb. 9—Samuelson Bros., Cleburne, Kan. Feb. 14—Chapin & Nordstrom, Green, Kan. Feb. 15—White Bros., Euffalo, Kan. Feb. 15—White Bros., Euffalo, Kan. Feb. 15—White Bros., Euffalo, Kan. Feb. 15—Word Red., Feb. 16—W. T. Fitch, Minneapolis, Kan. Feb. 17—Le. Boyle, Lindsay, Kan. Feb. 17—Le. E. Boyle, Lindsay, Kan. Feb. 27—E. R. Morgan, Elue Rapids, Kan.

Kan. eb. 27—E. R. Morgan, Blue Rapids, Kan. larch 1—Frank Elder, Green, Kan. larch 15—E. S. Davis, Meriden, Kan. Poland Chinas.

Jan. 24—S. A. Bugg, Hamilton, Mo.
Jan. 26—W. R. Stump, Blue Rapids, Kan.
Jan. 27—A. C. Lobaugh, Washington, Kan.
Jan. 28—J. H. Hamilton & Son, Guide Rock,

Jan. 24—S. R. Stump, Blue Rapids, Kan. Jan. 25—W. R. Stump, Blue Rapids, Kan. Jan. 28—J. H. Hamilton & Son, Guide Rock, Neb. Feb. 3—Baker Bros., Butler, Mo. Feb. 3—Baker Bros., Butler, Mo. Feb. 8—W. M. Ross and W. E. Long, Valley Falls, Kan. Feb. 8—T. J. Charles, Republic, Kan. Feb. 8—W. B. Wallace, Bunceton, Mo. Feb. 9—Albert Smith & Sons, Superior, Neb. Feb. 10—J. E. Bowser, Abilene, Kan. Feb. 10—J. E. Bowser, Abilene, Kan. Feb. 11—W. F. Houx, Hele, Mo. Feb. 11—W. F. Houx, Hele, Mo. Feb. 11—C. S. Nevius, Chiles, Kan. Feb. 14—E. E. Carver, Guilford, Mo. Feb. 15—H. L. Faulkner, Jamesport, Mo. Feb. 16—J. H. Harter, Westmoreland, Kan. Feb. 16—J. H. Harter, Westmoreland, Kan. Feb. 17—J. D. Ziller, Hiawatha, Kan. Feb. 17—W. B. Van Horn, Overbrook, Kan. Feb. 18—George W. Smith, Burchard, Neb. Feb. 18—Miller & Manderschied, St. John, Kan.

Kan.
Feb. 20—H. F. Pelphrey, Humboldt, Kan.
Feb. 20—W. H. Hansen, Abilene, Kan.
Feb. 21—J. W. Pelphrey, Chanute, Kan.
Feb. 22—W. C. Milligan, Clay Center, Kan.
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Feb. 23—Herman Gronniger & Sons, Benden, Kan.

Bred Sows,
Feb. 23—Herman Gronniger & School,
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Feb. 28—W. R. Stump, Blue Rapids, Kan,
Feb. 28—W. R. Pilcher, Glasco, Kan, and
E. C. Logan, Beloit, Kan. Sale at Concordia, Kan.

L. R. Wiley & Son's Percheron Sale.
On January 24 and 25, L. R. Wiley & Son of Elmdale, Kan., will hold a two days' sale at Strong City, Kan., and offer to the public a lot of imported and home bred Percheron, Belgian and Shire stallions and mares, Don't fall to get a catalog of this big sale of 106 head. Watch for page ad next week in Kansas, Farmer.

Standard Poland China Association Meets.
Secretary George F. Woodworth of the Standard Poland China Association of the Maryville, Mo., announces that the next annual meeting will be held in the Live Stock Exchange building in South St. Joseph. The sessions will open at 9 o'clock a. m. on Wednesday, January 4, and the business will include the election of a president, one vice president from each state represented and seven directors.

F. F. Oerly, the big type Poland China breeder of Oregon, Mo., offers some very choice fall pigs by Pawnee Look that are worth going after. These pigs will weigh around 125 pounds and sure have the blood lines of the big type, Mr. Oerly has been advertising his "big types" in Kansas Farmer and now writes that he has sold every one of his spring pigs. He thinks his herd boar, Pawnee Look, is the best pig ever slied by Lecks Grand and there are many who agree with him. Note his advertising card and let him know your wants, mentioning Kansas Farmer.

Increasing Use of Silos.

A few years ago Kansas had no silos. Two years ago she had sixty odd in use. Today she has over 460. The rapid increase in the use of silos is due to the fact that farmers are more and more coming to learn the immense advantages and good profits afforded by good silos. Kansas Farmer be-

lieves in the silo as a great help for every farmer to get more from the products of his labor. No advertising is more welcome to its columns than that of a good silo put out by a responsible contern. In this issue is the advertising of the Unadilia silo. We should like to see our readers who are of a mind to think of getting a silo to write the Hawkins Mfg. Co., 623 Ninth street, Des Moines, Iowa; to get their literature and thus look into the merits of their make, we are sure something of interest will be learned by every one who will write for their catalog and study it.

A Guaranteed Cure for Lump Jaw.

Any farmer who has a lumpy cow knows what lump jaw is. He is more interested in a cure. To this end, we want to say a few words about Adams Rapid Lump Jaw cure. It is so sure and powerful in action, that in most cases only one application is required to effect a complete cure. In any case—no matter how severe or of how long standing—one bottle is guaranteed to cure permanently in three weeks' time. And not a scar or, blemish—not a white hair or any other ...ark is left to show that the cow has been affected by lump jaw. The price of Adams Rapid Lump Jaw cure is only \$1 per bottle, prepaid. You take no risk in using it, as thousands of farmers have had wonderful success with it and you get your money back if it falls to satisty you in every way. Send a dalar bill now to the Lowa.

Most Kansas Farmer readers who are interested in Percherons will remember the stallion Bosquet which stood at the head of the Avery stud at Wakefield and which is a half brother to the great Casino, now heading the Whitewater Falls stud of J. C. Robison. Two of Bosquet's stallion colts, coming 3 years old, are offered for sale at bargain prices by Charles Freeman of Belvue, Kan., if taken within 30 days. Write him and mention Kansas Farmer, please,

Reliable Weather Predictions.

In this issue is an uausui advertisement, It is by Crane & Co., of Topeka, Kan. They publish Prof. Blake's weather predictions in book form, and have so much confidence in the reliability of Prof. Blake's predictions that they will refund the price of the book if it proves unsatisfactory. Crane & Co.'s guarantee can be relied upon, for they are one of the largest publishing houses in the country. Mr. Geo. W. Crane, president and active head of the company, is one of Topeka's foremost and most influential citicus. He would not endorse or stand behind anything which in his judgment would stand to lose him or his customers a cent. Write Crane & Co. for a full list of the contents of Prof. Blake's book, or better yet, send the price of the book. Mentica Kansas Farmer when you order and you will be assured of prompt attention.

Hineman's Jacks,

H. T. Hineman, owner of the Fairview herd of tacks, jennets and Percherons at Dighton. Kan., announces 15 head of black mammoth jacks for sale in his new advertising card this week. Mr. Hineman prides himself on quality, and in view of the fact that he won first prize on jack, first on jennet and first on mule at the Hutchinson State Fair, his claims are surely made good. Write Mr. Hineman about ages, quality and uprices and see if he does not have just what you need. We have yet to see a time when there was not a good market for jacks or mules. There is money in them. Mention Kansas Farmer when you write.

American National Live Stock Association.

The executive committee of the American National Live Stock Association will meet on January 9 at the Westbrook Hotel, Fort Worth, Texas, for an executive session. The 14th annual meeting of the association will open in the Byers opera house at 10 o'clock a. m. on the rollowing day, The roilroads announce special round trip rates from most of the western states and territories and the attendance promises to be very large. T. W. Tomlinson, 909 Seventeenth street Denver, Colo., is the secretary, and he will'be glad to furnish any further information. The Kansas members of the executive committee are i. D. Graham, Topeka; T. M. Potter, Peabody and W. J. Tod, Maple Hill.

Blain's Wonder and Orphan Chief.

Don't fail to send for one of Roy Johnston's Blain's Wonder and Orphan Chief rale catalogs. The sale will be held on January 20, 1911, and breeders should not fail to attend this sale. While there they can have an opportunity to see some fine herd boar prospects by Blain's Wonder and Orphan Chief. Watch for sale ad next week and arrange to attend.

Woodcrest Holstein Herd.

Woodcrest Helstein Herd.

S. W. Cooke & Son, owners of the famous Woodcrest herd of Holstein-Friesian cattle at Maysville, Mo., are offering eight head of richly bred cows and the choice of 18 bulls at a price that when the quality of the cattle offered is taken into consideration will be recognized as a bargain. Cooke & Son are veteran Holstein breeders, having been in the business for the past 35 years, and their herd is second to none in the country. Their herd is headed by World's Fair Sir Gerben No. 35235, sire Sir Josephine DeKoi 38867. Ilis dam, Lady Truth Gerben Meechthilde 48037, made a record in the World's Fair cow demonstration of 21.27 pounds of butter in seven days, and in 120 days 6929.6 pounds of milk and 318.2 pounds butter. During the last week of the cow demonstration at the World's Fair this cow made a record of 19 pounds of butter, and for 17 weeks she averaged 18% pounds per week. Among the 75 cows of this splendid herd are representatives of the following famous Holstein families: Fierterties, DeKo's Gerbens, Korndykes, Mechthildes, Johannas and granddaughter of Sarcastic Lad. Seven of the eight cows offered are in milk and offspring can be seen on farm. Woodcrest Farm is 33 miles cast of St. Joseph on Reck Island railway. The farm and barns are only one-half mile from station. Read their ad in this issue of the Farmer.

Hickory Grove Herd.

Hickory Grove Herd.

Hickory Grove Farm and Hickory Grove herd of big boned black and spotted Poland China hogs, the farmers' kind and the kind that makes the most pork, is well known throughout Missourl, and the proprietors of the farm, George and Olle Taylor, are numbered with Missourl's veterans and successful breeders, they having had 25 years' experience. At the head of their large herd they have such boars as Big Ben, sired by Long Pride 2d, Expansion, Prince Monerch and Mouw's Special. They have sows and pigs by Tecumsch Longfellow by Tecumsch Wonder and a number of sows and young boars by Wonderspot. They now have 16 fine young boars weighing from 100 to 140 pounds. All are choice individuals and are the typical big kind. If in need of a herd loar of the great big kind you can find what you want at Hickory Grove Farm

and the Taylor Brothers are always glad to slick stock whether you are a prospective purchaser or not, and all stock sold by them is sold on a positive guarantee that the animal must be satisfactory in every way or mency will be refunded on return of the animal. Maysvifie, Mo., is their railroad station, and they will be pleased to have visitors inspect their stock.

Free Farm Books.

Free Farm Books.

As a rule, folks are prone to look lightly upon an offer of something that is purported to be of value when, the offer is to furrish the something for nothing or almost that. It is true that something is not usually to be had for nothing. However, the fine line of books offered free by the Deere & Mansur Co., Moline, Ill., are fully worth the having, by every farmer. Deere & Mansur Co, profit in their business when farmers profit in their farming. What helps farmers also helps Deere & Mansur Co, Hence in going to the large expense of publishing their fine line of farm books for free distribution, this company expects to get back the money and with a profit, too, from the increased profits farmers will get by making use of the contents of their broks. It costs only a postage stamp to get from Deere & Mansur Co, books that give value equal to many that are sold in stores for 50 cents to \$1 apiece. If you failed to read the advertisement of these books in Kansas Farmer of December 24, you ought to get that paper and read it now. And hetter yet, zend for such of the books as may interest you.

Kitselman Bros., Box 61, Muncle, Ind.,

Kitselman Bros., Box 61, Muncle, Ind., sells farm and poultry fence very low—13% cents a rod up. Write them for free catalog. See their ad in this paper.

Poland China Sale February 16, 1911,

Poland China Sale February 16, 1911,
One of the leading Poland China sales of the season will be, pulled off at the Wrightwood Farm, near Valley Center, Kan, February 16, when A. P. Wright will offer 50 head of choice brood sows and gilts bred to the three great herd boars. On the Plumb, Sir Bredwell and Home Run 2d. On the Plumb is probably the best breeding boar On and On ever sired. He has sired a number of high class show and breeding animals. Sir Bredwell is by the noted Corrector 2d, the hog that made so much Poland China history and sired so many state fuir winners. Home Run 2d is the most popular bear now on the Wrightwood farm, While he was sired by the noted Home Run He carries a lot of good blood from the old Black U. S. family through his dam. Home Run fd is one of the largest boars of his age in the West and he is not only large but full of quality, he is the ideal type of a big, smooth, western type of a Poland China. Watch for further readers on these boars and remember the sale will be February 16. Send your name in early for a catalog and kindly mention the Kansas Farmer.

Exceptionally Fine Irrigation Project Completed,

This picture shows the head gates and main canal in use to irrigate the 10,000 acres of Arkansas Valley land owned by the Pueblo Land and Irrigation Co., 524-526 N. Main street, Pueblo. Colo. This project is known as Orchard Park. The water supply for irrigating this land is doubly insured. One canal taps the Huerfano River at the bed level. This canal is shown in the picture at the right. In the distance can be seen the head-gates, through which this canal gets its water. Then feeding into this same canal at 4:06 feet from the river is another water supply. This comes through a 38-inch concrete pipe line, taid under the bed of the river for a distance of a mile. The river slopes 26 feet to the mile while the concrete pipe line slopes 11 feet to the mile. This puts the head of the pipe line 17 feet under the river bed on bed rock.



This pipe line is built with huge concrete tile, each tile being 2 feet 4 laches long. For a distance of 4,000 lect up the river bed the joints in this pipe are loose to admit the linflow of the water flowing under the river bed. This under low tun has developed and maintens a giant spring birowing a 38-inch stream of water every minute throughout the year. This picture shows the pipe line discharging its maintain pacity into the main canal augmenting the supply furnished by the surface tas in the river. Besides these two sources of water supply for these 10,000 acres, either one of which is ample to irrigate it all for any kind of crops—there is another provision available—that "" use of all cold feet per second of ... "are second of ... "are

Does Your Horse Shy?

If so, you should write the Visio Remedy Association, Dept. 9, 1951 Wabash avenue, Chicago, Ill., for their description of the causes for horse shying. Sometimes the shying of a horse causes a serious accident and anything that can prevent any such a thing is worth looking into.

The Fairbury Nurseries, Bex L. Fairbury, Neb., are making an unusual offer in their advertisements now appearing in Kansas Farmer. All those who are planning on buying nursery stock in the spring should get prices, terms and descriptions of the stock produced by these nurseries.

J. A. FEE & SON

AT STAFFORD, KANSAS THURSDAY, JANUARY 12, 1911

9 - IMPORTED STALLIONS - 9

TWO TO FIVE YEARS OLD.

- IMPORTED MARES - 9

TWO TO FIVE YEARS OLD.

One American bred registered Percheron stallion, one registered Standard bred stallion. All the mares are bred to an imported Percheron stallion and we believe safe in foal. All the young stallions will make ton horses when matured. We bought these horses in France and we selected the best we could find and they are from the best blood lines we could find and all are registered in the Percheron Society of America. Stafford is on the Santa Fe and Missouri Pacific Ry., good train service. Send for a catalog at once and arrange to attend the sale.

J. A. FEE & SON, Stafford, Kan

AUCTIONEERS-COL. R. L. HARRIMAN, COL. JOHN D. SNYDER, COL. CLYDE C. HORNE.



BREEDERS'

50-Horses-450

January 10, 11, 12 and 13, 1911 On Tuesday, Wednesday, Thursday and Friday, we will sell

400 Imported and Native Bred Registered Fercherons, Belgiums, French Draft, Shire and Clydesdale Stallions

and Mares.

200 HEAD

of Imported Stallions and Mares that will land by sale day. 150 HEAD

of Imported Stallions and Mares that have been here a year. 150 HEAD

of the Best Registered Mares that ever went in an auction ring. 100 Head of Imported Fillies 1 and 2 Years Old. 100 Reg. Stallions

On Friday, January 13, 1911

We will sell 100 head of REGISTERED TROTTERS, GRADE DRAFT, SADDLE and ALL PURPOSE FARM HORSES, STALLIONS, MARES and GELDINGS.

CONSIGNORS—D. Augstin, John C. Baker, Down Bros., M. G. Murry, Moots Bros., D. D. Brotherton, L. B. Wilson, J. W. Cavanaugh, Ed. Hodgson, Sass Bros., Ralph Moore, L. C. Lowery, Ben Bohlander, E. E. Hodgson, Sass Bros., Ralph Moore, L. C. Lowery, Ben Bohlander, E. E. Bernard, Robt. Burgess & Son, Hon. Frank S. West & Son, W. C. Baughman, R. Burgess & Son, Welch & Peck, John H. Weaver, Jake Henning, C. L. Mays. Ed. Heath, W. H. Ritter, A. M. Storm, W. M. Freitag, J. R. Prendergait, Frank Hock, C. A. Hendricksen, T. W. Douglas, J. H. Thompson Warrick Jones, C. A. Jordan, Levi Dillon, F. M. Smith & Son, Wm. Rumney & Son, F. W. Douglas, Dodson Bros., D. E. Stuart & Co., Rowe Bros. Catalog ready December 20. Cur Next Sale Feb. 28 and March 1, 2, 3. Entries Close Jan. 10.

Breeders' Sale Co., C. W. Hurt, Manager Arrowsmith, Illinois

new importation of draft stallions and mares arrived October 23, 1910, by "lams' own special train" of "8 express cars." They are "business propositions," that "jar the cherries" on a "wide-awake" "horseman's hat." lams' "Peaches and Cream" stallions and mares are "eye-speners." They are "diamonds" sold "at fifty cents on the dollar." They are "winners" and "sons of winners," having won "eighty prizes and medals" at Paris and Brussels and leading European horse shows. lams makes buyers

UP AND TAKE NOTICE

"Ikey Boys," get into lams' "money-saving game." Buy a stallion and mare today—save \$300.00. Iams "tickles" buyers with "Rippers" at "Let Live Prices." Owing to bad crops, panic—Iams' cash, his 29 years' successful business. He bought and sells better horses cheaper than ever. Mamma, Iams is a "hot advertiser," but, "he has the goods" and sells horses at his barns only. Buyers get the "middlemen's profits" at Iams'. Iams has

60---PERCHERONS AND BELGIANS---160



two to six years old, weighing 1,700 to 2,500 pounds; 90 per cent blacks, 50 per 2,500 pounds; 90 per cent blacks, 50 percent ton stallions. All registered and branded. He sells "toppers" at \$1,000 and \$1,400 (few higher), mares \$700 to \$1,000, so good they need not be "peddled" or put on the "auction block" to be sold. Iams "selling clothes" fit all buyers. No man with money or bankshle notes gets away from Iams. He able notes gets away from lams. He buys, owns and sells more stallions than any man in the United States; saves thousands of dollars to stallion buyers. He is not in the stallion trust. lams places \$1,500 insurance.

\$1000 SAVED AT \$1000

Ikey, what "a graft" these "stallion salesmen" are working on the farmer, selling fourth-rate stallions at \$2,000 and \$5,000! Mr. Buyer, see Iams' stallions yourself. Take no stallion salesman's word. "lams has the goods stallions yourself. Take no stallion salesman's word. "lams has the goods you read about." His establishment is worth going 2,000 miles to see. Iams' competitors holler." He is knocking "high prices" out of the Xmas tree. Iams saws wood, "butts in," sells more stallions each year. He makes every statement good. Big Bill, buy a stallion of lams. His \$1,200 stallions are much better than our neighbors paid those Ohio men \$4,000 for. Then I can wear diamonds. Iams speaks the languages, buys direct from breeders, pays no buyers, salesmen or interpreters; has no two to ten men as partners to wear diamonds. lams speaks the languages, buys direct from breeders, pays no buyers, salesmen or interpreters; has no two to ten men as partners to share profits with. lams guarantees to sell you a better stallion at \$1,000 to \$1,500 than are sold to stock companies at \$2,500 to \$5,000 by slick salesmen, or pay you \$500 for your trouble, you the judge. Iams' pays horses' freight and buyers' fare; gives 60 per cent oreeding 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.

NEBRASKA PAUL, ST.



IMPORTERS AND BREEDERS.

Percherons, Shires and Belgians

75-HEAD MARES AND STALLIONS-75

We won more prizes at Kansas State Fair than any one exhibitor, which proves the quality of our horses. Just one word with you, Mr. Buyer: If you will come and inspect our horses and if you don't say that we have as good a bunch as you ever inspected, and our prices the lowest, considering quality, we will be glad to pay your expenses. Write or come and see us before buying elsewhere, for we will save you money.

L. R. WILEY & SONS ELMDALE, CHASE CO., KANSAS.

HOMEWOOD STOCK FARM

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 Abliene. 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. We have a car load shipped direct from the International, Write us your wants, or better still, come and see us. Abilene is on the Rock Island, Santa Fe and U. P. railroads.

Barns 2 Blocks

Barns 2 Blocks North U. P. Depot. S. METZ & SONS ABILENE, KANSAS



ROBISON'S **PERCHERONS**

For sale now, 100 head of stallions, mares and colts, of all ages. All stock in Percheron Society of America.

ADDRESS BOX C.

J. C. ROBISON, Towarda, Kan.