# KANSAS FARMER

FOR THE IMPROVEMENT

OF THE FARM AND HOME

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# Veterinary

There are in Kansas a total of 6,138,890 head of domestic animals on 6,138,890 head of domestic animals on the farm. To care for these animals there are in this state only 270 grad-uate veterinarians. This means that each of these veterinarians, if the work were divided equally between them, would have the care of the health of 22,733 farm animals.

The live stock industry of Kansas is one of the greatest in the state. The present value of these animals on the farm is \$225,147,080. The product each year is a large one, both in the fiesh, milk and eggs which they yield, and in the manure which they leave for the preservation of the soil. Farm animals are becoming more valuable each year and the farmer has a big financial interest in their health and welfare. Under present conditions he may have access to the services of a skilled veterinarian in case of emergency though he is more frequently compelled to depend upon his own knowledge and experience.

The important facts that every farmer needs veterinary information and that some farmers desire to become practicing veterinarians, were of such moment that the Agricultural of such moment that the Agricultural College at Manhattan began, years ago, to prepare to supply this demand. The Legislature granted an appropriation with which a splendid building has been erected and equipped. A veterinary college has been developed here that is second to none in the country. It is officered by men of exceptional ability and, while the department under its present the department under its present management is a new one, and investigations of the kind necessary here require time, the results have more than justified the expenditure already made and the employment of the experts who are now working for our largest farm industry.

Recently, Kansas Farmer gave a description of the methods pursued at the veterinary department of the State Agricultural College in the vaccination of hogs with anti-hog cholera serum. This information created so much interest and aroused the people of the state to the tremendous value of the work being done to such an extent that it became necessary to equip a serum laboratory for the manufac-ture and distribution of this, the first real preventive of this dreaded swine disease. Dr. F. S. Schoenleber is at the head of this great department and is also state veterinarian. He announces that during the year 1910 their facilities will allow them to produce something over 100,000 doses of anti-hog cholera serum for distribution throughout the state. As no legislative appropriation has been made to cover this work it is necessary to charge the cost price per dose, which is something like 1½ cents per cubic centimeter, or about 30 cents per head for a 100 pound shoat. The exact cost is not definitely determined as yet but the state of Michigan charges 40 cents per dose, Iowa charges 50 cents and Minnesota 40 cents.

This serum is prepared by injecting the virulent blood from a hog which is about to die with the cholera into one that has been made immune either by already having had the cholera in a natural way or by having been given it by injection. To produce enough virulent blood to hyperimmunize a 200 pound hog requires three or four pigs weighing about 40

# The Greatest Veterinary School in the Greatest Agricultural College.

pounds each. These must be given a severe form of the disease and must be ready to kill at or near a certain time as the blood nust be used for this work within a few hours after it is drawn from the hog. When the diseased hog is ready he is covered with a sterilized cloth to prevent any dirt or germs from dropping into the vessel which collects the blood as it is drawn from the animal. The tail is shaved closely and thoroughly stershaved closely and thoroughly sterilized with a strong anticeptic before the hog is bled. When drawn from the animal the blood is immediately taken to the laboratory and defibri-nated, leaving only the fluid part of the blood which is called the serum. To this serum is added a small amount of weak solution of carbolic acid, as a preservative.

Each hog is usually bled three times at intervals of seven days. If in condition he is then rehyperimmunized and again bled two or three times. In either case the hog is killed at the last bleeding and all of his

blood taken. The serum from all of these different collections of blood is mixed together in order to secure the right potency as the first drawings are generally too strong and the last ones too weak. Every particle of the serum is thoroughly tested before it is serum as thoroughly tested before it is allowed to leave the laboratory. For this purpose several more pigs are used. Therefore, in order to secure 3,000 cubic centimeters of serum one 200 pound hog and 5 smaller pigs are necessary. When secured, this amount will vaccinate about 150 hogs so that for every six pigs sacrificed so that for every six pigs sacrificed the lives of 150 are saved. This means one pig for every 25 saved, which is about 4 per cent, and this serves to explain the cost of the

Science at Agricultural College

Dr. Schoenleber says that he is now prepared to send out about 1,200 doses per week but that these can only be sent to trained veterinarians. During a recent visit to the Doctor's laborachecks, amounting to \$350, which had

been sent by one man to the Doctor, with instructions to hold them until

with instructions to hold them until he could send their value in serum.

A new bulletin has just been issued by Dr. Schoenleber which fully describes the work of his department in the prevention of hog cholera. This is bulletin No. 163, and may be had by addressing the Experiment Station at Manhattan Manhattan.

Other important work that is now being conducted at the veterinary debeing conducted at the veterinary de-partment of the College includes a new method of vaccination for poll evil and fistula. Dr. Schoenleber is deserving of an immense amount of credit for his discovery of the means of combatting these diseases which are both manifestations of the same affliction. Cases which do not yield to ordinary treatment are generally cured by what he calls autogenic vac-cination which is similar, in a way, to cination which is similar, in a way, to human vaccination against small pox. The name comes from the method of preparation. A culture is made from the pus secured from the diseased animal. It is then heated and injected into the same animal. This method is used on all cases having suppurating diseases, including quittor, and seems to kill the germs on which the disease thrives.

Contagious abortion is receiving a great deal of attention at the hands of the experts of this department, though most of the work is done through the carbolic acid treatment. It seems that when once affected it does not generally pay to keep an animal as a breeder as even those which are cured breeder as even those which are cured of the disease will refuse to breed or else will fail to give the usual milk flow. Contagious abortion has the aspect of a constitutional disease and the treatment practiced here seems to be the best known although local treatment does not always win.

treatment does not always win.

The corn stalk disease, or cerebritis, is also under investigation. The doctors in charge have found that they can produce blind staggers at will by doctors in charge have found that they can produce blind staggers at will by feeding the germs which they have discovered. The old theory of poisoning by nitrate of potash has been abandoned, and the entire force is at work on the cultivation and power of this germ. Results are very promising in this field of investigation.

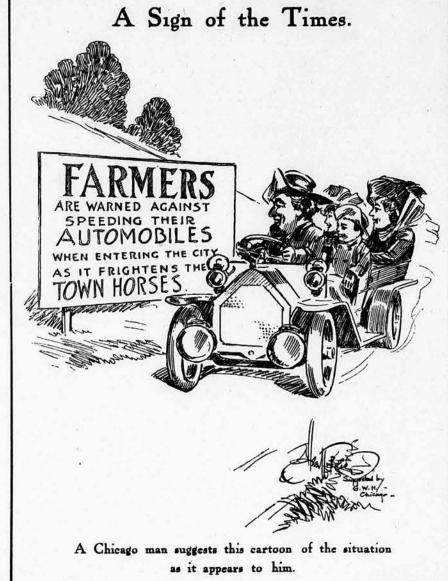
Tuberculosis among farm animals is Tuberculosis among farm animals is being looked after carefully and the diseased animals of the state are being weeded out as rapidly as possible by means of the tuberculin test.

Under the new stallion law, Dr. Schoenleber and his assistants are husy examining the breeding stalling.

busy examining the breeding stallions of the state for soundness. In his work he has seven expert assistants and 60 students who are taking the veterinary medical course of three years for the degree of doctor of veterinary science.

In giving the facts stated above no mention is made of the regular classroom work which is very heavy. der present plans the veterinary science course will be lengthened to four years and Kansas will then have the honor of being able to offer the hest course in this science that is offered by any college in the United States. In addition to the students who study in this department to qualify as veterinarians, all the students in the animal husbandry and dairy departments are given one term in anatomy, with dissecting and laboratory work. The new course will also pre-

(Continued on Page 29,)



# **Prof. Holden Sounds Warning To Farmers**

Corn growers are facing a crisis this year on account of the exceptionally severe and early frosts which impaired the seed corn.

If this frost-bitten seed is planted the yield will fall next year far below what it was last season.

If I could give but one order that would be carried out by every corn grower in the corn belt it would be, that every farmer make a thorough germination test of the seed corn intended for planting.

# **Chappel Says Frost Injured Seed Corn**

HEAD OF IOWA CROP AND WEATHER SERVICE TELLS FACTS

Fifty per cent of the corn was hurt by frosts. This is the worst condition farmers in Iowa have been menaced with in a long period of years. The greatest danger is that farmers will persist in picking out fine looking ears that appear all right.

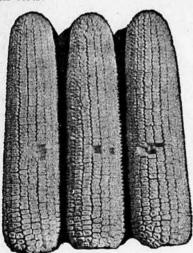
This corn is all right for feeding and other commercial purposes, but a farmer might as well plant a lot of lead bullets as frost-bitten corn.

The only sure way to insure success with next year's stand is to test every ear before using it for seed.

### **Important Test Made** At Ames College

The matter of planting seed corn that looks good will cost farmers who follow this method thousands of dollars next season. In recent tests made a short time ago, three ears were selected that looked as near alike as possible. In making a germination test only one ear proved good quality, the other two failed to show any signs of life whatever.

This proves positively that every ear of seed corn this year should be subjected to the most rigid germination tests.



#### Kansas Farmer Warns Farmers that Poor Seed Is Expensive

High quality in seed commands a corresponding price and it should. Cheap seed always means inferior powers of germination and a mixture of weed seeds and dirt. A recent test showed that clover seed which cost \$5.20 per bushel contained 25.78 per per cent of weed seed and 26.16 per cent of dirt, sticks and gravel. There was only 48.06 per cent of clover seed but of this cnly 18.26 per cent germinated. This means that the farmer who bought this cheap seed actually paid at the rate of nearly \$29 per bushel for good seed. Another case where the seed cost \$15 per bushel showed only .09 per cent of weed seed and 1.08 per cent of dirt, sticks and gravel. In this sample there was 98.83 per cent of clover seed, 95.86 per cent of which germinated. The man who bought the \$15 seed only paid bout one-half as much as did the man bought the \$5.20 seed.

# Corn Crop Failure!

That's What the Greatest Corn **Experts Predict the Coming Season** 

# for the Farmer Who Does Not Test His Seed Corn Before Planting

This prediction is not exaggerated. You, your neighbor, in fact every corn grower in the corn belt is facing a crisis this year and will be compelled to solve one of the most important problems of a life time.

It's a problem that means much to you, either a good healthy corn crop next year, or corn crop failure, great financial loss, wasted time and labor. The outcome all depends upon the matter of testing and selecting your seed corn.

Prof Holden says: "Early frost damaged seed corn and is poorer in quality than any he has seen in the seven years that he has been in Iowa."

Dr. Chappel. of the Iowa Weather and Crop Service, says: "Fifty per cent of the seed corn this year will not grow."

Other corn experts say the same. You know it to be true. What are you going to do about it? Will you wait until planting time and then trust to luck on getting good seed corn, or will you take the safe, sure road to success by testing your seed corn now? It's time to decide.

# Holden's Ideal Seed Corn Tester Is the Simplest, Safest Way to Test Your Seed Corn and Prevent Crop Failure

No. 4, 21/2-Bushel Capacity, \$5.00

You may be the best judge of seed corn in the world; you may be able to pick a perfect ear from among a thousand; but when it comes to picking out an ear possessing the right germinating qualities, the greatest experts in the world will

The simplest, quickest and surest way to do this important work is with Holden's Ideal Seed Corn Tester. It insures the right quality seed and means from 15 to 30 bushels more corn to every acre. That's worth while.

Figure it out yourself. Take the average ear of corn and it contains about 1,000 kernels. Each kernel planted should produce a stalk, each stalk an ear. A dead ear planted means the loss of 1,000 ears, or 12½ bushels. Just think what that

Can you still question the importance of testing seed corn? Will you continue planting and raising corn in a haphazard way? Will you continue to be satisfied with a small crop when by a few hours' work and a few dollars invested in Holden's Ideal Seed Corn Tester you can make your corn crop certain and insure the greatest possible return for your time and labor. Holden's Ideal Tester is the greatest invention of its kind

in the world. It has been tried and tested in every manner, shape, and form. The results have proven that it is the simplest, quickest and surest way to determine the germinating qualities of seed corn.

Hundreds already in use. Every farmer who has one says it's great. Those who have seen it work won't be without one. You need one and after trying you would not part with it for ten times its cost if you could not get another.

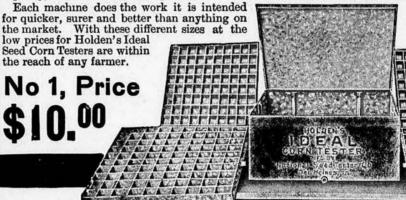
# Holden's Ideal Tester Made in Four Sizes

No. 1, of which picture is shown, is a five-bushel tester; tests 400 ears at at one time and is just what the ordinary corn grower needs.

No 2 is a five-bushel cabinet tester, especially made for the man who wants to do his testing in barn or seed

No 3 is ten-bushel cabinet tester for the man who plants a large corn crop.

No 4, picture herewith, 2½-bushel capacity, is for the small corn grower.



Try Holden's Ideal **Corn Tester** 

That's a fair and square offer. That's the easiest way to convince you that Holden's Ideal Tester is what we claim. That' the quickest way to overcome any doubt that may exist in your mind. Write today for catalogue. Select the machine you want. Send us your order. Test a batch. If not satisfactory return it at our ex-

pense and we will return evero cent of your money. That's a plain business proposition. You take no chance, you risk nothing, so don't delay. Time travels fast. Planting will be here before you know.

**Get Ready Now** 

Mail it Today. Cut Out Coupon. Trial Offer Proposition.

The catalogue tells all about it; shows the different sizes of Holden's Ideal Tester that we manufacture. The FREE TRIAL offer is the best ever made.

If you have already seen these Testers at the corn shows, and like many other farmers, don't want to bother about catalog, but want a machine immediately, send remittance of \$5.00 for No. 4 machine, or \$10.00 for No. 1, and we'll ship either of the two immediately on receipt of remittance and order. You'll save time doing this and take no risk, because we are a reliable and responsible concern and guarantee to refund your money if the Tester you receive is not satisfactory.

If you want references, write to Iowa Trust and Savings Bank, Wallaces' Farmer, Homestead, Successful Farming. Register and Farmer, or any other business bouse in Des Moines.

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Hallord Seed Long to the light to the light

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# America's Greatest Indigenous Fowl JOHN BARRETT

Director Bureau of American Republics

The turkey is the one truly American bird and Benjamin Franklin wished to select it as the national emblem for the United States. The farfamed eagle represents its species as simply a first cousin in the Western Hemisphere, but the aguila family has occupied the whole earth from time immemorial. The eagle was indicative of the advances of the Roman Empire. It was known in China for ages. Today it graces the standards of Russia, of Germany, and of several other great world powers. It is seen in the Far East as well as in the United States. The turkey, however, is indigenous to America. It was a favorite fowl among the abor-iginal Indian inhabitants of the new continent. It grew and thrived over all the immense areas adapted to maize or Indian corn; like corn, the turkey was discovered by the earliest European adventurers and settlers and by them proudly sent home as trophies of the chase. Since then the turkey, following Indian corn which it so dearly loves as food, has been carried to all the corners of the earth, to embellish the farm and to add another factor to the many contributed for man's enjoyment by America.

In early colonial days turkeys were numerous in Massachusetts, coming about the houses of the settlers in large flocks. It was well known throughout New England, Maryland, Virginia, the Carolinas, and Florida, and in the last-named states it is still found as a native wild fowl. Otherwise there is great danger of total extermination which has elsewhere been the result of indiscriminate slaughter east of the Hudson River.

The appellation "turkey" has been abused by mistaken etymology. A fanciful explanation would derive it from the (East) Indian toka, which takes the form in Hebrew of tukki, the peacock. As the Jews in south Europe were acquainted with this re-lated fowl, it is assumed that they naturally applied the word to the turkey when it was introduced into Spain, which thereafter bore the name wherever it made its home. Such a roundabout origin is unnecessary, however. The bird was called turkey because it was supposed to come from Turkey. In that country it was called an Egyptian hen; elsewhere it sometimes had another geographic title. This was simply in accordance with the habit so very general in the six-teenth century. New and strange things were continually being pre-sented to an ignorant public; knowledges spread slowly, whereas super-stition was deep and hearsay taken at its asserted value. The markets of north Europe received this fowl as coming from south Europe, directly or indirectly from Turkey. In France on the other hand, it was called dindon, or, in the feminine, dinde, as if it were the fowl d'Inde—from India. English and German have so many words of analogous derivation that there should be no further dispute about the meaning in this case.

The wild turkey of America is without doubt the progenitor of all the relatives of this fowl the world over. Whether there was a variety, the original of the present domestic turkey, indigenous to the West India Islands, will probably never be satisfactorily settled. It is a supposition favored by many scientists. But it is a generally accepted view, irrespective of this detail, that all turkeys have de-scended in some way or other from the three forms known today as the North American, the Mexican, and the Honduras (Ocellated) varieties. There is a so-called turkey found in the forest regions of South America, especially Peru, but this bird is in reality not a turkey at all, although resembling it in some ways, so that the hunter after wild game is satisfied. For the ornithologist, however, it belongs to another family. Scientists are well agreed, therefore, that the turkey resides in the southern continent only as an immigrant, and that his native home, probably not far from that of primitive maize or Indian corn, must be sought somewhere north of the Isthmus of Panama.

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The Mexican turkey, wild throughout that Republic, is called Meleagris mexicana; it is short in shank, the feathers of its body are metallic black shaded only slightly with bronze, while all its feathers are tipped with white. This appears to be the species

first taken to Spain and other European countries. It is thought that the white markings of its plumage appear in the variety of domestic turkey known as the Narragansett.

known as the Narragansett.
The Honduras turkey is called scientifically Meleagris ocellata, and is today scattered well over most of Central America. The bird is ex-tremely wild, and has a freer flight than its cousins of the North. It is the most beautiful in coloring of all the family. The head and neck are naked, the caruncles on them differing from those of others resident in less tropical regions, and no breast tuft is present. The ground color of the plumage is a beautiful bronze-green, banded with gold-bronze, blue, and red, with some bands of brilliant This bird can not be bred successfully nor domer-icated away trom its native heath, and even there it is more a wild bird in captivity than a sober inhabitant of the farm. It gets the Latinized terminization of its name because of the large and sharply defined spots characteristic of the longer feathers, giving them a fanci-ful resemblance to eyes. The same marking is more strikingly illustrated on the tail of the peacock

The North American turkey, Meleagris americana, is the original species of the eastern United States. Its

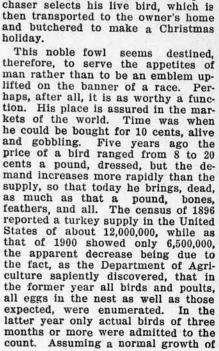
Black and the White are the smallest. The White seems, however, to have become a popular variety of late years, and has therefore increased in size until it now occupies the third place among many breeders.

WILD TURKEY

The turkey has not been long under domestication, and consequently suffers from some unfortunate habits incident to captivity. Even as a home bird it loves freedom, and for healthy development demands a wide area over which to wander in search of food. It suffers under confinement, and should not be compelled to live within the narrow boundary of a suburban farm. It must have space, with fields in which to wander and trees in which to roost. It will not seek the shelter of a house, such as is necessary for the domestic hen, except in the severest weather, but sits aloft on the branches, free and independent like its American progenitors. Neither can the turkey be inbred, but must always have fresh blood from a different stock if the offspring is to develop the hignest type of fowl, both in the sense of appearance and of market value. In reality, the close relationship of the modern turkey with its aboriginal ancestry is proven by the fact that the domestic bird has been known to mate with its wild and migrating cousin, to the decided im-

hand of man from one country an another and encouraged to propagate in an alien land, because he added one more delicacy to tickle the human appetite. Differing from fauna or flora that spread to the ends of the earth by the forces of nature, turkeys, like maize, would never have departed from their aboriginal habitat had it not been for human energy and desire. It is a slow bird, deliberate both in beginning flight and in the choice of its alighting. Interesting tales are told of the early days of turkey shooting along the banks of the Mississippi. How great flocks of the turkey used to gether for house the turkey used to gather for hours before the passage in the trees on the bank, scanning the opposite shore and gobbling about it to themselves as if they were to cross an unknown ocean. Finally they started, but lurched ahead, with the heaviness of a leaky galleon, and plunged exhausted into the swampy undergrowth at the river's edge. Here the hunter or perhaps some beast of prey would be lurking in concealment for the poor turkeys, who proved easy victims to their wily foe. Such sluggish migrants could never cross the Gulf of Mexico or the wider Atlantic Ocean by themselves. No; they were carried to Europe by the earliest discoverers as trophies from the New World.

Cortes mentions the turkey in one of his famous letters about 1518. He carried specimens of the bird to Spain in 1520, where they immediately became popular and were bred as a tri-umphant addition to the larder. It then became known as pavos, his cousin, the more pretentious peacock, being distinguished by the term pavo real—the fowl of kings. The turkey was a long time reaching France, for the first bird eaten there, mentioned in history at any rate, was served at the wedding of Charles IX and Eliza-beth of Austria, June 27, 1570. This portion of the feast was supplied from Boston, Massachusetts, at that time an unknown settlement somewhere in the American wilderness. It seems to be admitted that the bird was introduced into England in 1524, where he soon became domesticated and assumed such local names as the Black Norfolk and Large Cambridge. It is an interesting fact that these descendants of the parent stock were carried back again across the Atlantic to New England, where, crossed with the original turkey already there, they began the breed that has spread from one end of the country to the other. In Europe they have become a permanent institution. Germany and France recognize the fowl as an indispensible factor in any holiday feast; in Spain, especially during Chirstmas time, the markets are alive with the Castillian vociferations of the bargainers and unavailing protests of the victims about to suffer from the results. In Madrid some of the principal streets are crowded with troops of these birds driven in from the country farms, while the Plaza Mayor, once the scene of the autos de fe of the inquisition, now is the center of a more innocent function, for in this square almost all the turkeys of the capital are offered for sale. The pur-chaser selects his live bird, which is holiday.



(Continued on Page 21.)



"The Mule Patch,' owned by A. J. Pottorf of the class of 1899 and Mrs. Lucy Cottrell Pottorf, class of 1898 of the Kansas State Agricultural College. Mr. and Mrs. Pottorf live on their farm near Riley, Kan., and are the owners of an automobile as well as the excellent motive power shown in the picture. The great Missouri mule has nothing "on" the Kansas variety.

colors are black, beautifully shaded with a rich bronze, the breast plumage being dark bronze, illuminated with a lustrous finish of coppery gold. All this emblazons the plumage with a distinctive brightness, and in the ray of the sun the burnished appearance comes out with striking briliancy. The full-grown, healthy bird is a beautiful picture of bronze, black, copper, and gold.

Other varieties known in the barnyard, and even recognized among dealers as having distinctive markings, are in reality only highly developed fowls with preserved peculiarturkey h The knot resembling the top-knot on the Polish family among chickens. In the latter family, however, the skull has an unusual formation natural this breed, but which with turkeys and ducks is an unnatural, that is, an anomalous growth. The white turkey is also only a developed breed. No benefit, consequently, can be derived from unnecessary subdivisions of the three great originals. As the growing of turkeys improved the stock, so the hardy American bird of the aborigines has become the prize fowl of today.

In the United States six standard varieties are recognized and grown. These are called the Bronze, Narragansett, Buff, Slate, White, and Black the chelef differences are in size and color of plumage. The Bronze and Narragansett are the largest, the Buff and Slate are the medium, and the

provement of its kind, as well as the profit of the farmer.

The young of the turkey are called 'poults," and they are as tender as bantam chicks. They must be nursed with care far out of proportion to the freedom they require when they be-gin to look after themselves. Probably to bring to maturity young turkeys in the wild state demanded even greater care, but the female is prolific, and, moreover, if she is deprived of her season's first brood, will fre-quently begin bravely again to lay the eggs and sit the second time for another family. Besides the enemy in to hostile are exposed parasites and infectious microbes in the soil, and should be provided, therefore, with such clean and natural ground as they would find in nat-ural conditions. They are at first helpless, almost senseless, little creatures, unable to feed themselves. often running around with open mouths as if they had no instinct for scratching for their food from the If the mother does earth beneath. not attend to them, it is sometimes necessary to stuff the food down their little throats, until they have acquired wisdom by practical experience. This is all a matter of ornithological technique, however, and can be found well discussed in farmers' bulletins of many agricultural departments and societies.

How did the turkey make his way around the world? He was transferred; that is to say, carried by the



You are careful to see that your dog does not roam around at night. How about your boy? 1.481

Out in Kansas they have coined a "aw word, "hyper-immune," This pans more than "immune." You ouldn't get the germ of an influence or a disease into such a character. Question—What seedsman do you consider "hyper-immune?"—Rural New

Moral: Buy your seeds of reliable seedsmen and pay them for quality.

About March 1 Prof. R. J. Kinzer will go to Brandon, Canada, to act as a judge of live stock at a live stock exposition and fair. This is not the irst time Professor Kinzer has acted n this capacity and it is indeed an onor to the College and to Professor Cinzer to be selected to fill this important place in another country.

It is the experience of all the ages that the live stock industry is the most prominent factor in maintaining the fertility of the soil and any emo-tional or political sentiment which in-jures this industry strikes at the very foundation of the country's wealth. The people who started the senseless boy-cott against eating meat were per-haps honest in their efforts to correct a wrong but they hit the other fellow.

Out in central Kansas there seems o be a very general movement towards the organization of automobile lubs. During the past two months he roads have been so well nigh unassable that the owners of automoiles have been unable to use them and this concerted movement has for ts object the betterment of the roads. Membership is not confined to the owns and cities however, as some of he clubs have a majority of farmers mong their members. The mud tax s a heavy one anywhere and united effort only will prevent it.

At a recent farm sale held in Atchson county a span of mules brought while a dozen Brown Leghorn hens sold for \$10 or more than 20 cents per pound. The total of the sale was near \$3,000 which was all paid for in cash except two small notes. While the price paid for the chickens would not be an unseemly one for pure breeding stock that paid for the mules was pretty fair. pays to raise mules and the Kansas variety is just as good as that from Missouri and this buyer did not have to be shown.

It 's reported that an Illinois manufacturing firm recently bought 26 car loads of broom corn brush in Wichita and were negotiating for another like cargo at approximately 9 cents per pound. This price is somewhat below the maximum of \$200 per ton recently quoted for Kansas broomcorn yet it indicates a tidy investment for the raw materials of a very common and necessary article. Allowing 10 tons to the car the total purchase would foot up to \$94,000 and the housewives of the country will find another added item of expense. Here is where the vacuum cleaner man gets in his work.

As showing the careful methods pursued by the KANSAS FARMER in protecting its patrons it may be mentioned that last week a letter was re-ceived from what purported to be a wholesale house in Chicago offering a nice advertising order. As the parties were unknown to the KANSAS FARMER held up ent the order was pending investigation. Inquiry developed the fact that the business was of doubtful quality and it was rejected. Now comes word that the proprietor has been arrested for using the mails to defraud. The rejection of such advertising orders is still necessary, at times, though the reputation of the KANSAS FARMER is such that the frauds and grafters generally give it a wide berth.

J. Adam Bede, the witty ex-congressman from Minnesota, is said to have lacked the power and influence to which he was really entitled because of his reputation as a wit. When he began speaking on any subject his auditors thought he was joking. However, he managed to say some good things which have been accepted serieusy. Among them may be quoted the statement that: "The cost of liv-

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ADVERTISING RATES. — 25 cents per agate line, 14 lines to the inch. Announcements of reputable advertisers respectful-solicited. No medical nor questionably worded advertising accepted. Forms close Monday.

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

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

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

KANSAS FARMER COMPANY,

ing is high because we make it so. The trouble with our farmers is that they don't treat their land right. They plant wheat and plant wheat, then turn around and stick in a little more wheat until the ground is wheat They do not give their land a chance to produce all that it would produce. They need the good offices of a society for the suppression of cruetly to the soil."

JE 36

Perhaps nothing of direct interest to the farmer has grown so rapidly in popular favor in recent years as has Portland cement. This is a wonderful material in that it lends itself to such a wide diversity of uses. Being absolutely fire- and waterproof, cheap, capable of being molded into any desired form and practically in-destructible it is truly the new rock of ages. Some knowledge and experience is necessary, how ver, or good results do not follow. Good materials are also necessary and with these any handy man can soon learn its various uses either as a cement, a plaster, a concrete or a reinforced concrete. In buying cement be sure to get only the best. In sand, use only that which is clean and sharp and in mixing a concrete be sure to follow the directions given by the cement manufac-turer. This latter because cement rocks vary in their composition and the manufacturers' tests and experience are especially valuable to the amateur. Kansas Farmer will be glad to answer questions about cement و و و

A subscriber asks for a definition of humus. Briefly stated, humus is partially decayed vegetable matter, or more accurately, of both animal and vegetable matter. There are certain substances in the soil and others which are drawn from the air and water which contribute to the life of both the plant and animal kingdoms. When a plant or animal has fulfilled its usefulness it dies and decays. This decay, however, is not perfect. If it were, the component parts of the plant or animal body would return to their original elements. Lacking this, they form a loose, dark colored substance which we know as humus and which is a most valuable feature in the soil. A clay soil do s not produce vegetable growth because it lacks humus, although it may possess the necessary minerals. Humus is most readily added to the soil by the application of barnyard manure or by plowing under green crops of some legume such as alfalfa, clover, cow-peas or soy beans. The value of humus in agriculture lies in the fact that it contains the elements of plant life in that form which can be most readily assimilated. Soil with plenty of humus is said to be "rich," while that without it is poor.

MARKET HOGS SOAR AGAIN. Market quotations on Thursday of last week showed the price of hogs in Chicago to be \$9.40 which is the highest price reached since 1870. During the later days of the civil war the price on hogs soared to \$13.25. In 1882 the price reached \$9.35 while back in 1870 it was \$10. Continued light receipts for several

menths at the packing centers and the reported scarcity of hogs in the country have been the causes assigned for the recent rise as well as for the prediction that the \$10 hog may be in sight.

يو يو يو A WAIL FROM MISSOURI.

In almost every town in Missouri a considerable amount of kansas ground alfalfa is being sold to farmers and town people who own a cow or horse, when this feed could well be supplied by growing more red clover, cow-peas, or alfalfa in this state. At the market price for this ground alfalfa an acre of good, average Missouri soil will produce an equivalent of from \$50 to \$75 if planted to any one of the above named crops. Our advice is grow more bushels of corn on fewer acres, grow more alfalfa, clover and cow-peas, and keep the money here to build better schools, better roads and betted homes.—Farmer & Breeder.

36 36 36 EGGS FROM EUROPE. A press dispatch under a New York,

Feb. 15, 1910 date line says:
"For the first time in five years the product of the pauper hen of Europe is being imported into this city in competition with the results of home industry. The eggs are shipped by brokers in Hull, Eng., but are gathered originally from Austria, France and Germany. Up to today the total receipts of the foreign eggs amounted to 900 cases, holding about 960,000

The duty on foreign eggs is five cents a dozen and the shipping charges about four cents a dozen. Dealers say that European markets are flooded and the low prices there enable the shippers to make a good profit on their importations.

All of which shows that the great American public will eat eggs—and that Kansas hens need not fear a loss of occupation through over production.

AGRICULTURAL COLLEGE CORN SPECIAL.

In cooperation with the Rock Island railroad the Extension department of the State Agricultural College will run another of its "Schools on Wheels." This train will start from Topeka on Tuesday, March 1, at 7:15 a. m. and will cover the lines of the Rock Island to the westward during the week. The itinerary will include points between .opeka, Herington and Wellington on Tuesday; Hering ton and Pratt on Wednesday; Pratt

to Bucklin and Herington to Salina on Thursday, Broughton to Phillipsburg on Friday and Norton to Belleville on Saturday. Exact dates at given stations will be furnished by the Rock Island station agents. The general subject for discussion will be corn and the preparation of the seed-bed. Lectures will be delivered at each stopping point by experts from the State Agricultural College.

AGRICULTURAL COLLEGE CORN
AND WHEAT TRAINS.
Superintendent J. H. Miller of the extension department of the Kansas Agricultural College is an indefatigable worker. He has organized more than 300 permanent farmers' insti-tutes in Kansas with a membership of some 14,000 real farmers who are heads of families. These institutes meet regularly and, with the assistance of the extension department, are carrying on the work of agricultural education among the men and women to whom the doors of the college are not opened by reason of their circumstances. Another most potent factor in the success of the extension department is the educational trains which have been run under its conduct in co-operation with the various railroads of Kansas. These have been numerous and valuable and Prof. Miller is now able to announce that his plans are well nigh completed for two more special trains, one of which is to travel in the interest of "corn, the seed and seed-bed." This train will start from Topeka on March 1 and cover the lines of the Rock Island west. Announcements for the other train will be made later.

FARM PHOTOGRAPHS.

Recently the Kansas Farmer received some excellent photographs that were exposed, developed and printed by members of the family. It is possible that, from the standpoint of the expert, they were not perfect but as showing real farm scenes taken by real farm folks they were good and just what is wanted. There is no more fascinating relaxation from the heavy duties of life than having fun with a kodak and certainly the training developed in acquiring the necessary ability to secure such results as these is well worth the effort. The record of daily events on and about the farm or one one's travels which can be made with a camera has a lasting value which will increase as the years go by. Among the writer's most treasured possessions are some neg-atives taken with one of the earliest forms of hand cameras that came to Kansas and some of the best illustrations that appear in the columns of the Kansas Farmer were made from photographs taken by amateurs. Watch these columns. It may be that one of your own photographs will be reproduced there.

ير يو يو PROVISION STOCKS LOW.

Reports from Chicago show that the stocks of cut meats now on hands in the cellars of the packing houses are only about half what they were one year ago and the scarcity of hogs and cattle throughout the country does not promise a better condition in the immediate future. On January 31 there were only 75,000,000 pounds of cut meats on hand in Chicago as compared with 146,000,000 pounds one year ago and 129,000,000 pounds two years ago. Even the meat boycott has not reduced the cost of meat on oof to such an extent as to enable the packers to stock up at profitable prices. While these same packers are accused of having engineered this meat boycott through the trades unions and by other means so that they could reduce the prices paid to farmers for live animals and thus refill their cellars with low cost meats preparatory to shooting the retail price up again to their own profit, the scheme seems not to have worked out. At least it is apparent that there is a real shortage of meat producing animals and that prices are not likely to get much lower at once. Meantime the boycott has hurt nobody but the farmers and feeders.

يو يو يو THE CASH VALUE OF APPEAR-ANCES.

Neatness has a commercial value whether it be found in a stere, the farm home or a man. This fact has been known and appreciated by the patrons of the store and by the man for many years and is daily increasing in value. In the surroundings of the farm home its appreciation is of more recent date, though that, too, is

growing rapidly.

Mere size of the house or its architectural ornamentation is not in point though these may give an added value to the farm. Compared with another house that is surrounded with what are generally known as "improve-ments" the house which boasts of mere size shrinks in value and the farm with it. The writer has in mind a farm on which the house is not large, yet of ample size for the family. It is not architecturally beautiful, yet it is kept painted. The hitching posts are painted and are accom-panied by stone horse blocks from which a neatly paved walk leads to the front and kitchen doors. Stone walks lead to the well, the outbuildings and to the barn yard, which is paved throughout. An inexpensive too! shed and a small workshop stand on one side of the barn yard and the farmer or his wife can make any necessary trip between buildings without wading in mud. In front of the house is a real blue-grass lawn that is cut with a lawn mower. Ornamental shrubs, trees and flowers are placed at proper intervals and the whole place looks like some one lived there and loved it as a home.

But, it may be urged, these things are expensive and hard to get. They are not. They are investments and, while they may be secured only gradually, they pay big dividends.

The neater and more attractive you make your home the more attractive you make it to a possible buyer and hence the more valuable you make it.

THE FOOD BOYCOTT.

The price of commodities does now,

and always will, depend, primarily, upon demand and supply. Artificial Artificial conditions and unlawful combination may, for a time, and in a restricted way, increase or depress prices, but no such combination can create a demand which does not exist. If there is, for any excuse, a slight demand for any article, or if that article is greatly in excess of demand, the price will not be high. On the other hand, if the supply is insufficient, the price

will be correspondingly high.

The demand of the consumer who is also generally a producer, depends, in no small degree, on his wages, or the profits of his business. There is in this country no considerable non-producing class, all are engaged in protucing and in consuming. Their in-erests are, therefore, common. High wages and large profits tend for high prices and liberal consumption. Liberal consumption increases the demand and diminishes the supply. An era of low prices is always an era of want and financial distress. When things are cheap, labor is cheap, and in poor demand. Good prices, fairly distrib-uted, are best for all. It is better for all that the farmer's corn and wheat, his beef and pork, sell at remunera-tive prices. Cheap bread and meat means that both will, probably, be hard to get, because when such things are cheap other things, including labor are cheap and in slack demand. When corn was selling for ten cents a bushel in Kansas, the poor in the cities were being fed at public soup-houses, and the country was overrun with an army of the unemployed, begging for bread. It follows that an attempt to change inevitable conditions by a foolish boycott of farm products, because they

# Hair Switches and Braids

So few women have enough of their own hair to dress it according to the new styles (with the long braid around the crown) that nearly all buy switches and braids. These need not be expensive if you send to us for them—but they will be of the best quality at the prices. Send a sample of your hair and we will write prices of what we have to match it.

KANSAS MAIL ORDER SERVICE. The Mills D. G. Co., Topaka, Kan.

are not cheap, will fail, and that its success would injure its promoters. While present prosperous conditions continue prices will be good, boycott or no boycott.

CHAMPION KING ELLSWORTH IS
STILL TEACHING.
The wonderful Angus steer King
Ellsworth, which was fitted by the
animal husbandry department of the Kansas Agricultural College and exhibited by Professor R. J. Kinzer at the International in December, has been admitted by many observers and writers to be the most perfect beef animal in existence today. After the International Show, when King hasworth was loaded with the highest honor that it was possible for any steer to obtain and he was wearing his grand championship ribbon he was sold to an eastern packer who planned to make Christmas beef for the faculty and students of Yale University out of him. The Industrialist states that he attracted so much admiration that the butcher was prevented from slaughtering him because he would not be able to sell the meat. King Ellsworth was therefore turned over to another party, who is now taking him from town to town in a special car to show New England people what western ozone, Kansas alfalfa and an agricultral college education can do for a steer.

His owner has lately written to Professor Kinzer for the steer menu card to find out what to feed him to keep up his rotundity and the gloss of his black fur. The letter of inquiry inti-mates that King Ellsworth is attracting more attention in the cities and villages of that region than Barnum's big elephant 'Jumbo' did some years ago. Wherever he goes the meat boycott melts like snow down in Florida. Professor Kinzer, who picked him up two years ago, and wrote his biography in the last Industrialist, is prouder than ever of the big disciple and is making preparations to send a few bales of Kansas alfalfa to New Haven to keep up Master Ellsworth's digestion and avoirdupois and to prevent him from getting homesick for the sunny stock pavilion of the Kansas State Agricultral College.

A NEW COURSE OF STUDY AT THE AGRICULTURAL COLLEGE.

The entire working force of the faculty of the State Agricultural College, from President Waters down to the youngest assistant, is busy at work on a revision of the course of study of that great institution. Exact information is not yet available, nor is it needed. One fact, however, stands out prominently and this is of tremenduous import to the farmers and tax payers of the state. The course is being planned so as to make the agricultural and industrial features, which have been so prominent in the history of this institution, immediately available to the students who enters college, whether he come from the city high school or directly from the farm. Heretofore, the College has been subject to severe criti-ism by those who knew the real facts because of its lack of provision for instruction along these lines to those who enter the subfreshman classes.

In the late ninties there was a department provided especially for the instruction of young men and young women who had passed their teens but who had been deprived of the advantages of school training in their earlier years. This was called a preparatory department and was later merged into the sub-freshman classes. Naturally the lack of advancement of such students prevented them from taking hold of any technical study and they were compelled to spend from one to two years on the so-called common branches before they could have any instruction that related to agriculture or the mechanic arts.

Now the plan is to change all that and develop this institution along the lines on which it was founded. Plans are being perfected whereby every student, whether male or female, whether proficient or lacking in his early training, shall have immediate access to those practical studies which gave this institution its name and reputation and for which its exists. President H. J. Waters and his able co-workers are to be congratulated upon the readiness and energy with which they have tackled this serious problem and the people of the state are to be congratulated upon this contemplated change which will mark a new era in the history of this mag-

# THE HOT SPRINGS

OF ARKANSAS

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

# NATURE'S GREATEST SANITARIUM

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

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The marvelous cures cannot be emigrated.

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Manhattan Grange, in addition to holding a special meeting with a splendid program this month will have an old settlers day on March 16. This grange is one of the oldest and most active in the state and its programs are always up-to-date. The one provided for old settlers day is especially attractive.

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#### L M. PENWELL

Funeral Director and Licensed Embalmer, SIT QUINEY ST. TOPPHAL KANE



ewer Scrub Stallions Under Wiscon-

sin Laws.
A striking decrease in the number A striking decrease in the number of stallions of inferior breeding during the past four years, with the retirement from service of over 760 grade stallions, is noted in a new buletin on Wisconsin horse breeding statistics with a list of licensed stallions for 1909 by Dr. A. S. Alexander lions for 1909, by Dr. A. S. Alexander of the department of horse breeding of the University of Wisconsin Colege of Agriculture.

While 65 per cent of the licenses were for grades in 1906-1907, in 1908-1909 only 58 per cent were for grades, he bulletin shows. Of the total of 1,603 grades stallions licensed, 767 ave been retired since 1906. The de-rease in grade stallions has been esecially noticeable in those counties where the increase in numbers of pure red stallions has been marked.

The number of pure bred stallions as increased in 37 counties, while rade stallions have decreased in 40 ounties. There has also been a noiceable improvement in the soundless of stallions. A large number of ndesirable animals have been retired nd their places filled by sound ones. The character and number of lienses issued during the past year lave been as follows: 215 pure bred, grade and 22 mongrel and scrub tallions and jacks,, and 1 cross bred nd 1 non-standard bred stallion. lince the law was first enacted lienses have been issued to a total of ,726 pure bred stallions and 2,603 grades.

The mongrel and scrub license was provided for in an amendment to the aw approved June 9, 1909, which provides a special license for stallions paving neither sire nor dam of pure oreeding, designating them as "mon-grel or scrub." Stallions of like breed-ing were previously licensed as grades, and these licenses can only be renewed with mongrel or scrub censes, unless proof is presented that one parent was of pure blood. Twentytwo of the latter class have been is-

Progress in stallion legislation has been particularly rapid during the past two years. Following the lead of Wisconsin, Minnesota, Iowa, Pennsylvania, New Jersey and Utah passed laws which have been in operation for several seasons. During the last year stallion laws more or less resembling that of Wisconsin have been enacted by the following states: Colorado, Idaho, Illinois, Kansas, Montana, Ne-braska, North Dakota, Oregon, South Dakota and Washington.

If the grape vines are not yet pruned, this should be attended to errly. It does not do to prune grapes so late in the season that they will bleed. By pruning now and by judicious thinning the wounds will have opportunity to callous over before the sap starts. If the vines are too thick it is wiser to cut out some of them than to try to thin them by cutting out the new growth, as the latter will generally start more new growth which will thicken up the vines and shut out the necessary light and air upon the grapes.

#### OF EXCEPTIONAL INTEREST.

A large, well-known Kansas business firm, having over \$225,000.00 invested in a going profit-earning business, wants to get into touch with a few men of some means, who are looking for a good business opening where profits are sure and worth while. To add extensions and improvements made necessary by the volume of business offered, and which now cannot all be handled, an interest in the firm, with a fully guaranteed income will be extended to a few progressive men. Costs nothing to investigate this. No time for speculators or curiosity-seekers. This is an opening that occurs only about once in a life time and for that reason will not be open long.

Full information to you by return mail, if you write today to A. R., 625 Jackson St., Topeka, Kan.







#### With a Stewart Horse Clipping Machine 诺

Farm horses need clipping. A heavy, sweaty coat of hair saps their energy and strength. Clipped horses keep in better condition, work, sleep and look better than unclipped horses, and are less liable to take cold. The World's Best The Stewart No. 1 is the best machine in the world and is better suited to your needs than any other. For it's made simple and works simple. There are no complicated or delicate parts—as in other machines—so that it will last, and give good service, for a lifetime.

Quick, Clean and Safe Clipping

Anybody can clip horses with a Stewart. Can clip horses of guiding the knile while the crank is being turned.

The Stewart No. 1 is a Bail Bearing machine with all working parts inclosed, where they run in an oil bath. All gears are cut from the solid steel bar and made file hard. These four features are essential to correct and easy clipping. Look for these points in every horse clipper; refuse the machine that has not got them.

Send \$2.00 Orders Stewart No. 1 from your local dealer. The price complete is \$7.50. Or send \$2.00 with your order and we ship the complete outfit C. O. D. for Quick, Clean and Safe Clipping

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of the famous Ziegler corn harvester. Man and horse does work equal to corn-binder. Regular price \$15.00; factory clearance sale price, \$10.00; illustrated literature free, showing machine at work.

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GOPHERS
only \$1.00 prepaid. Write for circular. It's free. A. F. Renken Trap. Co., Kramer, Neb.

Something is wrong, and should be righted. You people here and we in Canada are not making the best use of the soil. When we note England's results from tillage we are only beginning to know the A.R.C. of again ginning to know the A B C of agriculture.

The men who produce good steers on good soil should be the finishers every time. Why are you raising so many hogs? Why don't you carry it all the way through and raise good bullocks?

You young men have the opportunity to learn more about live stock in this two week's course than it was possible for me to learn in ten years. The world never called as it is calling today for men who really know how to do.

I can't understand how it is possible for you to farm and have all your eggs in one basket. With this great market in your state, how is it possible that you are giving up live stock when cattle growing must go hand in hand with maintaining soil fertility? In coming down from Chicago the thing that impressed me most was the wastefulness of farm manure. The farmer's best bank is his manure pile.

The growing of rape for fall feed when pastures are apt to be dried up, gives excellent results in finishing cattle for future market, or getting the breeding herd into good condition for stabling. A run to rape and access to dry short grass or hay stack has been known to give a monthly increase of 75 to 100 pounds per bullock. I am surprised to see that so many cattle are put on the market in halfflesh condition.

The third class animal scarcely ever leaves any profit with the man who produced it and put it in order. The second-class animal may or may not pay its way. But how many of you have ever lost on a good animal? It is a rare thing.

I don't know of any line of work that should be so attractive to the young people of Illinois as life on a good farm nicely stocked with a good class of stock. Young men, set your standards high. Do not be satisfied with being an average farmer.

# READERS MARKET PLACE

WANTED—YOUNG MARRUED MAN, viprorous worker, to d fearwise to work on grain farm by month or year. Good wages Address E. R. Hanford, County Line, Ida.

TWENTY REAL LIVE WIRE AGENTS wanted immediately, men or women, Continental Tissue Co., B. Lock Box 60, Fremont, Ohio.

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

WANTED—YOUNG MARRIED MAN TO live on grain farm. Must be sober, industrious and good teamster. State wages by year. Small family. J. A. Hanford, Oakes-dale, Wash.

WANTED—RAILWAY MAIL, P. O. clerks, city and rural carriers. Prepare now for examination; 100 free scholarships. Write for schedule and free trial lesson. Ozment, Dept. 44R, St. Louis, Mo.

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

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

WANTED—BY SINGLE MAN, POSITION on farm. Am tired of town and willing to work for low wages until familiar with farm work. Good hand with horses. Inquiries may be sent to Jesse Johnson, Clay Center,

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

WANTED—A FEW LIVE MEN WHO can earn \$100 weekly to assist in placing a few high-grade bonds, which are secured by \$225,000 worth of property. Stock bonus to the first ones taking up proposition. For particulars address D. A. Rogers, Caney, Kan.

WANTED—MEN TO LEARN THE BARber trade: few weeks complete, practical
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know their business and teach it as they
know it; extra large outfit of tools given
with reduced tultion price; wages while
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system of Barber olleges, 30 W. California
Ave. Oklahomia City, Okla; Wichita, Kan.;
El Paso, Texas; 75 E. 2nd St., Amarillo,
Tex. Address any school.

REAL ESTATE.

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

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FULL DESCRIPTION OF DELAWARE farms; healthful climate; best bargains, Write for free 1910 catalog, Chas M. Hammond, Milford, Del.

WANTED TO RENT—BY YOUNG MAR-ried man, on shares, a good farm in central or western Kansas. References exchanged. S. B. Price, Highland, Kan.

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

BEST IN SUMNER COUNTY—FINE smooth, well improved half section, natural gas fuel, soft water, two miles from town, 160 extra good alfaira land. Write for price. C. L. Haslet, Wellington, Kan.

FREE FARMS-GOVERNMENT LANDS free; 1.000,000 acres in Arkansas for home-steading; where located and how secured shown in our 1909 booklet, sent postpaid for 25c. H. D. Glass, Harrison, Ark., Box K.

GOVERNMENT FARMERS WANTED—Salary \$800 yearly. Free living quarters, fuel and light, Examination soon. Let us prepare you now. Write today. Ozment's College, Dept. 44F, St. Louis.

BUY A HOME IN EASTERN OKLA-oma, 50 farms for sale, three illustrated ooklets brimful of information free for ets brimful of information free for asking. Write Oklahoma Land & Co., Wagoner, Okla

READ! READ! READ! 200 ACRES, TWO niles of Osborne, fine home, price right, rite us. 160 acres, 5 miles of County Seat, rell improved, trade for Western Kansas and. Fine bargains in level wheat land for peculators, Yours for business, Layton Bros. ishorne, Kan.

WANTED—FARMS AND BUSINESSES.
Don't pay commissions. We find you direct
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lowest price. We help buyers locate desirable properties FREE. American Investment Association, Minneapolis, Minne-

FARM FOR SALE—HALF SECTION IN Harper Co., Okla. Two hundred and forty acres in cultivation, on creek bottom, black sandy loam. An ideal cotton, wheat and corn farm, 10 miles of county seat, two miles of good town, walking distance of one of the best colleges in Oklahoma, fair improvements, rented for 1910 and 1911 at \$320 per year; price until March 1, \$6,500; half cash, balance 5 years 5 per cent. Address James J. Doyle, Junction City, Kan., Route 6.

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ticular people to take advantage of our
prices and services. Western Printing Co.,
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Pris. Dept. of Kansas Farmer, Topeka, Kan.
WANTED—YOUNG MARRIED MAN,
WANTED—YOUNG MARRIED MAN,

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

40 ACRES SMOOTH UPLAND, ALL tillable, 5 miles N. E. of Topeka, 12 acres tame grass pasture, 3 acres alfalfa, 2 acres cloyer, variety of bearing fruit and berries, hog lot, 4 room house with closets, purches and big cellar, barn with 5 stalls and 8 stanchions, large shade trees. fine place for dairy, hogs, poultry, etc.: school close, telephone, R. F. D. Price \$3,800. J. E. Torrington, 105 W. 6th St., Topeka, Kan.

POULTRY.
CHOICE BUFF ROCK COCKERELS FOR ale. W. W. Hamilton, Nickerson, Kan.

SINGLE COMB WHITE LEGHORN eggs. R. W. Yeoman, Lawrence, Kan.

BARRED PLYMOUTH ROCK COCKER-els, Thompson strain; eggs in season. L. R. Kuney, Adrian, Mich.

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

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

EXTRA SILVER WYANDOTTE HENS cheap. Eggs. \$1.50 per 15. Mary Gordon, Baker. Kan.

THOROUGHBRED S. C. BUFF ORPING-ton eggs for setting. C. C. Baker, Lathrop, Mo.

CHOICE LIGHT BRAHMA COCKER-els \$2 each. Mrs. Adda Prickett, Wamego, Kan.

s. C. WHITE LEGHORN EGGS FOR sale; Wyckoff strain. Mrs. Mabel Sullivan, Abilene, Kan., R. 7. ROSE COMB B. L. EGGS, \$1.00 PER fifteen, \$4.00 per hundred. Mrs. O. B. Smith, Cuba, Kan.

R. C. RHODE ISLAND REDS—EGGS from best winter layers, \$1.00 per 15. Mrs. A. J. Nicholson, Manhattan, Kan.

CHOICE LIGHT BRAHMA ALSO RHODE Island Red cockerels \$2.00 each. Eggs in season. Mrs. J. E. Dyer, Sedan, Kan.

BARRED ROCK COCKERELS—HIGH quality for a low price. Breeder for 20 years. Mrs. C. C. Logan, Route 1, Milton-

FOR SALE—PURE BRED SINGLE COMB R. I. Red Cockerels, also eggs in season. drs. W. L. Quall, Topeks, Kan., R. D.

MAMMOTH PEKIN DRAKES \$1.00, Trio \$2.50. Eggs. Prize stock. S. C. Buff Orpington cockerels \$1.00. F. W. Kingsley, Woodston, Kan

SINGLE COMB RHODE ISLAND REDS eggs \$2.00, \$3.00 and \$5.00 per 15; none better; my show record tells the story. Chas. B. Lents, Atchison, Kan.

PALMER'S BLACK LANGSHANS WON every first in class Kansas State Show, 1910. Stock for sale. Eggs \$8 for \$15. H. M. Palmer, Florence, Kansas.

WHITE ROCKS—RIG BONES, VIGOR-ous, farm-raised birds that win. Wonderful egg producing strain. Be friendly. Write me your wants today. Mrs. A. Berry, Clar-inda, Iowa.

BARRED PLYMOUTH ROCKS—WON AT the great Southwestern Iowa Foultry Show, 1910, 1st cock, 1st cockerel, 1st hen, 1st pen and second pullet. Send for free mating list and get your egg orders in at once. A. D. Murphy, 41 Essex, Iowa.

BUFF LEGHORNS—EGG MACHINES. Money makers. Beautiful, stylish birds. Bred to lay eggs. Be friendly. Write me today. Mrs. A. Berry, Clarinda, Iowa.

S. C. B. ORPINGTON EGGS, \$2.50 FOR 15 Willard and Schadd strains. A. F. Mc-Hugh, 1302 West Douglas Ave., Wichita, Kan.

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

PARTRIDGE FLYMOUTH ROCKS, BAR-red, Columbian, Silver Penciled, White and Buff. J. A. Hagerman, Rock Specialist, Pres. Partridge Ply, Rock Club, Box K, Charlotte, Mich. Catalogue.

BUFF ROCKS FOR BUSINESS, FLEAS-re, and profit. Have raised nothing else or nine years. Have the best stock of irds now that I ever had. Eggs, \$1 for 5; \$5 for 100. H. M. Stephens, Munden,

INDIAN RUNNER DUCK CULTURE— Finest illustrated book published, describes and prices greatest money makers. Tells how to hatch and care for the duck that lays 200 eggs per year. Send 2 cents. lays 200 eggs per year. Se Berry's Farm, Clarinda, Iowa.

STANDARD BRED S. C. BUFF LEG-horns-founded by stock of prize winners of Chicago and St Louis World's Fairs and are prize winners. Eggs, \$1.50 for 15, \$5 per 100. Cockerels for sale—S. PERKINS, 801 E. First St., Newton, Kan.

PLYMOUTH ROCKS, WHITE AND BARred—High grade, farm raised, vigorous, bred to lay stock. Money makers. Eggs for hatching, any quantity any time, winter or summer. Circular free, with prices tells all Write today. The Weaver Poultry Ranche, R. 9, Wichita, Kan. 50 WHITE ROCK COCKERELS AND A few good pullets for sale. J. C. Bostwick, Hoyt, Kan.

BARRED ROCKS—62 PREMIUMS, 26 firsts. Stock and eggs. W. C. Opfer, Clay Center, Kan., Route 5.

SINGLE COMB BUFF ORPINGTON eggs, \$1.00 per fifteen. Mrs. Frank Henning, Garnett, Kan.

SINGLE COMB BROWN LEGHORN AND White Wyandotte eggs, 75c per setting, \$4.00 per 100. Mrs. F. E. Town, Haven, Kan.

CHOICE PURE BRED HOUDAN COCK-els, 75c. Carefully shipped. S. P. Green, Mankato, Kan.

GOLDEN BARRED ROCKS — THE beauty and utility breed; plumage buff and white barring, making a most beautiful fowl. Write for handsome free catalog. L. E. Altwein, Originator, St. Joseph, Mo.

ROSE COMB RHODE ISLAND REDS EXclusively. Eggs for hatching in season \$1.50 per 15. \$7.00 per hundred. D. Winchell, Unionville, Mo.

100 BARRED ROCK CKLS. AND FE-ales, prize winning strains, 85 premiums. 9 yrs experience. Eggs. 22 per 15, \$5 per chris. Bearman, Ottawa Kan.

SINGLE COMB BROWN LEGHORN eggs for hatching. From prize winning, sure hatching, free range stock, \$1.50 per setting, \$5.00 per hundred. A. G. Nelson, R. 5, Chanute, Kan.

FOR SALE—BABY CHICKS (DIFFER-ent varieties) any quantity, any season, full count and live delivery guaranteed. Custom hatching and brooding. Eggs for hatching. Our egg contract circular and catalog for the asking. P. C. Fish Poultry Yard and Hatchery, 4334 Belleview. Both Phones. Kansas City, Mo.

PHEASANTS, ENGLISH RINGNECKS, the splendld game birds the Kansas Game Warden is introducing into the state. Besides being the gamlest of game birds, they are inveterate destroyers of field mice and insects that despoil the farm and are withal most beautiful creatires. For sale by M. A. Marley, Oswego, Kan.

HORSES AND MULES.

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

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

FOR SALE—IMPORTED AND HOME bred black Percheron and Standard bred driving stallions. Joe S. Williams, Edson, Kan.

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

SWINE.

PORK WITHOUT CORN—TAMWORTHS, the ideal alfalfa hog. A choice lot of registered June boars for sale at reasonable prices J. G. TTroutman, Comiskey, Kan.

CATTLE.

FOR SALE—ONE CHOICE HOLSTEIN-Friesian bull calf of fancy breeding. G. V. Fontious, Rantoul, Kan.

ST. LAMBERT JERSEYS — BULLS ready for service; cows and heifers. L. R. Kuney, Adrian, Mich.

FOR SALE—TWO ANGUS BULLS, COM-ing twos, Sired by Black Conqueror of Kan-sas Agricultural Collège. Chas A. Streeter & Son, Wakefield, Kan.

FOR SALE-DUROC JERSEYS (REGIStered; boars ready for service; sows bred; pigs at weaning. L. R. Kuney, Adrian, Mich.

E US BEFORE PLACING YOUR catalog printing. Western Printing Ptg. Dept. Kansas Farmer, Topeka,

FOR SALE—12 GRADE JERSEY MILK cows, seven soon to freshen. Exceptional lot, \$800. Sayda Polo Jersey Farm, Parsons, Kan.

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

ALYSDALE SHORTHORNS — HERD headed by the magnificent Scotch buil Archer Victor No. 292012 for sale now at bargain prices, the following (red) bulls: Chief Burnett No. 311843, dropped December 16, 1908; Santa Claus No. 311849, dropped December 25, 1908. Also some fine young females, all richly bred. Call or write Chas. W. Merriam, Columbian Bidg., Topeks, Kan.

#### PATENTS.

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

PATENTS PROCURED AND POSI-vely sold if the idea has merit; all coun-ries; best service; book free; send sketch. I. Sanders, 115 Dearborn St., Chicago, Ill.

BERMUDA GRASS. J. G. MITCHELL,

FOR SALE—200 RED CEDARS 6 TO 18 inches high, low prices. Andrew Soder-gren, Garrison, Kan.

BOONE COUNTY WHITE SEED CORN, tested and guaranteed as represented. E. E. Haven, Hiswaths, Kan.

250 STRAWBERRY PLANTS \$1.00. IN the best varieties. Wholesale brices on Nur-ery Stock. List free. John F. Dayton,

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

TESTED PURE-BRED SEED CORN AND oats of standard varieties. Western Pure Seed Co., F. A. TenEyck, Mgr., Concordia, Kan.

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

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

WESTERN TREES FOR WESTERN planters. None better anywhere. Frice list free. Bishop & Carnshan, Conway Springs, Kan.

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

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

FOR SALE—BEARDLESS BARLEY—Recleaned and sacked f, o, b, cars at Manhattan, \$1 per bu. Also, genuine Red River Early Ohio potatoes in car lots direct from Minnesota, write for prices on potatoes. A. F. Huse, Manhattan, Kan.

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

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

FOR SALE CHEAP, 450 BBL 2 INCH cypress tank, complete, Write John T. Mosa First National Bank, St. Marys, Kan.

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

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

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

TOBACCO HABIT CURED OR NO COST. Safe, pleasant, permanent., Physicians as-tounded. Great discovery. Send your ad-dress at once King-Ni-Ko 9. Wichita.

BUYERS AND AGENTS TO SELL OUR concrete mixers and cement block, fence post and brick machinery. Send for circulars and prices. Keller Concrete Machine Co., Kearney, Neb.

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

LAWYERS.

W. T. ROCHE. LAWYER, CLAY CEN-ter, Kan., will mall you a written opinion of the law on any proposition for one dol-lar. Send full statement or facts with remittance.

Roy Johnston of South Mound, Kan., keeps right on selling the big boned Poland Chinas, even though he has a big public auction every once in a while. The reason is to be found in the quality of the hogs he offers. He breeds for the large type and his herd is headed by Orphan Chief 50986, John Long 49897 and One Price, a litter brother of King Blain. The glits he now has sre better than the ones he disposed of in the January sale, and he believes that he will have a great offering in his May 17 sale. Keep this date in mind and make your arrangements accordingly.

Editor Kansas Farmer:—Of all the farm papers I am reading, and that is quite a number, I am partial towards the Kansas Farmer. Its columns are filled with more good, hard, practical, common sense than any I read. I may feel a little more friendly towards Kansas since your Agricultural College came over here and took from us one of the best educators we had in the person of President H. J. Waters, a personal friend of mine, though I have always had a warm spot for Kansas in meart. Yours for better farming, Geo. W. Williams, Pres. Folk County Agricultural and Horticultural Society, Humansville, Mo.

and Horticultural Society, Humansville, Mo.

Mr. Hendershot states in announcing his twelfth sale of Percheron stallions and mares that he fully maintains the standard of his former sales of being the big draft type with extra heavy bones, good feet, fine style, with good action. These qualities, combined with the blood lines known to the Percheron breed, is about all one requires in selecting a first class breeding animal. His offering consists of 40 bred mares, 10 yearing fillies and 20 stallions from 2 to 5 years old, The stallions weigh from 1,700 to 2,200 pounds, the mares from 1,600 to 1,900 pounds. If you are in the market for a first class imported or home bred stallion or mare, write Mr. Hendershot at Lincoln, Neb., for sale catalog, Kindly mention this paper and oblige, O. F. Hendershot.



Economy on the Round Dairy Barn.

The planning, construction, and arrangement of farm buildings do not usually receive the thought and study these subjects warrant. How many dairymen have compared a circular, 40-cow barn with the common rectangular building containing the same area? How many understand that the circular structure is much the stronger; that the rectangular form requires 22 per cent more wall and foundation to enclose the same space; and that the cost of material is from 34 to 58 per cent more for the rectangular build-

To the writer's knowledge, heretofore there has never been published a carefully figured out, detailed comparison of a properly constructed circular barn with ...e rectangular barn. The objections that have been raised to round barns have usually been made by people who have not gotten far enough into the subject to really understand the relative merits of the

two forms. It has been found by comparison and experience that the round barn has many advantages over the rectangular form. In order to compare the amount and cost of material in the round and rectangular barns, the figures given are based on the careful, detailed estimates of an expert barn builder. Two comparisons, figured on wood construction throughout, are made, in which round barns 60 feet and 90 feet in diameter are com-pared with both plank and mortise frame rectangular barns containing the same number of square feet of floor space, respectively. I have found

1. Round barns would be more generally built if their advantages were known and if the few which have been erected had been rightly constructed.

2. The round dairy barn oners greater convenience in storing, handling and distributing the feed. 3. In the circular construction, much

greater strength is secured with less lumber.

4. Detailed account, with cuts show-ing how the round barn at the university was built.

5. Itemized statement of cost of a 6. Brief descriptions with cuts and plans of several round dairy barns in actual use.

In summing up the data given in this bulletin, it is obvious that the advantages of the round barn are convenience, strength, and cheapness.

The round barn is more convenient

because of the greater ease and fewer steps with which the feed can be gotten to the cows, owing to the central location of the supply, and because of the unobstructed mow, which reduces the labor required in mowing hay

The circular construction is the strongest because advantage is taken of the lineal strength of the lumber. All exposed surfaces are circular, and withstand greater wind pressure be-cause the wind can get no direct hold, as on the sides or gable ends of a rectangular barn.

In round numbers, rectangular barns require, according to their construc-tion, from 34 to 58 per cent more in cost of material than round barns of the same area and built of the same grade of material.-W. T. Fraser, Champaign, Ill.

#### Kansas Buttermakers Bi-Monthly Scoring Contest.

The first bi-monthly contest of the year 1910, will be held at the Dairy Department, K. S. A. C., Manhattan, Kan., March 1.

Considerable interest was taken in this work the past year, and we hope that this interest will be maintained the coming year.

The prizes for last year's contests were awarded as follows:

Nels O. Nelson, winning first place with a score of 91.4, entitling him to a special butter trier, and to hold the Buttermakers dup for one year, F. J. Springsteen, winning second by

a score of 90.8, also entitling him to a special butter trier. These two men also received a Buttermakers Certifi-cate granted by the Dairy Department for having had an average score for

the year, of 90 or over.

We feel that a great deal of good is obtained from these contests since it gives the buttermakers a chance get the friendly criticism of his products, from a competent and impartial judge. By the use of the blanks sent out, the judge has a chance to decide on the causes for the defects, and offer suggestions for

improvement.

Any Creamery Buttermaker in the state of Kansas, is eligible to become a member, and we wish all, to send a tub of butter every two months, be-

ginning March 1, 1910.

For blanks and further particulars, write A. B. Nystrom, dairy department K. S. A. C., Manhattan, Kan.

The daily press reports one of the greatest farm sales ever held in the state in the auction made by D. F. McAlister four miles south of Westmoreland last week. Mr. McAlister had sold his farm of 160 acres last fall for \$9,400 and bought another farm in Greenwood county. Preparatory to moving to his new home he held a farm sale and among the animals of-fered were a pair of gray 3-year-old geldings which went for \$500; a pair of 2-year-olds sold for \$390, while a 5-year-old gray mare brought \$277.50. Some of the younger animals are said to have sold proportionately higher. Mr. McAlister has kept from 2 to 4 Percheron stallions on his farm for a number of years, and is credited with having been of enormous benefit to his neighborhood and to Pottawatomie county in the improvement of horses which he has accomplished. The Topeka State Journal states that there was a crowd large enough to have made a good county fair and that the horses were fully equal to those usually seen at fairs.

Careful attention to the legs and feet of the horse during the muddy spring months will save much trouble and labor. If the mud is carefully cleaned from the legs and feet after each drive in muddy weather the labor will be found to be much less and results more satisfactory than will the treatment of a case of scratches later

#### For Split-Bark on Fruit Trees.

Please advise me what to do for peach and plum trees when the bark splits and bleeds. The trees have

been planted two years.

Can you tell me by what means I can destroy the worm which attacks the cabbage? Any literature or information on garden culture will be appreciated.—B. F. Brabant, Pleasanton, Kan.

The bark of fruit trees, particularly peach and plum, frequently splits when severe cold weather follows a season of vigorous growth. For bark splitting caused by winter injury, a coat of grafting wax will be helpful, although, in most cases, the trees will make a good recovery without treat-ment. Splits caused by cold are likely to be narrow and extend for some little length up and down the trees. A disease, upon which the pathologist is still working, frequently causes bark to split, but the breaks in the bark are short and wide, looking much like injury from hail storms and around this a growth of corky tissue ensues. This has been most frequently noticed on the varieties of the Japanese plum. No satisfactory treatment for this has been recommended.

While the cabbage plants are small they may be sprayed with arsenate of lead or Paris green, but as soon as the head forms, application must be discontinued. If this is done, you will not be troubled much with the cabbage worm after the head is formed. But, if they are very humerous, pyrethrum powder or hellebore may be dusted upon the nabbage, appreticulation best Bishems, it is, it is



#### AN INTRODUCTION

This note will introduce to you "Miss Dairy Maid" of Never-blue. She can't help smiling, even now, Because her father sold one cow-The poorest of the herd, he said-And bought a "Butterfly" instead.

Let us send you, free and postpaid, our 1910 Catalog of New Butterfly Cream Separators and a souvenir photo print of "Miss Dairy Maid."

Prices direct from our factory to you, \$14.85 to \$46.30. Six sizes.

ALBAUGH-DOVER CO. 2109 MARSHALL BLVD., CHICAGO, ILL.



# The Thing That Interests Dairymen

is not which Company has made the most failures in its attempts to make successful Cream Separators, or which Company has abandoned or discarded the most inventions because (by its own admissions) of the inferiority of those inventions, but

#### Which Has the Best Cream Separator in 1910.

The United States Separator beat all of its competitors and won the GRAND PRIZE at the Alaska-Yukon-Pacific Exposition, June to October, 1909.

The United States Separator beat all competitors at the Pan-American Exposition in 1901, in fifty (50) consecutive runs, with ten different breeds of cows and won the WORLD'S RECORD and continues to hold the WORLD'S RECORD in 1910.

The best breeders and leading dairymen everywhere use the UNITED STATES SEPARATOR.

Beautiful Illustrated Catalogue No. 9, will give you all other necessary information.

VERMONT FARM MACHINE CO., BELLOWS FALLS. VT.

U.S.

# ALFALFA SEED For spring sowing. From locality where it grows best and most abundantly. Our seed won the Gold Medal at the St. Louis World's Fair, in competition with the world. All our seed is native grown, prices and free samples. Address McBETH, & DALLAS, GARDEN CITY, KANSAS.

REID'S YELLOW DENT SEED CORN that will grow. I grow and carefully select every ear of my seed corn. Twenty ears won 2nd place at Nebraska State Show. Single ear won 3rd. Send 25c for sample ear, grains free. Write for prices; they are FRANK J. RIST,

Nebraska.

# CATALPA SPECIOSA.

Special low prices on Catalpa Speciosa, Concord Grapes and Kieffer Pears. Write for descriptive catalog. KANSAS CITY NURSERIES, 417 Reliance Bldg., Kansas City, Mo.

#### ABILENE NURSERIES.

W. T. Gough & Co., Abilene, Kan. Write for catalog and price list before placing your order. We have the stock that bears fruit, also all kinds Ornamental trees. Forest Trees, Shrubs, Roses and Vines, Special attention givon mail orders, 10 per cent Discount on \$5.00 order; 15 per cent Discount on \$10.00. Mention paper.

# TREES from 20 to 50 Per Cent

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

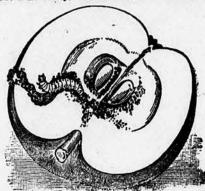
#### PURE BRED SEED CORN.

Reids Yellow Dent which tests 97% per cent of this year, 400 grains taken from 100 ears that 390 grew out of 400 planted in tester, guaranteed to satisfy or money returned upon return of grain, also several one hundred bushels of fine White Swedish Oats 25 bu, \$25. \$35 per 100 bu, fully guaranteed.

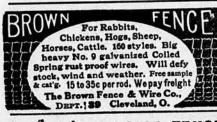
W. W. ELLMORE,

Spraying Fruit Trees.

The question of spraying fruit trees to prevent the depredations of insect pests and fungous diseases is no longer an experiment, but a necessity. Our readers will do well to



write Wm. Stahl Sprayer Co., Box 3-B, Quincy, Ill., and get their catalogue describing twenty-one styles of Spraying Outfits and full treatise on spraying the different fruit and vegetable crops, which contains much valuable information and may much valuable information, and may









Dairy Law.

Will you please give in the Kansas FARMER a synopsis of the dairy law passed by the last legislature? We are told that any one selling milk, cream or butter must have his cow barn at least 150 feet from any other barn.—T. S. Brockman, Cummings,

If the quality and quantity of dairy products of this state are to be increased it is essential to provide by law the sanitary requirements for the production of good flavored market-able milk and cream, etc., and likewise to aid the producer by opening markets for his products. As most of the dairy products are sold upon the basis of butter-fat it was found necessary that some legal protection should be given the producer in seeing that he receives perfectly accurate tests of butter-fat in the shipments of milk and oream made by him. Therefore, it was made unlawful, after Jan. 1, 1910, for any person to sample, test or to buy or handle dairy products where the value of the same is determined by the Babcock test without having a permit; permit to be granted to those who had proved themselves proficient in the art of testing dairy products and providing for the cancellation of same when the person holding the permit was found to be violating any of the provisions or regulations of the dairy law. Turough this medium it is expected that the dairymen will get perfect and honest returns from the milk and cream he has to market and that the products thus handled will be cared for in a sanitary and proper manner so as to encourage the producer in furnishing better raw material for the market. While the law specifically provides for the protection of the product after it has been produced, it also has provisions which govern its production. It is quite possible that these provisions are the ones which the inquirer is most inter-

In Section 2 the law provides that it shall be unlawful to sell or offer for sale milk, cream, cheese, butter, etc., that is not fresh, pure and clean, and empowers the dairy commis-sioner, or his deputy, to forbid and prohibit the sale of unclean or unwholesome milk, cream, butter, cheese, etc. It further provides that it shall be the duty of the commissioner or deputy to condemn for food purpose all unclean, unwholesome milk, cream, butter, cheese, etc., wher-

ever they may find some.

In Section 4 it says that it shall be unlawful to offer for sale milk, cream, butter, cheese, ice-cream, or any dairy product that is not pure and fresh and handled in clean utensils or to offer for sale or to sell milk from diseased or unhealthy animals, or handled by any person suffering from or coming in contact with any contagious disease. It further provides that it shall be unlawful to add any foreign suc-

stance to dairy products such as pre-servatives, also adding water, etc., or to remove from the milk any of the butter-fat, or to in any way deteriorate or adulterate the milk so as to

render it impure.

In Section 7 it forbids the handling or storing of milk or cream in any place that is unclean or where strong flavored products are stored and handled, such as vegetables, eggs, etc., or to handle milk or cream or any dairy product in a place opening upon or connected with a cow barn, horse or hog barn, sheds or other places where live stock are kept housed or handled. That is to say that the milk must be removed from the place of milking as soon as milked and placed in pure air, where the product can be kept in a pure and sanitary condition.

**Buys the Best** Egg **Incubator** 

**Ever Made** Ever Made

\$4.50 Buys the Best Brooder

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



and save waiting.
Satisfaction
Guaranteed
Box 18, Radne, Wis.

in Section 8 it provides for the richness and the age of cream. For many years our dairymen have been more or less negligent as to the age of the cream delivered to the creamery, there-fore it was found essential to frame a provision to the law making it unlawful to sell or offer for sale cream, of which any part of the shipment is more than four days old, from November to April, inclusive, and from May to October, inclusive, three days old.

From the above synopsis it can be seen that it is possible for any person to comply with the law as to the principal requirements—cleanliness and

To aid the dairymen and creamerymen to comply with the law some brief advice has been furnished by the Commissioner's Department and is given below:

"Milk stored or shipped in rusty or unsanitary cans, produced or milked in unsanitary surroundings, produced by unhealthy cows, or milk produced from cows with fifteen days before and five days after calving, is consid-ered as impure and unhealthy milk.

'Cream stored or shipped in rusty or unsanitary cans, cream handled in unsanitary surroundings, or cream that has been skimmed by a separator that was not clean when used, is considered as unclean and impure.

"Butter stored where oils, vege-tables, poultry or other strong-flavored merchandise are handled, or butter packed, shipped or stored in unclean butterstands ,boxes, or packages, will be condemned for food by the State Dairy Commissioner or his deputies.

"Section 5 provides for testing of milk and cream or their products. The securing of accurate samples of dairy products is the first important step in testing. It is hereby required that all milk should be poured at least once from one vessel to another before a sample is taken for the test; and that cream shall be poured from one vessel to another at least three times before sampling, unless the said milk or cream is thoroughly stirred and sampled by the 'McKay' sampler or some other recognized sampler that will secure a representative sample.

"All milk or cream utensils that are used for the purpose of shipping or storing milk or cream that are not removed from the depot on the same day they arrive, and from which the covers have not been removed and the cans inverted in pure air, will be considered unclean and unsanitary uten-

"Milk to be separated should be separated as soon as possible after milking, and the cream of each separation cooled by placing said cream in cold water before mixing with cream of different separations.

"A permit to test milk or cream shall not be granted to any person maintaining an unsanitary milk or cream depot until such place meets the approval of the dairy commissioner or his deputies, or satisfactory proof is furnished that the said milk or cream depot is sanitary.—D. M. Wilson, State Dairy Commissioner."

Oleo and Butterine.

A subscriber asks for an explana-tion of the difference between oleomargarine and butterine. The good Lord and the manufacturers only know what either one is made of, but the oleo manufacturers claim that "oleomargarine is a mixture of various animal and vegetable fats, which is churned with milk to impart a butter flavor. The principal fats used are oleo oil, a selected fat from beef that is obtained from the caul fat: this is washed, well chilled in fat; this is washed, well chilled in ice water, then cooked, cooled and put into hydraulic presses by which the oil is extracted. 'Neutral,' or neutral lard, is the lard of the pig; the leaf fat when taken out of the animal is put into a refrigerator where it remains 24 hours; it is then well cooked and becomes absolutely colorless and has neither taste nor odor. The veg-etable fat commonly used is cotton seed and then highly refined." Investigators have found many other by-products, such as paraffine, boric acid, etc. Butterine is eleomargarine with which is mixed more or less butter. This is a purely commercial term, however, and not recognized by law. All "butterine" is legally elec-margarine. Oleomargarine and butterine surely ought to be called by synonymous terms, and their descrip-tion reminds us of the advice given by an old colored preacher who told his flock that there were two roads the Christian should avoid, as one led to purgatory and the other to perdition.—P. F.

# Other Cream Separators

# Merely Discarded or Abandoned

# De Laval Inventions

It is interesting and instructive to know that nearly, if not quite, every cream separator that has ever been made, and certainly all that are being made at this time, are merely copies or imitations of some type of construction originally invented or developed by the De Laval Company, and either not us d by it because of something more practical or else discarded and abandoned in the course of De Laval progress and utilization of later improvements.

As earlier patents have expired some of their features have one after another been taken up by different imitators, so that at all times, as is the case to-day, every separator made in the United States or elsewhere in the world, utilizes some type of construction originally owned and developed by the De Laval Company though some of them have never been commercially used by the De Laval Company because of their inferiority to other types of construction used by it.

The De Laval Company has always been forging ahead, with its many years of experience and the best of experts and mechanics the whole world affords in its employ, so that before any expiring patent might permit the use of any feature of construction by imitators the De Laval Company had already gone so much heyond that type of construction that it was then old and outof-date in the modern De Laval machines.

All cream separator inventions by others have been of immaterial details or variations, upon which patents have been taken, if at all, more for the sake of the name than by reason of any real value or usefulness attaching to them.

The first practical continuous flow centrifugal Cream Separator was the invention of Dr. Gustaf de Laval in 1878, the American patent application being filed July 31, 1879, and issuing as Letters Patent No. 247,804 October 4, 1881.

This was the original Cream Separator—of the "Hollow" or empty bowl type—and it has been followed from year to year by the various steps of cream separator improvement and development, all De Laval made or owned inventions, the American patent applications being filed and letters patent issued as

The original hand Cream Separator of the "Bevel Gear" type; application filed October 2, 1886, issuing as Letters Patent No. 356,990 February 1, 1887.

The original hand Cream Separator of the "Spur Gear" type application filed January 17, 1887, issuing as Letters Patent No. 368,328 August 16, 1887.

The original Steam Turbine-driven Cream Separator; application filed December 8, 1886, issuing as Letters Patent No. 379,690 March 20, 1888.

The original "Tubular" shaped "hollow" bowl Cream Separator; application filed April 19, 1886, issuing as Letters Patent No. 372,788 November 8, 1887.

The original "Disc" bowl Cream Separator; application filed May 12, 1890. issuing as Letters Patent No. 432,719 July 22, 1890.

The original vertical curved or interlocking "Blade" Cream Separator bowl, covered likewise by the application filed May 12, 1890, issuing as Letters Pat ent No. 432,719 July 22, 1890.

The original "Bottom Feed" Cream Separator bowl; application filed July 24, 1889, issuing as Letters Patent No. 445,066 January 20, 1891.

The original "Suspended" bowl Cream Separator: application filed August 21, 1893, issuing as Letters Patent No. 512,203 January 2, 1894.

The original "Star" or "Pineapple Cone" shaped series of cylinders Cream Separator bowl; application filed August 24, 1893, issuing as Letters Patent No. 521,722 June 19, 1894.

The original "Curved Disc" Cream Separator bowl; application filed Janu ary 18, 1905, issuing as Letters Patent No. 892,999 July 14, 1908.

The original "Split-Wing" Tubular Shaft Cream Separator bowl; application filed April 29, 1898, issuing as Letters Patent No. 640,358 January 2, 1900which invention, with a series of later improvements, is the type of bowl construction used in the De Laval machines of to-day, and still covered by protecting patents which prevent its appropriation by would-be competitors

The patents thus enumerated are but a few of the more important of the oped by the De Laval Company during its thirty years of creation and development of the Cream Separator industry throughout the world. They are recited because they show in the most illustrative and conclusive manner possible De Laval originality and leadership from 1878 to the present day.

In addition to these patent-protected features, the De Laval machines have within two years been mechanically re-designed and reconstructed in every part, from top to bottom, so that the new and improved line of De Laval machines are to-day even more than at any past period fully ten years in advance of any other cream separator made.

These are the Rock-of-Gibraltar-like separtor facts against which the mere "word claims" of would-be competitors fade away like the mists of night before the rays of the morning sun.

### The De Laval Separator Co.

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embody all that is best in manure spreader construction—all that makes for greatest manure profits. They have strength in abundance to withstand the hardest usage; they are simple, sure and steady in operation; they work perfectly with fertilizer in any condition; they are exceedingly light in draft.

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durable, and it will net you big dividends on your investment.

Manure is the cheapest and best fertilizer but it must be handled and spread right or most of its value is wasted. You must have an I H C manure spreader to get 100 per cent value out of the manure. I H C spreaders are doubling the crops of others. The one that suits your needs will do it for you.

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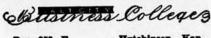
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# HE FAR



To secure the best results alfalfa should be sowed on rich land. It is generally accepted as true that alfa-If a enriches the soil and about this there can be no doubt so far as the nitrogen content is concerned but it requires time. Cow-peas, crimson clover, soy beans or sweet clover are good preparatory crops for alfalfa.

An excellent crop rotation, at least in some communities, is alfalfa four years and corn two years with a good crop of barnyard manure between the corn crops. If the soil is poor it may be better to crop to cow-peas or crimson clover as a preparation for alfalfa. In clay land sweet clover grown and plowed under is a good preparation for alfalfa.

Editor Kansas Farmer:-Enclosed find check for a two years' subscription to the Kansas Farmer. I am very much interested in your paper, and glad to renew my subscription. Through the Kansas Farmer I have become very much interested in the west and would like to consider moving to some location where I could grow alfalfa and where good health prevails.—Theo. Vogelsburg, Love-

The Iowa Agricultural College finds the largest profit whérever the amount of organic matter has been increased by applying manure or by following clover with corn or by sowing cow-peas in corn at the last cultivation. Wherever this has been done there has been a distinct increase in yield of the corn amounting to four to seven bushels per acre the first year where manure was used, and to seven to eleven bushels per year where legumes were grown.

The United States Department of Agricluture announces that the pea vines, which have heretofore been a waste product of canning factories have now risen to the dignity of a byproduct. These vines are now being cured for hay, fed to stock in the fresh state after the peas are picked, or are made into ensilage which is said to be superior in value to corn ensilage. Pea hay may be stacked as clover hay is and it will keep pracically as well if it is well tramped. I has a value higher than clover hay and both the silage and the hay are found to be excellent feed for dairy rows and satisfactory feed for beef cattle, horses and sheep. It sells from \$.:,00 to \$5.00 per ton.

How Is the Wheat?

KANSAS FARMER readers are invited to send in postal card or short letter reports on the present condition and prospects of the wheat crop. How did the wheat stand the winter? What portion of it, if any, is damaged? What do you suggest as the best treatment of the ground if the wheat has been killed to any considerable extent in your locality?

People Living Too High. Secretary Wilson of the Department of Agriculture is of the belief that the American people are suffering at present not so much from the high cost of living as from the cost of high liv-

"It has been said an American is the best fed, test clothed, best educated, and best housed man on earth," re-marked the Secretary. "We shall marked the Secretary. "We shall have to add now that he is the most expensively fed."

The Secretary pointed out that the fundamental difficulty was that people are leaving the farms to such an extent that there are not enough remaining to produce the food of the increasing population. The boys and girls of the farm, he asserted, are being lured away to the cities, to the factories, and to the mines, and to too great an extent the agricultural resources of the country are being neglected.—Ex.

Horton's First Institute.

For the first time in its history Horton has a Farmers' Institute organization. For years Horton has been known as a railroad and shop town.

but it is now becoming headquarters for farmers from one of the best seetions of Kansas. Tuesday Prof. P. E. Crabtree, of the State Agricultural College, and W. S. Gearhart, the state highway engineer, held an all any meeting in Horton. The Horton om mercial Club arranged for the meeting, securing the hall, furnishing dir ner for all the farmers and their wives, and keeping the farmers supplied with cigars. The meeting way one of the best Prof. Crabtree and France one of the best Prof. gineer Gearhart have attended. the said. A farmers' institute was organ ized with the following officers: Pres ident, George W. Jones; vice president, Frank H. Belden; secretary and treasurer. Robert L. Waller. The institute will meet at least twice a year, possibly oftener, and the Horton business men will see that the farmer are entertained in the proper manner whenever they are in town.

Corn from the National Exposition.

Editor Kansas Farmer: - Where can obtain some of the prize seed corn that I read so much about in the papers? I mean the corn that sold for such fancy prices at the National Corn Exposition at Omaha.—X. Y., Shawnee county, Kan.

We do not know where you could obtain samples of this corn as there was only a very limited amount of it in the first place and it was purchased solely for advertising purposes. The prices paid for this corn could not be made profitable to the purchasers in any way except that in which it is used. This corn was bought by enterprising publishers of newspapers who offer it in small lots as premiums to their subscribers and who will doubtless continue to offer it as long as the demand lasts or as long as they can create a demand for it. One purcan create a demand for it. One purchaser in another state is said to have bought ten ears. This quantity has undoubtedly been exhausted long since though the demand for it may still continue. Our suggestion to YY, is that he patronize a reliable dealer such as advertise in the KAN-SAS FARMER buy what corn he readsas Farmer, buy what corn he needs and pay the very reasonable pricer asked for it. By doing this he will be sure of what he gets, will know that it is of good quality and true to name. In fact, it may be wise to purchase seed corn this spring anyhow in many localities, as the weather condition last fall were such that it is doubtful if corn will germinate if taken from the crib or shucked from the field. A few dollars invested in good seed corn will save many dollars and make many

Secretary Wilson on Alaska Farming

The federal government has defi nitely adopted the policy of encourage ing setuers to take up agricultural land in Alaska and farm it. The Department of the interior has asked Congress to appropriate \$100,000 for surveying the agricultural and graz ing lands and a bill is now pending for this purpose. Still more recently Secretary of Agriculture Wilson made the following vigorous statement as to the achievements and possibilities in agriculture there dent:

"The agricultural possibilities of the territory are practically assured, it is quite within the probabilities that the farm products that the farm products there will eventually be worth more than the mineral output. Probably 100,000,000 acres are available for agriculture. This land can grow good crops owing to the long continued surshine of the There are at least wo summer. months when it never grows dark, The grains mature remarkably well under these conditions and hardy vegetables flourish. The very heaviest oats and barley that ever cam. to this office were from Alaska. have also remarkably fine samples of wheat from there.

"Farmers in our northern states will, in the future, find that grain seeds brought from Alaska are very desirable as they are hardler than seed grown further south. Work has already begun in the development of

"We have also been introducing domestic animals there, the effort being to produce a stock suited to the climatic conditions. We have now a herd of about sixty head of thoroughbred Galloway cattle on Kodiak Island which is propagating rapidly and seems to be very much at home."

Boys and Girls Agriculture Clubs. Farmers Bulletin No. 385 by the department of Agriculture summarizes the benefits to be gained from boys' corn contests, girls cooking con-tests and other agricultural clubs organized for the benefits of the young folks, as follows:

Individually the members of such clubs have been led to observe more closely, to recognize good and bad qualities of the products they have grown and in the insects, fungi, and other various conditions affecting their work; and they have met and learned to solve some problems in the improvement of plants, fruits, animals and housework.

Collectively they have learned the value of organized effort, of coopera-tion, and of compromise; and the so-cial instinct has been developed in them, a matter of great importance in rural districts, where the isolated condition of the people has long been a great hindrance to progress.

The influence upon the communities at large, the parents as well as the children has been wholesome. Beginning with an awakening interest in one thing, better seed corn, for example, communities have rapidly extended their interest to other features of rural improvement, with the result that in the regions affected by the agricultural-club movement, there has come about a general upward trend in the thoughts and activities of the people.

These club activities have in many instances exercised a very stimulating if not a "redirecting," influence upon the ordinary work of rural schools

and teachers. The knowledge gained from the work of these clubs has demonstrated that the natural love of competition

among boys and girls (as well as their elders) can be utilized to immense advantage in furthering their own education for efficiency.

To Poison Jack Rabbits.

Private individuals and a number of the experiment stations have sought to discover a satisfactory means of poisoning jack rabbits in localities where they have become so destructive to crops as to prove a pest. The New Mexico Station announces suc-

tess with a new combination.

The principal ingredients in this aew remedy are, sugar, dried alfalfa eaves, and strychnine. It was preared as follows: One ounce of sulate of strychnine and two pounds of augar were dissolved in two and onehalf gallons of warm water. To the water while it was still hot, enough oright alfalfa leaves were stirred in to about absorb the water. The mixminutes and stirred frequently so as to insure thorough impregnation of the leaves by the poison. Let the mixture set for three or four hours after which it will be ready to put out in the field. It will not be necessary to dry the leaves before putting out the poison. A small wooden paddle or large spoon may be used to dish out the mixture, which should be piles where the rabbits are accustomed to run and feed. Where the rabbits come into the field from the outside, the poison should be distributed along the edge of the field. The best time to do this is late in the because the rabbits do afternoon, most of their feeding at night; the poison will also be in a fresher condition when they come across it.

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Every farmer should have forceps on hand for an emergency. Colson's improved Forceps are the best

on the market. Thousands of them have been sold and given satisfaction.

Prof. C. A. Wilson, Instructor in Animal Husbandry of the University of Missouri says:

"We have just had occasion to use Colsons Pig Forceps and they are a complete success. We find that the pig can be lly gotten hold of and removed without injury to the sow or rig. Forceps of this pattern should be in the hands of farmer who owns a brood sow, for once using of them will mean the saving of many times their cost."

That's pretty strong testimony is it not? Owing to the great demand for them we were only able to secure a few of these forceps at this time but we are going to give our readers the benefit of the purchase while they last.

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Send us \$1 for a renewal of your subscription to Kansas Farmer and 25 cents for express or mailing and we will send you at once one of these instruments. FREE.

# Circulation Department Kansas Farmer, Topeka, Kan.

out the poison is during the winter months or in early spring while the natural herbage on which the rabbits feed is scarce.

Remember to be cautious in the use of this or any other poison and remember to bury the d

The Effect of Manure.

The effect of manure has been tested at the Iowa Agricultural College with the following results: Corn grown the first year on untreated land produced 72 bushels per acre; on land where eight tons per acre were applied, 86 bushels. The influence of manure the second year from its application is seen in the yield of 49 bushels on untreated land and 67 bushels on the treated land; and the third year on oats, 53 bushels on untreated lund and 59 bushels on the manured land; and the fourth year, on the clover which had been sown with the oats, in that the yield on untreated land was only 1.8 tons per acre, while the manured land yielded 3.5 tons. It should be stated that this great difference in the yield of clover the fourth year from manure was due largely to the better stand secured on the manured land. The manure is applied on the clover sod just before it

is fall plowed to go into corn for the next year. This traces the effect through the rotation of four years, but hat is not all the effect of one application of manure.

#### Corn is Still King.

It is very doubtful whether there was ever been given so much thought and scientific, practical research to any known cereal crop as there has been to corn. Marvelous results have been achieved in increasing both quality and crop. The manufacturers of corn planting machinery have been doing all in their power to aid in this work, and to them some measure of praise is justly due. The Hoosier Corn Planter is one of the results of this painstaking work. Hoosier Corn Planters can be had in many styles, with and without fertilizer attachments. They can be had with shoe or runner, single disk of twin disk furrow openers. Also in round-hole, flat drop and edge drop plates. No matter what style of corn planter the user wishes to purchase, he can find it in Hoosier Corn Planter line. The Hoosier Corn Planter has many exclusive features. Every Hoosier Planter s sold under the most liberal of guar-

The Hoosier must and will antees. do all that the manufacturers claim. They are accurate, very simple, easily adjusted, strong and of light draft. Before purchasing a Corn Planter the farmer should write to the manufacturers, The American Seeding-Machine Co., Incorporated, Richmond, Indiana, for a Hoosier Corn Planter catalog. Then go to the retail implement dealer and insist on seeing the Hoosier Corn

The mule foot hog is being exploited in many localities on account of its supposed immunity from hog cholera. It has been found, however, that this variety of hog is not immune though he is much less likely to suffer from this disease than are other breeds. The mule foot hog is a "new" breed in the sense that he has only been bred in captivity a short time. Like other "new" breeds this one has the constitution of his wild ancestors and many of their tratits. He is a natural hog while the other breeds are purely artificial products of modern civilization. When the mule foot has been bred along modern lines for a few generations he will probably be subject to the same diseases that afflict his brothers.

#### This Wrench Takes Hold As Easy As It Lets Go The Keen Kutter Pipe Wrench never balks or hitches, never needs coaxing or forcing. It takes hold with the grip of a vise, and yet easily, without crushing. The Keen Kutter Pipe Wrench has a double action for gripping and relaxing and loosens quickly and cleanly on the back Pipe Wrenches are made from drop forged crucible steel. This is tempered and tested by expert toolsmiths. The teeth of this wrench can be sharpened. When they grow dull, a file will fix them. The jaws are strongly reinforced. The frame is nickel plated. The handle is a handful-swelled to fit the grip; it cannot cramp the hand. Look for the Trade Mark on the

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-E. C. SIMMONS

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FARM INQUIR



ANSWERED BY Prof.A.M.Ten Eyck

Cern Graders and Planters-Cane and Kafir Corn.

I see in the annual report of the station that experiments have been m de with corn graders and planters. Can you send me any information on the results of the experiments on this subject? Also have you any corn either at Manhattan or Hays that is early matured? Have you any corn bred by the ear row method? If so, of what varieties? I believe that an early corn might mature here before the dry weather affected it much. Also have you any Kafir corn or cane which has been bred for early maturity?-I. N. Farr, Stockton, Kan.

We have no published report of the testing of the corn graders and corn planters. The general results, however, favored grading seed corn as compared with planting the whole corn, tips and butts included. Also the results were favorable to the edge drop planters, these planters dropping more accurately than the round hole planters, especially with graded corn. With ungraded corn there was little difference in accuracy of drop, if anything, the results favored the round hole drop.

I am mailing you Press Bulletin No. 175, giving list of seed corn and other seed grain which we have for sale. You may secure seed of western grown corn from the Fort Hays Station, Hays, Kan. Address assistant superintendent, Geo. K. Helder.

Practically all of the seed corn which we are sending out from this station has been produced from the product of the high producing ear rows. This wel bred corn, however, may not be any better adapted for growing in Rooks county than other seed of eastern grown corn, since the corn will lack adaptation, and would have to be grown and bred, preferably by the ear-row method, for several seasons, in order to adapt it for your soil and climate. Some variety of westrn corn which has been grown for a number of years at the Hays Station or in counties west will give much better results with you for the first year's planting, but you might introduce well bred eastern varieties in a small way and by growing the corn for a few seasons and carefully selecting the best seed ears finally adapt it to growing in your section of the state.

You may secure seed of cane and Kafir corn also from the Fort Hays Station, which is more or less adapted to western conditions. We also have well bred seed of different varieties for sale, as given in Press Bulletin No. 175.

Green Fertilizer Crop.

I have about eight acres of land that I wish to treat with a green fertilizer crop. I have been thinking of sowing cow-peas and cane (mixed), plowing them under while green. How do you think this mixture would do? Can you suggest something better? At what stage of growth should the crop be plowed under to give the best results? Please give number of pounds or bushels to be sowed per acre, if sowed broadcast. The surface soil is black and thin, with a stiff clay subsoil, which I wish to break up and loosen as well as to fertilize.-J. M. Riley, La Monte, Mo.

I am mailing you Bulletin No. 160 on "Cow-peas." From my experience at this Station I would not advise sowing sow-peas with cane unless you sow a very small amount of cane, since the cane, if sown quite thick, will grow rank and smother the cow-peas. Cane makes a fairly good green fertilizer, but cow-peas are better for green manure, and I would prefer to sow the cow-peas alone rather than with cane. You might sow cow-peas with rape for green manure with good results, or rape planted or sown alone makes a good green manuring crop. We often use it for planting in the stubble after wheat harvest, plowing

it under in the fall and following with corn the next year, and have had good results by this method.

Where cow-peas are planted alone for green manure and sown in close drills or broadcast, it requires about a bushel of seed peas per acre. It requires only about a third of a bushel, or 20 pounds of seed per acre, for planting in rows, and by cultivation the peas may make as much growth planted in rows three to three and one-half feet apart and cultivated, as when sown broadcast and given no cultivation.

Cane sown alone requires from a half to a bushel of seed per acre, de-pending somewhat upon the quality and vitality of the seed. Rape may be sown broadcast or planted in drill rows, the first method requires from four to eight pounds of seed per acre. Two to three pounds of seed per acre is sufficient for planting in rows three feet apart. Usually we prefer to broadcast or drill the rape and give no cultivation. You will find these points further discussed in Bulletin No. 160, a copy of which has been mailed you.

Grain-Alfalfa.

I wish to know how we can secure free seed from the college of the pure varieties of grain. I also wish advice from the Experiment Station in regard to some alfalfa. It was planted three years ago on a piece of ground on the upland. There is half a stand in some places and none at all in others. I wish you would advise what is best to do with this ground this spring. Would you plant more seed on the same ground or plow it out entirely? If I have it plowed out. what kind of a crop would be best to plant? How would you prepare the ground for the crop? There are about ten acres of ground, and it is on a hill side, and not a very good piece of land.—Mrs. Annie E. Horton, Lucerne, Kan.

I am mailing you Press Bulletin No. 175, giving list of seed corn and other seed grain which we offer for sale. with prices, but would advise that you secure seed corn from the Fort Hays Branch Station, Hays, Kan. Address assistant superintendent, G. K. Helder.

We are not distributing free seed. having no available fund or seed for this purpose. We have been making some co-operative tests with a few farmers located in different parts of the state, but send only small quantities of seed for trial, a quart or two of corn and a peck of oats or other small grain, and really you should secure seed from the Fort Hays Station since our seeds are not well adapted for growing in western Kansas.

I am requesting the director of the Experiment Station to mail you Bulletin No. 155 on "Alfalfa." I doubt whether it will be advisabe for you to attempt to thicken up the stand of alfalfa on this old field; you had better seed a new field this spring, and later when the new field is established plow up the old one. Prefer to follow the alfalfa with Kafir corn or cane if you break up the field this spring; or if this field were plowed during the sum. plowed during the sum mer and well cultivated so as to pulverize and settle the soil, it may preduce an excellent crop of winter wheat. In this part of the state, however, we find it usually true that alfalfa ground is too fertile to grow wheat safely; wheat usually makes too rank a growth and lodges and fails to fill, but in your part of the state this is not apt to occur. The main thing which you will have to guard against is that the seed-bed may remain too loose and mellow, which is an unfavorable condition for growing wheat. I am mailing you Circular No. 13 on 'Dry Land Farming,' and Circular 9 on "Wheat Culture," in which the ideal seed-bed for wheat is described.

Timothy, Clover, Alfalfa.

I have about 40 acres of fairly level land which has been in corn too long for profit. It is upland and yet not very high as it is along the side of a ravine and comes near being second bottom. It has a few hardpan spots which are wet in a wet season. I have been advised not to risk alfalfa but to plant red clover and timothy. The ground was in corn last year but having had two years of wet weather, crops have not been good, as the ground could not be well cultivated and it became foul with weeds. Would you advise me to seed to timethy and clover this spring, or seed to some other small grain?

If seeded to clover and timothy what varieties would you advise?
What proportions of each should be

sown to the acre?
Would you plow the ground and then disk and seed with a planter, or

Tell me as briefly as possible how your experience would suggest to proceed, where I can get absolutely pure seed, and amount to use per acre.—N. W. Lauback, Topeka, Kan.

The land which you describe is perhaps better adapted for growing timothy and clover than for growing alfalfa; it would do no harm, however, to seed both crops, trying the alfalfa on a small area, preferring the better drained land for the alfalfa. Considering the foul condition of this land, if you sow timothy and clover this apring it may be advisable to seed with a nurse crop of small grain. Alsike clover with timothy will make the best combination for the wetter portions of the land, but on the higher land either the red clover or Mammoth clover and timothy may give larger yields, though the alsike with timothy is a good combination anywhere where these two plants are well adapted for growing. Sow about 8 to 10 pounds of timothy with 6 pounds of alsike or 8 pounds of Mammoth or medium red clover per acre.

It will be difficult to prepare a good seed bed for timothy and clover by plowing the land this spring. If any of the land has been in corn or any other inter-tilled crop and is fairly clean, or if the weeds and trash can be cleaned from the land it may be better to prepare the seed-bed by disking and harrowing, seeding about 1 to 11/2 bushels of oats per acre, sowing the timothy and clover after the oats are sown, either broadcast by hand or with the seeder attachment to the grain drill. A light harrowing after seeding the timothy and clover is sufficient to cover the seed. I am mailing you circular letter giving more detailed information regarding the principles of "Seed-Bed Prepara-tion." Am also mailing circular letter giving information regarding 'Grasses.'

#### Clover-Cow-Peas.

Please send me some good information on clover culture. I sowed ten acres last spring and in the fall it showed up only in patches. What de you think I ought to do with it?

I would also like to plant some cowpeas. Where could I procure the
right kind of seed to plant, and what
would a bushel cost? Which variety
is the best kind?—E. L. Gerardy,
Americus, Kan.
We have no bulletins on clover cul-

we have no bulletins on clover culture. If the clover is a good stand on part of the field it may be advisable for you to try to re-seed the bare spots early next spring, preparing the seedbed by disking and harrowing. Sow as early as the soil is in fit condition to cultivate. If the clover is a thin stand in the best parts of the field it will probably be best to plow it up and re-seed again or crop for a season and tow again a year from next spring.

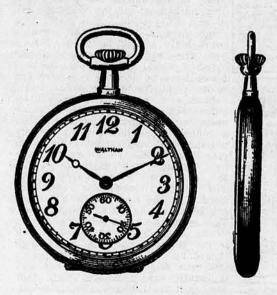
Another plan which you may fol-

low is to re-seed the clover field with grass early next spring, preterably nothy, or you may use English blue-rass or Bromus inermis. The setting of grass will establish a stand which will last for several years, if you prefer to leave the land in grass. I always recommend to sow grass and clover together, the combination is more apt to give a full stand, also the production of hay or pasture may be greater from the combination and the grass and clover is more permanent than clover alone. And the clover grass combination will do as much or more to improve the fertility of the soil as clover alone. Regarding grasses, seed-bed preparation, etc., I am mailing you a short circular on this subject.

I am requesting the Director of the Experiment Station to mail you Bulleun No. 160, giving information regarding "Cow-Peas." The seed of cow-peas is very scarce and dear this

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Hives and Bee-Feeding.

Now is a good time to prepare hives for use during the coming season. They can be bought cheaper now than later on. There are more Langstroth hives in use among the most extensive beekeepers of the country than of any other style. It is a movable comb hive and none but movable comb hives should be used. Where bees are wintered on the summer tand I would advise that the ten frame have be adopted in preference to an eight frame hive.

From now on many colonies will require feeding as stores are in many quire feeding as stores are in many cases running short. Probably quite a number of colonies have already perished of starvation. A syrup may be made from cane sugar by adding two parts of sugar to one of luke warm water. Stir until thoroughly dissolved. Feed it to the bees late in the even-ing so as not to attract robber bees. The syrup may be fed to them by lifting a comb out of the hive and laying it down with the comb cells turned up. Then pour the syrup into the cells from a small pitcher and in quantity nearly one pint every other day until fruit bloom comes on .- G. Bohrer, Lyons, Kan.

Foul Brood Again.

Permit me to supplement what ap-peared in the Kansas Farmer recently concerning the treatment of foul brood, whether American or European. Instead of shaking bees from the combs, I find brushing them off preferable, for the reason that in shaking the bees from the combs more or less honey is shaken from the shells, which is very liable to be taken up by bees from other colonies not diseased and carried into their hives, and in case it is American foul brood that is being treated, the bacteria is known to be in the honey and when carried into hives free from the disease they will at once become infected So that it will be seen that too much caution can not be observed in order that the spread of this terrible ailment may be prevented. I advised this pre-caution through the American Bee Journal, an was immediately endorsed by the A. T. Root Company in Gleanings in Bee Culture, and Dr. C. C. Miller of Marengo, Ill., who has been having a siege in stamping what he calls the European foul brood out of his apiary.

As to whether or not the bacteria producing the European or black foul brood is found at any time in the honey, is not at present well authen-ticated, but that it is a bacteria that causes it is not questioned. But let it be definitely understood that the bacteria producing American foul brood is invariably found in the honey of the colony affected by it. Hence, the only effective remedy is to remove the cause, which is the honey. To do this effectively all the combs must be removed with the honey. The honey may be removed from the comb by the use of a honey extractor and boiled for at least thirty minutes, when it may be fed back to the bees. Care must be observed not to scorch the honey when boiling. Scorched honey will kill the larvae or young bees not sealed over in the combs. The combs may be melted into wax, but care must be observed not to permit bees to have access to either infected honey or combs.

From quite an experience I feel well entrance of an infected colony at night when an the bees are in the entrance of an infected hive and remove it beyond the range of the bees in the apiary. About two miles is a good distance. Treat them there late in the afternoon so as not to attract the attention of any bees that may chance to be flying out of their ordinary range. In a day or two a colony treated at a distance from the apiary may be taken back to its old

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stand, as there will no longer be any danger of spreading the disease from such a colony. Unless the colony is a fairly good one, it will be the safest, surest and least trouble to burn both bees and honey and the hive also, except it be an exceptionally good one. Burn at night when no bees are on the wing. Have a good fire so as to be sure to let none of the bees escape, as they will have some honey with them, and will carry it to other colonies.-Dr. G. Bohrer, Lyons, Kan.

#### Beekeeping for Beginners.

From the fact that the honey bees have been a subject of deep study by our most learned men in every profession and age, and that apiculture has been successfully conducted by the ancients, it may sound strange when I assert that it has only been within the last fifty years that beeculture has been developed into a science. Before Huber conducted his observations in the hive, through his assistant, Burmens, the natural history of this wonderful little insect was very imperfectly understood; but since the invention of movable comb hives, the introduction of the Italian bee, honey extractors, comb-founda-tion, and numerous other appliances to facilitate apiarian operations an observations, the economy of the hive is now well understood.

Beekeeping, when intelligently pursued, affords more profit in proportion to the ca Ital invested, more pleasure and a greater field for mental exercise than any other of the small rural industries. Poultry keeping soon becomes monotonous. It requires no great amount of judgment to mate up your fowls, to gather the eggs, to set hens, to feed, and do all the other necessary work. It soon centers down into a sort of routine task; but not so with beekeeping. Here every day gives us some new problems to contend with. It is one of nature's grand novels, where the plot is so well laid that the farther you read the more deeply you become interested in the subject.

Beekeeping is like any other business in that it is subject to failure and success. It does not follow, neither can it be expected, that every one who takes hold of it is going to make a success of it. In this business there is no such thing as that abstract something called "luck." abstract something called "luck." Luck in bee culture is always measured by "pluck" and by an observ-ance of all those conditions upon which its successful prosecution depends.

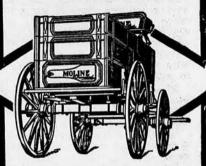
Bees can not gather honey unless there is nectar in the flowers; and the nectar secretion is dependent upon certain atmospheric conditions for its full development; or, in other words, the season must be favorable for the production of a good honey crop, the same as a full crop of wheat, corn, alfalfa, or any other of the farm crops.

While it is true that bees "work for nothing and board themselves," it is also true that in order to secure the best results, it is necessary that the labor of these industrious little in-sects be directed by the intelligence and knowledge of the beckeeper. No one can keep bees profitably without a thorough knowledge of the economy of the hive. He must know what to do, how to do, and when to do; for pertaining everytning must be done just at the right time.

Along with the purchase of bees, hives and supplies, the beginner should get books treating on the subject, and should subscribe for one or more bee journals, and read up and thoroughly study the question as he progresses. He will in this way combine theory and practice and as he proceeds will become proficient and expert with all details of management and manipulation, otherwise he will find it an uphill business attended with no profit .- J. C. Frank, Dodge City, Kan.

Where there are numerous earth worms there is plenty of humus in the soil. Where there is plenty of humus alfalfa will grow. Earthworms can thrive only where there is humus in the soil and their presence will determine whether it would be likely to prove good alfalfa land.

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Plant Boettcher's Early White Dent, the result of 12 years' careful breeding. Seed all gathered before the freeze. A yield of 80 bu, per acre is not uncommon. 500 bu selected, graded and shelled. Price \$1.75 per bu. These prices f. o. b. cars. Order

Holton, JOHN F. BOETTCHER, Kansas.

Agreement Between Landlord and Tenant in Wisconsin.

It will be interesting and instruc-tive to Kansas farmers to know the kind of a farm lease used in Wisconsin. The copy presented herewith is varied to suit conditions. Hoard's Datem in says this lease has been in use for six years and has proven sat-isfactory to the parties interested. Should Kansas Farmer readers be in need of a lease form it is believed that this will be a sufficient general guide for reducing agreements to writing. This paper does not believe that a farmer—or any other man not a lawyer—should be his own lawyer. It is usually cheaper in the end to employ a good attorney to draw the farm lease.

Memorandum of Agreement between lessor, party of the first part, and \_\_\_\_\_, lessee, party of the second part:

The party of the first part leases to the party of the first part leases to the party of the second part for the term of one year from and including the — day of — , 1910, the premises known as — Farm," situated in the town of County of — State of and more particularly described as follows:

follows: and in connection therewith the fol-

lowing personal property: and is to receive as rent therefor one half of all the products raised on said premises, except hay and grain fed to stock, one-half of all the increase in number and growth of stock, one-half of the returns from creamery for milk and cream, one-half of the in-crease and product of peultry, and, in general, of all the gross receipts re-sulting from carrying on said farm whether herein specifically mentioned or omitted, as is to be to no other further expense in connection there-with, except to pay the general state, county, town and school taxes, furnish what new material may be required for repairing fences and exterior of buildings, such grass and clover seeds as he may wish to have sown, and one-half of all the feed which it may be necessary or expedient to purchase for the stock.

The party of the second part takes and leases the said farm and per-sonal property in accordance with the foregoing provisions and undertakes and agrees to make his occupation and use of the premises as profitable to the lessor as may be, and especially to take good care of the stock and to take good care of the stock and other personal property and return same to the lessor in as good condition as when received by him, ordinary aging and use and damage or calamity by fire, floods or lightning excepted; to carefully use house and care for all machinery, tools and implements, and keep same in good repair: to furnish all seed except grass pair; to furnish all seed, except grass and clover, and all labor and team work necessary to carry on the farm in a proper manner; to work cit or pay all highway taxes; be at all expense for threshing and filling silo; to account for and pay for or replace all. account for and pay for or replace all hay and grain that may be on the place when he takes possession; see that all fences are kept in reasonable that all fences are kept in reasonable repair; leave all buildings in as good condition as when surrendered to him, natural wear and damage by the elements excepted; not dispose of any straw or other forage by removal or sale without lessor's consent; haul out and spread all manure and carefully in all things conferenced. fully in all things safeguard and promote the interests of the lessor as well as his own, without regard to whether the particular items are whether the particular i herein set forth or omitted.

The lessee further agrees to leave as much land plowed as is now plowed, and the farm generally in as good or better condition as it is at present; to deliver at market all stock or produce sold and take milk and cream to creamery.

The .essee is permitted to furnish additional stock, the product, growth and increase of same to be equally divided between the lessor and himself.

This lease may be continued from year to year at the pleasure of the parties hereto, but may be terminated at the expiration of any year by either party giving to the other three months' nouce in writing of his wish to have the same end.

In witness whereof the parties have hereunto subscribed their names and affixed their seals this — day of-

-(L. S.)

In presence of

The Stark Year Book

is ready to mail. It will be sent to any person interested in fruit-growing on receipt of 7 cents to cover postage. The Stark Year Book for 1910 represents an entirely new idea in nurserymen's literature—it is a work of art as well as a catalogue of Stark Nursery products. Within its covers are 32 full-page illustrations of fruits and flowers, representing 175 varieties, done in four colors, and exactly reproducing nature. 84 pages are devoted to descriptions, prices, and records.

Stark Delicious, the apple that has revolutionized orchard planting and established a new standard of apple values (selling at \$10.00 per bushel box this year); Stark King David, another apple of wondrous quality and merit; Stark King Philip, a hardy black grape of California grape quality, and dozens of the very best things in the horticultural world are fully described, illustrated, and priced.

To any one planting one tree or many, of fruits or ornamental, this book is of

To any one planting one tree or many, of fruits or ornamental, this book is of inestimable value—a horticultural text-book—a guide to proper selection.

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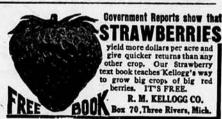
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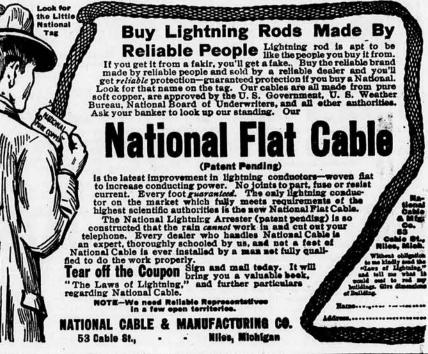
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# HORTICULTURE

By planting Pecan trees among orchard trees of shorter lived fruits, it is entirely practical to carry on extremely profitable operation on land Setween the trees, and at the same time be growing a Pecan grove that will be worth, by the time it needs all the space, fully \$2,000 per acre.

As to the food value of nuts, scientists are more and more advocating their use as food for the human body. since they average from 15 to 33 per cent protein and from 70 per cent fat, thereby proving a natural substitute for meals and much cleaner and healthier nature. The nutritive elements of nuts are better perly; eaten, they are as easily dibalanced than of meats, and when pro-

The red cedar and apple trees do not agree. The red cedar is infested by a fung is, which makes the reddish jelly-like cedar apples in the spring. These are masses of the fungus spores which are carried by insects and wind to the apple trees, where they cause peculiar swollen and hairy places on the leaves and fruit, known as rust. Apple trees and fruit can be totally destroyed by his rust. The best remedy is to make Christmas trees out of the cedars.

Spraying Orchards.

"There is nothing new under the in." 'This is true of spraying. While sun." orchardists of the present day are inclined to consider themselves the leaders, if not the pioneers, in spraying and combating all manner of in-sects and fungi, a glance backward will show that the practice is not by

any means new.

In the year 1629, John Parkinson, writing on "The Ordering of the Orchard," says: "The canker is a shrewd disease when it happeneth to a tree; for it will eate the barke around, and so kill the heart in a very little space. It must be looked into in time before tt hath runne too farre; most men doe whelly cut away as much as is fretted with the canker, and then dresse it, or wet it with vinegar."

To those familiar with the blight canker of the apple and the present method of treatment, the above will appear good advice, even if it comes over a distance of two hundred and eighty years. It is true we now use corresive sublimate or copper sulfate as an antiseptic instead of vinegar, but the suggestion that "it must be looked into in time before it hath runne too farre," is most excellent.

DISCOVERY OF BORDEUX MIXTURE

SPRAYING. In Europe the French vineyardists were the first too look for remedies for the control of the vine mildew. Various drugs were recommended and used, but the problem was finally solved quite by accident and as fol-lows. Vineyardists in the vicinty of Berdeaux (France) had suffered con-siderable losses by the theft of fruit frem vines growing along the high-ways. It had been the practice for many years previous to 1882 to sprinkle the fruit with verdigris so that it might have the appearance of being poisoned. In 1882, for reasons of economy, certain growers substicopper sulfate and were astonished to note that the vines so treated were free from the downy mildew. Cut of this accident grew the Berdeaux mixture, the most valuable remedy known for the treatment of fungous diseases of plants. While we have borrowed most of the remedies which we now use from France or Germany, much of the early development of spraying can be found in this country.

It is with considerabde pride that Wisconsin horticulturists refer to the record of the late Prof. E. S. Goff in the ploneer work of spraying.

The first systemanc trial of Paris Green as a remedy for coddling moth was conducted by Goff at Geneva, N. Y., in 1885, as was also the first experiment for the control of apple scab. in the latter case hyposulfite of soda was used.

While it is true that we in the

United States have not added materially to the list of remedies for the control of insects and disease of plants, and while it is true that the Bordeaux mixxture for fungi and kerosene for insects comprise about our entire list, much has been done in the development of special formulas. Our Experiment Station scientists have also laid bare the life histories of the plant pests, the first and most important step in their intelligent con-

My personal introduction to spray-ing was in 1891 at the end of a short pump handle, one of the first spray pumps, the old Nixon tripod, in a large orchard in the southern part of Wisconsin and the blisters on my hands were more numerous than the barrels of spray we put on the trees daily. But for all this I was kept steadily at my task of working the pump handle and I conluded that spraying must be very important or I would get a rest, so I watched closely for results for I had a dream of an orchard and some one else getting the blisters. And sure enough, when harvest time came, the results were very evident. the apples were freer from worm and scab than where they were not sprayed. And so I saw in the future some one else working the pump handle while I held the spray rod.

It was at this time that Professor Goff was carrying on the experiments in spraying with Bordeaux mixture te determine its efficiency as a fungicide. It was used very much stronger than we use it now and it was found to be no better.

A COMMONLY USED SPRAYING OUTFIT. The most commonly used outfit of today is the hand pump fitted to the end or side of a barrel, according to the style or make of a pump, and mounted on a stone boat, cart of wagon, to suit the user. If goed judgment is exercised in the selection, very satisfactory results can be obtained.

Care should be taken to select pump made of brass with a good agitating device and one that has sufficient power to produce a fine spray with the least amount of labor.

The power sprayers are of severa styles and are much superior to handpower, barrel or tank pumps. When orchardist's interest warrants, a power pump should be used by all means.

All pumps, no matter what style, should be fitted with the best hose of proper length and for tree trufts an extension rod of six or eight feet long is very convenient.

The nozzle is perhaps the most important part of the spraying outfit. The Vermont type is the best and should be used.

MAKING THE SOLUTIONS.

For making the solutions, procure a barrel, cut it in halves, using onehalf for blue vitrol and the other for lime water. If much Bordeaux is to be used, it is well to have more barrels in which to keep a stock solu-tion of vitrol and lime to save time in getting the mixture ready. Always use wood or earth in vessels for blue vitrol.

For large orchards, an elevated platform fitted with plenty of tanks der to do the work economically, having a good supply of water which can be gotten into the tanks without the necessity of hand pumping.

Bordeaux mixture is perhaps the most valuable remedy known for the treatment of fungous diseases of plants. That there will be others in the near future I have little doubt.

The lime-sulfur wash bids fair to become a valuable fungicide, as well as valuable for some of the insects that live on the sap of the tree, such as San Jose scale, which it will completely control if properly and per-

sistently used.

Arsenate of lead is the best insect icide in use today for all biting in sects, and should be used in spraying instead of Paris green. It is safer, being less danger of injuring the foliage where it is used. Our desire in using any poison is to kill something

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and arsenate of lead is sure to bring results. It adheres to the foliage better and can be used in much greater strength, exercising care in putting on only sufficient spray to cover the plant or tree and avoiding any great amount of drip, thus reducing the possibility of poisoning the land, if there is anything in the recent statements that such is the case where spraying is overdone, which it seldom is.

The formula of Bordeaux is as fol-

Four pounds of blue vitrol, 6 pounds of fresh stone lime, 3 pounds of arsenate of lead, 50 gallons of water.

Put 25 gallons of water into each of the half barrels previously provided and dissolve the blue vitrol in one and strain the slaked lime in the other. Add the arsenate of lead to the lime water and pour both solu-tions into the spray tank at the same time. Now you have the complete Bordeaux arsenate mixture, which is the most widely used of all spray mixtures and controls the fungous dis-eases as well as insects that attacg the foliage and fruit.

Should you wish to spray plums, it is a good plan to dilute the mixture somewhat and add about three pounds more lime, making what is called peach Bordeaux.

Three pounds of vitrol, 9 pounds of lime, 50 gallons of water.

The first application is made at the time buds are bursting and should be done thoroughly. The second application should be made as the blossoms fall and the third in ten days to two weeks later, the fourth about August 1 to 15. Should it be very rainy, it may be necessary to spray oftener, or in case of bitter rot on apple, then we should keep spraying till late, or till danger of disease is past.

Apple scab is perhaps the most troublesome of the fungous diseases in Wisconsin and four applications will be almost certain to control it if the work is well done. Sometimes two applications will be sufficient.

To control coddling moth, three or four applications will be necessary for the best results and the late spray does very much towards keeping in check the second and third broods.

For oyster shell bark louse, use some of the soluble oils when trees are dormant.

After careful estimate of spraying, I find that for trees averaging eight years planted, the cost is about eight cents per tree for material and labor, three or four applications with hand pump; some less with power machines.

Very few commercial orchards in the state are receiving the thorough spraying they should in order to produce apples as perfect as it is possible to produce in Wisconsin, and still many are returning their owners good profit. But there is still chance for improvement. More application and applied with higher power and applied in a more thorough manner are the things we ought to be considering, closer observation of the time to apply the spray to be sure to pro-tect rather than try to remedy or cure.

If you have no spray pump at your command, you can get a cheap one that will do to spray a few trees, any pump that will give force enough to produce a fine spray. You cannot produce results by forcing the solution into the tree in streams. It must coat over all fruit and foliage, leaving no space unprotected for the best results, and results are usually in proportion to the thoroughness of the

The profits directly due to spraying can be easily figured by observing the are sprayed and makorchards th ing a comparison with those sprayed. The profits are very marked in the case of the cherry. It is ex-tremely doubtful if cherries can be grown in Wisconsin to any extent without thorough spraying. And while apples can be grown in many seasons without spraying it is a fact that they cannot be produced at a profit through a period of years without the aid of Bordeaux. It has been done in a few instances however.

The profits cannot be figured en-

tirely in the fruit produced, but much good is done the tree by keeping healthy foliage, enabling the tree to produce strong, vigorous fruit spurs and buds and also to be in condition to stand more severe co.

Of course spraying will not de all, but when combined with cultivation and fertilization we are getting nearer the right way to grow good fruit.— O E. Bingham, Sturgeon Bay, Wis.

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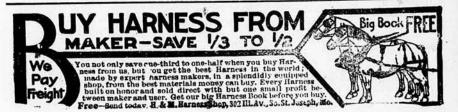
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CIRCULATION DEPARTMENT OF KANSAS FARMER. Topeka, Kansas.

# POULTRY

Fowls are very fond of milk and thrive upon it. Milk in any form, sour or sweet, will bring in better returns in eggs than in any other way it can

The hens have been laying so well lately that several breeders in this locality have already set their incubators agoing and many more are talking about doing so.

While it is a good thing to have early chickens, still there is such a thing as having them too early, especially if a spell of cold weather comes when they are only a few days old.

Wheat furnishes more material for eggs than corn. A bushel of wheat contains about one-tenth more protein than corn but about one-half less fat. So to fatten fowls feed corn and for eggs feed wheat.

The best laying hens should be picked out early in the season and the eggs from such hens be set to the exclusion of the eggs from the general run of the flock. Only by such means can the average stock be improved.

A farmer that has only the common flock of poultry should endeavor to grade up the 'ock by purchasing a pure bred male of some of the utility breeds and cross on his stock. The first season's progeny will pay the price of the pure bred male.

It is a good plan to provide plenty of nests for the hens to lay in. there are not sufficient nests the hens are apt to quarrel and fight for their possession and in the scuffle eggs are apt to be broken. Then the hens eat the broken eggs and the egg-eating habit is formed.

During these sudden cold snaps that we are having this month the combs of the male birds are liable to be frozen. To get the frost out the best thing to do is to bathe the comb with snow; if snow is not available take cold water and bathe for quite a while then anoint with glycerine. It becomes necessary at times to bathe the wounds and sore places on some of the fowls. Nothing is better than a few drops of laudanum in a teacup of water, this is both cooling and healing. Tincture of myrrh is also recommended, about a teasponful to a half pint of water. Compound tincture of aloes, commonly known as "proprietatis drops," is very useful, similarly diluted as is tincture of per-chloride of iron, "steel drops," the last named unchitted, having the reputation of being a good thing to stanch blood ficwing. If proud flesh shows itself around any wound apply a little burnt alum, or if burnt alum is not handy a little white or powdered iump sugar is a good substitute.

About That "Free Egg" Proposition.

When the poultry department of the Kansas State Agricultural College made the offer two weeks ago of free settings of eggs to the farmers of Kansas, it never dreamed of the consequences that this offer has brought. The offer was made by a little notice in the newspapers to the effect that "the poultry department of the Kansas State Agricultural College is desirous of sending out over the state, eggs from pure bred poultry, free of charge. Anyone wishing to take advantage of this opportunity to add some pure bred stock to his present flock should addiess the poultry department, Kansas State Agricultural College.'

Now that little notice appeared in the newspapers about the time the price of eggs was scaring around the highest pinnacles, consequently it was read by everyone who reads newspapers, especially as the editors made it conspicuous by placing it under head-lines like, "What, Eggs Free of Charge?" or "K. S. A. C. Giving Away

Hence it came about that the ink of these press notices was hardly dry before the inquiries came pouring in to the poultry department concerning those "free eggs." From all over

the state at first the letters came flooding in, and later this onslaught of questioning missives from Kansas was added to by delegations from Oklahoma, Texas, Missouri, Colorado and other states. It became a national affair. The letters came at the rate of about 500 a day. Finally, as the number of inquiries rapidly approached the 4,000 mark, and as hundreds of letters were arriving every day, the philanthropic poultry department, re-alizing that it would be almost impossible to even answer so many letters, and certainly impossible to supply so many farmers with eggs, hurried off dispatches to the newspapers, stating that the department was swamped with requests for the free settings, and requesting that no more inquiries be sent in.

The object of the department in making this offer was threefold: first to give the farmers a chance to ket a start with pure bred chickens: second, to enlarge the College flock; and third, to get the names of the farmers who are interested in poultry raising. The desire to get a list of farmers interested in poultry raising has certainly been satisfied, and the prospects for the realization of the

other objects are bright.

A force of six stenographers attacked the pile of letters and postal cards, and for several days were busy with these interrogations. The universal question was, "How can we get them?" And the department ap swered this by sending out 2,500 re plies stating the conditions under which the free eggs would be sent out. It was impossible to answer more queries except by postal cards, telling them that their requests had been received too late. Farmers who al-ready have good pure stock will not be supplied. Here are the conditions that the farmers must agree to before the eggs will be sent to him: must agree to keep a record of the fertility and batchibility of the eggs, and give one chicken out of every four raised to September 1, to the College.

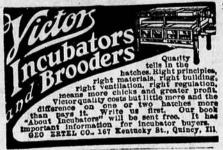
The majority of the letters received were from farmers who wanted to get the free eggs for the purpose of im-proving the stock of their flock, but a good many of those who wrote were merely curious, and showed a "some-thing for nothing" spirit. Some, per-haps city people, doubtless nought this an excellent opportunity to get eggs for table use. It seemed much more convenient than paying 45 cents amusing. One woman sent her photograph, for what reason she did not say, presume bly to insure her being "on the ground floor." Several other writers asked that they might be favored with "thoroughbred College ored with eggs."

Many applications from those who have agreed to the conditions, are coming in row, and the eggs were shipped Feb. 15.

How To Build a Poultry House. In a bulletin issued by the Colorado Agricultural College a poultry house

for 100 hens is described as follows: Successful poultry raising and egg production go hand in hand with good care and shelter. For profits in the business, it is as necessary to house the poultry as it is dairy cows or good driving horses. Very small profits come from those flocks that roost in the trees or perhaps on the farm implements in an open shed. Fresh air is necessary, but it must not be given in such large doses, especially during the winter months. The hen that roosts in the open during the winter uses all her food to keep her body warm. If the poultry pusiness is worth doing at all, it is worth doing right. If it is done right, the flock must be sheltered.

KINDS OF SHELTER.
The poultry house can be successfully constructed of almost any kind of material, as lumber, brick, stone, adobe, sod, or cement. It does not need to be expensive. Many of our fanciers put too much money into buildings. All that is necessary is that the houses are warm, properly ventilated and well lighted. The wall does not need to be doubled, provid-



ors; stock and egg circular free. Chas. Bex 24, Blair, Neb.

BARRED ROCKS—Bred for beauty and profit. 33 premiums. Stock for sale. Eggs for hatching. Address Mrs. D. M. Gillespie. Clay Center, Kan.

HIGHEST SCORING S. C. R. I. Reds in southern Kansas: eggs now ready, nicely sacked for shipping, \$1 50 for 15. J. D. dite, Mound Valley, Kan.

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

100 S. L. WYANDOTTES.

Cockerels and pullets from birds that win St Louis and Kansas State Shows. Broughton, Kan. M. B. Caldwell,

BUFF COCHINS. For sale, cockerels, \$5 up. Females \$2.50. Tries, \$10.00. Won 27 prizes 1909. J. C. BAUGHMAN,

S. C. R. REDS-First pen headed by first cockerel at Kan. state show; 2nd by winner at Mo.'s best show. Eggs from either pen. \$3 per 15. Third pen, \$2 per set ing. DeLoss Chapin, Green (Clay Co.), Kan.

BARRED ROCKS—High class Show and Utility Stock, Pen eggs, \$3 00 per 15; \$5.00 per 80; utility, \$4.00 per 100. Send for cir-sular. No stock for sale. C. C. Lindamood, Harvey Co., Walton, Kan.

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

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

EGGS FOR SALE

From fancy S. C. Buff Orpingtons. Pen 1, \$3 for 15; pen 2, \$2 for 15; farm range, \$1 for 15; incubator rates, \$5 per hundred. MRS. S. T. WHITE of WHITE BROS., R. R. No. 1, Buffalo, Kau.

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

D. W. YOUNG STRAIN
of S. C. White Leghorns, prize winners at
three State Shows. Eggs \$1.50 for 15; \$6
per 100. Barred Rocks. "Ringlet" strain, \$2
for 15 eggs Eggs packed with care.

for 15 eggs Eggs packed with C. H. McALLISTER.

S. C. BUFF LEGHORNS.

No more stock for sale, but eggs from prize winners. Pen 1, \$2 per fifteen; pen 2, \$1.50 for fifteen. Incubator lots, \$6.00 per hundred.

hundred.
CEDAR GROVE POULTRY FARM,
M. KLEIN & WIFE, Props.,
Kansas. Clay Center,

EGGS EXTRA WELL PACKED.
\$1.00 for 15: \$5.00 per 100, From White
Faced Black Spanish. Leghorns, Wyandottes,
Books, Rhode Island Reds, Light Brahmas,
Black Langshans and Black Tailed Japanese Bantams Each bred on separate farms.
Circular free.
H. W. CHESTNUT,
Kausas.

EGGS, CHICKS.

S. C. White, Brown and Buff Leghorns and R. C. R. I. Reds Bred from heaviest laying and winning strains. Eggs for hatching, and day-old baby chicks. Book your orders now for future delivery. Write for circular and prices.

PROSPERITY POULTRY FARM,

Route 2,

LOOK! LISTEN!

Dont wait until the last minute to order your Ckis. Some of my breeds are sold out new. I still have a good supply of S. C. White and Brown Leghorns, S. C. White Minorcas and B. P. oRcks. Get busy. Order now. Price \$2. Address

WALTER HOGUE,
Fairfield.

TWENTY-ONE VARIETIES TO SELECT FROM.

Won \$1,500 in cash prizes this season at American Royal, Fratt, St. John, McPherson, Larned, Hutchinson, Electric Park, Enid, Garden City, Shawnee and Kansas State Poultry Show, Wichita, 1910. Stock from 3,600 eggs to select from. Write MR, AND MRS. OTIS II. CROW, Hutchinson, Kansas.

Tenneholm Farm Black Langshans A LOT OF GOOD COCKERELS FOR sale, Prices reasonable, Eggs \$1.50 for 15.

MRS. E. S. MYERS,

Chanute,

Kansas.

WE LAY FOR YOU

Smith's Earred and White Rocks. Send for mating and price list OHAS. E. SMITH, Rayneville. But S. Kaness.

#### PARTRIDGE WYANDOTTES.

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

Arkansas City, Kan.

ing the single one is tightly constructed. With the frame house, one thickness of good matched lumber, such as drop siding, flooring or ship-tap, is all that is necessary. It is a good plan to build the outside wall or some of the cheaper materials than the matched lumber mentioned, such as barn siding with battons, and then lath and plaster on the inside care-funy line it with building paper, preferably tar paper. This makes a warm house which is somewhat more expensive than the single walled house, but does not present so good an outside appearance.

For a good, cheap house, one that presents a good appearance, there is nothing better than the single wall, covered with drop siding. This house is warm enough for almost all western conditions. It can be cheaply and easily made warmer by lining it with heavy tar paper, holding the paper in place with lath.

Houses may be constructed of brick or cement, but usually these materials are too expensive.

FORM OF HOUSE.

Make the house large enough. Make it wide. Too many houses are now being constructed which are entirely too small and narrow. In the narrow house the chickens are required to roost too close to the windows. The wide house meets a double requirement. First, the roosts can be placed away from the doors and windows; second, scratching space is provided in the same house and a special scratching shed is not necessary.

A house large enough for 100 laying hens should be from 12 to 16 feet wide, and from 20 to 25 feet long. The roof should slope to the north and all openings placed on the south side, with the exception perhaps of s door, which may be placed in one end. Make the back wall of the house 41/2 to 5 feet high and the south one from 7 to 9 feet. Then place the windows high so the sun's rays will fall well back upon the floor.

The roosts are then placed on the back one-half of the house, running parallel with the length of it. This gives the front one-half as a scratching and feeding space. Place the roosts all on the same level, about half way between the ground and the roof. A 2x4 set on edge with the upper edge rounded makes a good roost. Place roosts from 12 to 15 inches apart and from 8 to 12 inches above the dropping board. It is a good idea to place the roosts on a frame which is hinged at the back so they can be raised and thus make the dropping board easier to clean.

NESTS.

Make the nests in sections with the passageway and the only entrance on the back side. Place them in the house with the open side to the wall or under the dropping board with the open side to the rear. This makes a dark nest and prevents egg eating. A drop door can be arranged in the front side of the nest through which the eggs may be gathered.

Fresh air is absolutely essential at all times. Ventilator shafts are expensive, hard to construct, and give poor satisfaction. The air can not be well regulated to suit the occasion without almost constant attention. During the past few years a betmethod of ventilation has been tested and is now being successfully used by many poultry breeders. This better method consists in constructing the north side and the two ends of the house without openings. Then place all openings on the south side, and instead of using glass windows, cover the openings with heavy canvass or burlap. This will allow a free passage of air in and out, thus purifying the inside air and at the same time will not allow a draft on the hens. This method of ventilation is to be recommended. The ventilation of houses already constructed can be greatly improved by removing part of the sash and covering the opening with canvas or burlap.

Concerning the Game Law.

l was glad to read your remarks about the game law of Kansas, not because I fully agree with you, but because for a long time I have been anxious to give it a shot. I would be a friend of a law that protects game which needs protection, but this law does not, and only deprives the settler and homesteader of meat that the Almighty has sent to his door and which he often sorely needs, and then allows the "sportsman" to come from the cities and ruthlessly destroy more game in a day than the farmer

on whose ground they feed will kill

for his table in a season.

Think of a dozen sportsmen coming out and killing 15 or 20 birds each day for the five weeks between Christ-mas and New Years, with a license of \$1.00 each. Then if a game warden should catch a farmer's boy out shooting a prairie chicken for his Christmas dinner, without first paying \$1.00 for the privilege, he would want to drag him into court and fine him \$5.00. would not be the one to try it.

If you quote the law correctly it is even worse, for you to say no one is allowed to hunt or shoot in Kansas without having secured a license. Now our county commissioners, seeing the ravages made by jack rabbits offered a bounty for scalps to encourage their extermination. The law that proextermination. hibits such self-protective measures or even requires the expenditure of \$1.00 before allowing the exercise of such act of self protection, or even allowing one to appropriate the wild fowls for meat, is unconstitutional, as it is against reasonable appropriation of the natural and rightful food for my own use and then allows it to be ruthlessly destroyed simply to furnish sport for the blood-thirsty sportsmen.

Several years ago our son came with his family to spend the holidays with us, and brought his shot gun all the way from Minnesota so we could have a rabbit hunt. But no, even \$1.00 apiece could not secure us that privtelge for as he was from another state it was \$15.00. Since then I have been down on such laws. If we protect our game I say do not kill them at all at any price if they need to be protected, and I think they do. But put a stop to useless slaughter of all birds, anu let the farmer exercise his lawful right of self preservation and self protection.—S. E. Barton, Gray Co., Kan.

Mr. Barton is evidently misinformed about one or two of the provisions of the game law. In the first place, the law does not allow sportsmen to come from the cities and kill game of any kind upon Mr. Barton's land or in the public highways adjacent to it, without first obtaining his written permission. In the second place, no one is allowed to kill quail between Christmas and New Years, as the quail season ends on December 15. In the third place the law does not require a man to secure a license in order to hunt on his own land, and there is no law protecting jack rabbits or cotton tails at any season of the year. We have allowed space for Mr. Bar ton's letter, but suggest that he call at some lawyer's office and read the text of the law carefully. As stated in our former article, we believe that this law needs changing, and hope that Mr. Barton and all other good citizens will help to change it if needed and will unite in enforcing it just as long as it remains a law on the statute books.-EDITOR.

Timothy hay is worth more than it Many men stick to timothy is worth. because they were raised that way. A few pounds of alfalfa is worth a load of timothy and there is no animal on the farm that will not do better on it if it is fed properly. One of the largest breeding establishments in Kansas raises its heavy draft horses on alfalfa hay and pasture. By mixing a little brains with it alfalfa has never been excelled as an all round

Opinion is divided and probably always will be divided on the question is which is the most profitable farm animal to raise. Many believe the horse brings the greatest profit, others tie their faith to the beef breeds and still others to the dairy breeds of cattle, but it seems that the friends of the hog are in the majority. hog requires more care at times than do some other animals but it is wonderfully prolific, and if the quality and breeding are right it is easy to make a market for the animals produced and the farmer has the advantage of turning his money over more rapidly and more profitably in hog breeding than in percaps any other kind of animal production. Of course there are many risks to assume as the modern hog is a purely artificial product and subject to humors and diseases which would not come to it in its wild state. The investment of a moderate sum of money in a few brood sows in the spring will make a man a hog breeder within a year; whether bred as a specialty or as a side line the hog always gives a good account of himself,

# Let Me Send You a Queen



I am very much in earnest. want to send you a Queen Incubator to try. If you'll spend a cent in writing for my Incubator ook, I'll spend many times that much in furnishing

If you'll say you want to try a "Queen," I'll say "Go ahead and use it three months, and here it goes, freight prepaid."

goes, freight prepaid."

Then I'll go on and say, "Examine the Queen—
comrare it with all other makes—consider its highest percentage of hatches and the lusty, healthy
chicks you get—how perfectly it runs and regulates
itself—the oil expense it saves you—its absolute
safety—and the s year guarantee I give you.
You can't get Queen results with anything but a
Queen. I want you to learn this at my risk."

Thai's the fairest squarest offer I know how to

That's the fairest, squarest offer I know how to make. Send the postal now that gets my Catalog and Liberal Plan.

WICKSTRUM, QUEEN INCUBATOR MAN, Lincoln, Res.



\$10.15

FOR THIS 100 EGG FIREPROOF AUTOMATIC.

BROOD|ER-INCUBA|TOR or two for \$19 80, with all fixtures com-plete. Freight paid east of the Missis-sippi. Special rates further west. A TWENTIETH CENTURY WONDER.

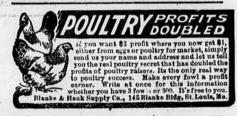
A TWENTIETH CENTURY WONDER.
HATCHES and HOVERS like a LIVE
HEN. One Regulator. One lamp
Saves ONE HALF operating expense.
FIRELESS BROODER ATTACHMENT.
Practically FOUR MACHINES IN ONE.
POROUS VENTILATING SYSTEM
80 per cent hatches GUARANTEED. 40
or 60 DAYS TRIAL. A GOLD MINE
ON ANY FARM.
Order direct and save time of send
for FREE BOOK "777." fully describing
this remarkable invention. Address,
NEW METHOD INCUBATOR CO.,
218 West Main St. Morrow, O.

EGGS. BABY CHICKS. S. C. Orpington, Rose Comb Reds, Rose Comb White Leghorns. Mrs. Lizzie B. Griffith, R. 4, Emporia, Kan.

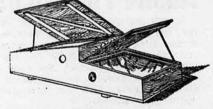
The City Man Says eggs cost more each year.
This is true, yet thousands and thousands of city folk keep poultry to produce the family supply The raising of poultry and the production of eggs increases each year. The demand grows faster than the production. Result—

THE PRICE GOES UP

The poultry industry has greater possibilities than ever before and it's profitable on either smail or large scale. Geo, H. Lee has been a poultry raiser for 25 years and invented appliances he couldn't buy. The same mechanical means that he perfected are used by successful poultrymen everywhere. Lee's "Chicken Talk" is a book written by him. Valuable. Free copy, and 1919 Incubator, Brooder and Poultry Supply Catalog mailed postpaid. Ask for it to-day. Geo. H. Lee Co., 1137 Harney St., Omaha, Neb.



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### Stevens Fireless Brooder

Pat. applied for.

Cut out this advertisement and receive full information concerning the very latest invention in brooders and be credited with \$1 on the purchase

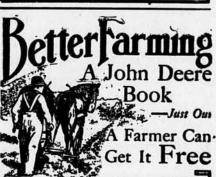
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Town												
County.						•					•	•
State.												

F. W. STEVENS. 9th and Hillside Ave., Wichita, Kan.

Dr.HESS DIF

Be A Motorman Double Your Pay
We teach you at home by mall for
the good paying prefession of Electric
Motorman or Conductor with a fow
weeks study in your spare time. The
work is steady the year round, the **Hundreds of Positions Open** 

right now waiting for our graduates. This of by Electric Railway Hanagers all ever the a want a good paying position with a brigh lay for new Free Catalog and full information School, Ben'l., Office 353 Freepert, Ill.



IF interested in farming, get our FREE book called "BETTER FARMING." It tells all about-

Alfolfa Dairving Roll Wasvil Controlling Weeds

Making Hay Pighting Frost

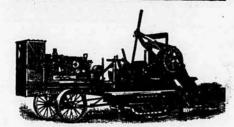
#### Hired Help Costs Big Money

Your land is high priced and hired help expensive.

There is only one way to make hig money—use implements that cut down the cost of your crops. Isn't it true that when you break something on a plow it is nearly always a cast part? Wherever strain comes on a John Deere Plow there you will find steel—tool steel. Take any plow that has had hard work for five years, put it along side of a John Deere which has been in service that long—and see the difference. Then there is no entire terms of the property of the propert Then there is no paint to cover up poor material. You can see the wear and the defects. The John re will be solid, staunch and ready for the hardest job. Then you begin to knew that quality counts

You can take pride in ewaing a John Deere the standard plow of the world for





# Purchase An

It will dig from 3,000 to 5,000 lineal feet per day and make you more clear money than the best 160-acre farm in your county. If you have decided to branch out for yourself this year, arrangements should be completed at once, as spring will be here almost

before you know it.

The Austin Tile Bitcher is the only ditching machine made that has positively self-cleaning buckets, hence will dig gumbo or sticky clay without clogging.

it is self-propolling and will travel over wet and boggy ground without For further particulars send for Catalog No. 317.

F. C. AUSTIN DRAINAGE EXCAVATOR CO. hangs Chinago, III. (1) Agents wanted in all territory now open.



Live Stock in Kansas, Assessers' Re turns for Forty-Nine Years.

M	ilk Other	Total				Mules &
	wa. cattle.	cattle	Swine.	Sheep	Morses.	Asses.
1860 28,	550 61,133	19.683	188,224	17.509	20.344	1,496
1870123.	440 250,295	878,987	206,587	109.088	117.786	11,786
1875225.		703.022	292,858	106,224	207.276	24,964
1880		1.115.612		426,492	367,589	58,303
1881406,		1,246,457	1,178,199	806,328	383,805	58,780
1882423.	381 971,116	1,404,497	1,228,688	978.077	898.678	56,654
1888 471,	548 1,188,154	1,604,702	1,893,968	1.154.196	423,426	59.262
1884		1,858,925	1,953,144	1,206,297	461.136	
1885		1,978,848	2,461,522	875.198	613.830	64,889
1886627.		2.090.217	1,966,149	652,144	572.059	75,177
1887692,		2,261,486	1,874,394	538,767		83,642
1888742.		2,362,488	1,488,245		648,037	89,957
1889728,		2,461,888		402,744	700,733	92,445
1890674.		2,300,786	1,441,455	898,858	719,394	90,357
1891696,		2,467,202	2,102,231	284.654	716,459	78,346
1892631.		2,339,754	2,085,815	260,658	776,532	77,170
1998567,			1,605,098	240.566	804,928	79,262
1894		2,072,626	1,406,086	224,952	860,188	88,585
1895		1,815,920	1,623,875	166.884	864.654	86,729
1896		1,776,178	1,666,221	136,520	852,789	95,169
		1,820,382	1,888,091	182.236	846,841	95,448
		2,156,481	2,899,494	222,703	801,427	86,919
		2,604,065	2,766,071	207,482	777,828	84,228
		2,886,068	2,840.992	232,039	796,866	87,838
1900712.		3,155,625	2,286,734	200,391	786,228	89,064
		3,417,837	2,114,201	186,987	825,553	89,725
1902791,		3,847,644	1,427,302	136,753	811,594	95,671
1903		8,548,324	1,770,585	167,044	845,404	101,089
1904792.		3,550,254	2,127,482	167.721	\$35,510	103,486
1905763,		3,401,025	2.188,555	158,591	879,258	114,091
1906711.		3,088,482	2,177,125	176,177	862,596	115,662
1907690,		2,861,594	2,608,574	159,241	899,068	127,593
1908687.		2,640,867	2,705,057	136,191	928,956	144,997
1909671,	662 2,018,965	2,650,627	2,157,048	159,271	958,335	173,609

How We Handle Hogs

Having received several inquiries as to how we handle our hogs from time we breed our sows till hogs go en the market, concluded to answer through the columns of Kansas FARMER.

Our sows are large and of a prelific strain, some are old from two te five years and some are gilts. We aim to have our sows in fair conditien, not too fat, when we breed them and have them gain slowly till farrowing time. Do not breed your gilts till they are at least one year old. Use matured males as a general thing and our males are very large, one weighing 950 pounds in breeding condition and hog men estimate him at 1150 to 1300 pounds, but think, 1,300 a little too high think he can be made to weigh close to 1,200 pounds. The ether can be made to weigh 300 pounds. We keep our males in fair condition.

We feed our sows, as nearly as pessible, a balanced ration and having ne milk feed, shorts, meat meal and eorn. We keep a record of all sows bred, when bred and to which boar bred and about two days before farrewing time, put sow in a small room in one of our hog houses. These rooms are about 6 1-2 feet by 10 feet and have fenders about 6 inches from floor and 2 inches from sides of pen te prevent sows from laying en pigs. We try to be on hand at farrowing time and as pigs come, wipe them dry with a gunny sack and if the sew is mervous and is up and down a great deal, have a bex lined with old sacks and put pigs in this to keep them out of the way of the sow. If it is cold weather, put a jug of hot water in the box to keep pigs warm. Let pigs nurse every hour or se and when they are through nursing put back in the box. As soon as we can get around to it, do not put this off too long, mark pige generally as sew marked and also nip off their tushes two pair above and two below, this is important especially with large hitters. Unless this is done the pigs are cankered mouth, caused by fighting over their teats, and the first think you know your pigs

will be dying. Should pigs get cankered mouth, nip tushes and grease lips with lard and

lard so that when rubbed on your own flesh it smarts a little. In nipping he tushes grab the pig by the upper jaw just behind two upper pair of tushes with thumb and fore finger, and with a small nipper with projecting jaws, nip tushes off smoothly close to jaw, being careful not to cut tongue er lip.

The first feed we give sows after farrowing is generally water with chill taken off, and to this we mix in a handful of shorts. Next feed we add a little grain and increase the grain ration slowly for two or three weeks at which time we generally give sow about all she will eat.

We teach pigs to eat as soon as possible by placing some very thick slop in a low trough where pigs can get to it. As soon as pigs are able to fol-low sow we let them have the run of a white clover pasture. Let pigs run with sow till they are about 10 weeks old and if they are getting fed well they often wean themselves and if they don't wean themselves, wean them. If pigs have been handled preperly, at this age they eight to weigh 70 pounds or 80 pounds. Aim to keep pigs growing from the time they are farrowed till they go on the market. Castrate the males at 6 to 10 weeks

When fattening hegs we generally use cern for the grate ration feeding twice a day and made hogs clean up everything. If they be not clean up everything in an flour or an hour and a half decrease the feed and if they eat their feed in less time, inerease feed. In addition to the grain ration we give hogs a slep made of shorts and meat meal or digester tankage. Use two measures of shorts to egg ineds peel pur | rem isem je ene er 300 pounds of meat meal to 188 bu. of corn. Give this slop about half hour before feeding the corn. We put a little sait and a little air slaked lime in slep. Hogs like their slop salted

If hogs are wermy, give a couple of doses of santomine, b to 8 grains at a dose according to size of hog. Keep hogs in a dry lot for 24 hours er miss feeding at evening and next morning mix santonin in thick slop made of shorts and see that casa h g gets its share. Repeat dese following evening mixing salts in slop and carbolic acid. Put enough acid in if hogs are not passing worms the

disinfect, destroy all forms of par-Dr. Hess Dip and Disinfectant

Lice and Parasites Cost

\$175,000,000 a Year

according to the report of the United States Department of Agriculture. What the death loss is, due to

poisonous germs of disease, can hardly be estimated. The cry everywhere is clean up,

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

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

DR. HESS & CLARK





To make an Overall wear and fit the best it is necessary for it to be cut as scientifically as, your best pants and sewed by the best known methods. Firz Overalls are built on these plans for men that appreciate solid comfort and long wear. Your dealer will supply you with Firz Overalls as all uptodate merchants carry them because they know they will wear longer and fit better than others. Write to us for free booklet.

Hanna-Munger D. G. Co. Kansas City, Mo.



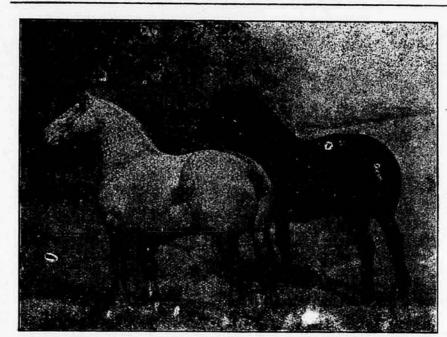
fry it 20 days FREE could like to have you test a Corn Belt Mill on your farm for 20 days. If it doesn't mill you or expeed, send it mill you or expeed, send it more about the mill. Write for booklet to-day.

SPARTAN MANUFACTURING CO.
DEPT. 65 PONTIAC, ILL.

BREEZE 7 Handsome Models \$275
Travel the worst roads And Up
Motor Vehicle with ease and comicor And Up
SEND FOR CATALOG "G"

The Breese is strong, simple, speed and safe. Best motor vehicle built for country roads—mud. deep sand or high hills. 13-18 H-P. engines. Lowest cost of up-least tire trouble, Handsomely finished. HEJEWELCARNIAGE CO. CINCINNATI, OHIO





Imported Percheron mares, Girafe and Gravelie, weight 4,000 pounds, included in March 3th Percheron sale of O. P. Rendershot, March, Neb.

#### There are Fortunes in Farming the Right Kind of Land.

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

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

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

In the San Antonio country you have the very best of transportation, good neighbor-hoods, schools and churches, soil deep and rich, health and happiness, prosperity, and

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

JOHN B. CARRINGTON,

Industrial Commissioner, 42 Chamber of Commerce, SAN ANTONIO, TEXAS.

SOUTHWEST TEXAS OPPORTUNITIES.

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



SHIMER Spring Poultry Fence is made of high carbon, crimped steel wire, heavily galvanized—won't sag, buige, rust out nor pull apart. Requires f wer posts. Catalogue, illustrating Fences for all pur-poses and containing valuable suggestions on poultry raising, mailed free. NG STEEL FENCE & W tern Factory: Coffeyville, Ras.



48IN. FENCE 27C

Best high carbon coiled steel
wire. Easy to stretch over
hills and hollows. FREE
Catalog—fences, tools. Buy
from factory at wholeselve
prices. Write today to Box 62
W. H. MABON, LEESBURG, O.

next morning they are not worm.y. Santenin will cost about 65 cents an ounce.

We believe there is as much in the man who is breeding the hogs as there is in the hogs or the breed.

We select our largest and reomiest gilts for brood sows and have aimed to keep out of what is called the show type.

By following the above plan, we are able to get our hogs on the market at an earlier age and larger for their age than most farmers in this part of the country. Ask our neighbors.—W. S. Harding, Richland, Kan.

#### The Wild Turkey.

(Continued from Page 3.)

30 per cent, this would give about 9,000,000 turkeys, or almost one bird for every nine persons in the United States. The standard weight of a healthy fowl ranges from 12 to 36 pounds but not more than half of this remains for food. It can be well understood, therefore, that there is scarcely turkey meat to go around, and that, until the growers provide the country more bountifully, some one must soon do without this luxury for the great national holidays of Thanksgiving and Christmas.

The turkey is indeed dedicated to these two joyous festivals. On this account he has won his place in literature. Essayists have made him the subject of their themes, and poets have occasionally sung the praises. Shakespeare, to be sure, was more attracted to his humorous aspects, and ridicules a character by exclaiming: Here he comes, swelling like a tur-

key cock. Pope can not avoid the ironical, al-though he recognizes the value of— An hundred souls of turkeys in a pie,

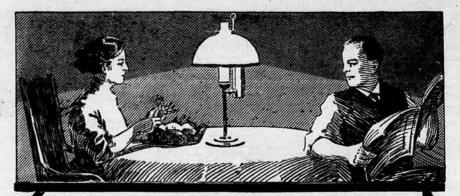
But Gray strikes a truer note. gives us a picture of a Christmas, in which-

From the low peasant to the lord The turkey smokes on every board.

#### Red Squirrels or Fox.

EDITOR KANSAS FARMER:-I notice in the KANSAS FARMER & Synonsis of the game laws. In regard to the squirrels. I always thought that fox squirrels were sometimes called red squirrels. It seems from the way you have mentioned the fox squirrel it is not protected. I should like to have a description of a red squirrel.—J. D. Thompson, Stafford Co., Kan.

This editor has never heard a fox squirrel called a red squirrel though he has lived where they were more or less plentiful all his, life. the law was passed we were in formed that the fox squirrel was not meant to be protected but that the law was for the benefit of a different variety which existed in sparce numbers in southeastern parts of the state. Since that time, however, we have learned of several convictions of persons who had shot fox squirrels and, as the law says it shall not be necessary for the evidence to show the true name of the bird or squirrel killed we mention the matter simply to show in what a chaotic condition our present game law now is. State Game Warden L. L. Dyche informs us that one of his most pressing duties is to secure the passage of a real fish and game law under which he can act intelligently.



# "Let's Not Buy Another Thing Till We Put the Fences Right"

HE far-sighted farmer will say that when temptations arise to let the ready money go for some luxury. The luxury is an expense; the good fence is an investment—a producer. A farmer is losing money fast until he has his farm fenced off into a sufficient number of fields to permit of the proper rotation of crops and the most advantageous pasturing of stock.

The fields of a farm are like the rooms in a hotel—the more rooms

#### AMERICAN FENCE Made of Hard, Stiff Wire of Honest Quality

is an investment that brings the most returns for the money paid out. It is made of a quality of wire drawn expressly for woven-wire-fence purposes by the largest manufacturers of wire in the world. Galvanized by latest improved processes, the best that the skill and experience of years has taught. Built on the elastic hinged-joint (patented) principle, which effectually pretects the stay or upright wires from breaking under hard usage.

F. BAACKES, V. P. & G. S. A. American Steel & Wire Co. NEW YORK DENVER CHICAGO SAN FRANCISCO

NOTE.—Dealers everywhere. See the one in your town and have him show you the different designs and give prices. Also get from him bookiet entitled, "HOW TO BUILD A CHEAP CONCRETE FENCE FOET," furnished free for the asking.







THIS IS A BUSY TIME! FARMERS EVERYWHERE ARE GETTING READY FOR SPRING. ARE YOU READY? Freight Prepaid GALLOWAY SPREADER. LOWEST Made Prices ever in offered, Try 5 Sizes it 30 days farm.

There is going to be the hottest rush for manure spreaders this spring that ever pened in Manure Spreader History, and I am prepared for it. I had the hunch 6 mage. It's not too late now for you to write me and it isn't a moment too soon. Do it while you have it in mind, today. Get my special prices and prepesition now.



Never was so much manure piled around the barns and feed lots as there is this year. Never in 15 years has there been such a need for manure spreaders as there will be this spring? I say again, are you ready?

You've been seeing my ads this year, last year and the year before, Never wrote me yet, did you? Just because I advertise you have often wondered if Galloway was really giving the value--the quality.

Say! Do you know that that is the reason I sell so many, just because I tell the people about them. All there is to selling the Galloway is simply telling the people about them. All there is to selling the Galloway is simply telling the people about them. That's how I have got the big make morey with them. Ask gest spreader factory making wagon box and complete spreaders, 100 a few for one - they are FREE day, more on mighty short notice. I'm ready. Are you ready?

Don't put off that manure spreader matter one more day. Don't let it lie over nicht. Rouse out your penell and drop me a card for my spreader catalog. Get it and investigate. Its full of live facts, You can't tell how good and valuable it is till you see it. Make yourself acquainted with the biggest thing in Manure Spreader History. That is the Matchless Galloway Wagen Box and Complete Spreaders. Made in enormous quantities in my own factories at Waterloo, lowa. Priced right, guaranteed absolutely. What is say to you is in black and white. I will it in the contract. Whatever promises, claims or challenges I make, I write it in the contract. Whatever promises, claims or challenges I make, I write it in the contract. Whatever promises, claims or challenges I make, I write it in the contract. Whatever promises, claims or challenges I make, I write it in the contract whatever promises, claims or challenges I make, I write it in the contract. Whatever promises, claims or challenges I make, I write it in the contract. Whatever promises, claims or challenges I make. I write it in the contract. Whatever promises, claims or challenges I make, I write it in

NOW GET your letter, postal card, telephone or wire into my effec. Ask me to send you my Book of Facts on the manure spreader. Today, right now, is the best time. Do it before some other thing comes up. Write me new for my Manure spreader Catalog. Write me the kind of trial proposition you'd like to have.

WM. GALLOWAY, President, THE WILLIAM GALLOWAY COMPANY, WATERLOO, 16WA.

KANSAS LAND

KANSAS LAND

REAL ESTATE DEALERS ATTENTION.

If you want to know how and where to buy advertising space in a big farm paper and daily paper covering the richest agricultural section of the United States for less than a half cent a line per thousand circulation, write BOY O. HOUSEL,

62514 Jackson Street.

Topeka, Kan.

#### LANDS IRRIGATED ZIMERMAN

THE CREAM OF THE PECOS VALLEY.

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

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

109 West Seventh Street,

Topeka, Kan.

### 800 Acre Stock and Grain Farm

THE HEATH COMPANY,

two miles of two railroads and near trolley line, 480 acres rich creek bottom and second bottom, black loam soil. does not overflow, best of curn, alfalfa and wheat land, 300 a. fanced hog tight with good cross fence, two sets of improvements, No. 1 seven room house, three good barns, all good condition, will care for 54 head of stock, tied; never failing well, soft water, three water tanks, 18 barrel capacity; plenty bearing fruit trees, good stock scales, with house over and stock yards, 20 a. good timber last a life time! never failing supply natural gas to run all machinery and for light and fucl. No. 2 improvements, sood seven room house, good water, good barn, barn 30x40, capacity 3,500 bu. grain, 12 tons hay, oat granary and cow shed, some fruit, one-half section pasture land, 200 a. lime stone and 120 a. sand stone, grass, suitable to be made into a good farm, fenced with 4 galvanized wire, hedges, posts one rod apart, good water. The natural gas soid from the 800 a. is \$1,000 cash in advance each year and free fuel for house. 175 a. fine growing wheat. The crops for 1909, will show the real value of this farm. It will be priced on good interest paying basis, one-half cash, balance time if desired, to suit purchaser, low interest. 200 registered cattle, 300 head hogs, all stock priced with or without farm. Want to retire from suiness. No trades considered. Come and see me.

E. M. DOBSON, Owner,

Independence, Kan.

#### AHOME

For you at a bargain price, 320 acres fine level land. For particulars write to Jetmore, Kan. Winn Realty Co.,

#### 320 ACRES

good farm land, 4 miles county seat, 2 miles railroad, all tillable except creek bed, un-improved, abou. 20 ft. to water, sandy loam, \$20 per acre. A bargain. M. G. Stevenson,

### KINGMAN CO. LANDS

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

BROWN REAL ESTATE CO.

KINGMAN,

## Good Bargains

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

#### BARGAIN

160 acres 1 mile from the County seat. 100 acres in cultivation, 80 acres of good alfalfa land, nice smooth land, good loca-tion. Price \$44,000. Three years time on \$1,500 at 6 per cent bal. cash.

LOHNES & CASON, Ness City,

# HOMESEEKERS

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

The Allen County Investment Co., Longton,

THOS. B. SALTER. PARK E. SALTER. THIRTY-FIVE YEARS IN SOUTHERN KANSAS.

#### IT IS LAND WE SELL Kansas and Oklahoma Farms

We are centrally located and are the headquarters for homeseckers. Let us know your wants. All information gladly furnished. Correspondence solicited.

SALTER REALTY & LOAN CO.,
1132 East Douglas Ave., Wichita, Kan,

25,000 acres in McMullen Co., Texas, all good level land, black sandy loam, price \$10.00 per acre.
73,000 acres in southwestern Texas, \$1.35

per acre.
200 acres near Marquette, McPherson Co.,
200 acres near Marquette, McPherson Co.,
Kansas. Well improved. Price \$10,000.
CHAS, PETERSON.

# A Good Farm and Fine Home.

160 acre, 125 a. in cultivation, balance pasture, 80 acres in wheat, which goes with farm if sold before March 1; 100 acres is first class alfalfa land, all of it is good corn land. Improved with good 4 room house, barn, granary, crib. poultry and smoke houses, fenced, family orchard, 2 wells, windmill and tank. Located 2½ miles from Burton 12 miles Kutchinson, 30 miles to Wichita, 1-4 mile to school, on R. F: D, and phone in house. This is in a good neighborhood and fine country, good soil. Price \$16,406. Send for list. The Felson Real Estate & Img. Co., 137 N. Main St., Wichita, Kan. WRITE FOR FREE 61 page list of corn, wheat and alfalfa farms and colored state map Write today. Bridey, Pautz & Danford, Abilene, Kan.

#### EASTERN KANSAS BARGAINS.

1. 320 a. well improved, near town, \$45 a. 2.—160 a., good improvements, close in, \$45 a. 3.—160 a., finely improved, \$9,600. 1,152 a., great ranch, finely improved, easy payments, \$28 a. Write for list.

JOHN TAGGART, & SON, White City, Kansas.

S00 ACRE BARGAIN IN NESS COUNTY KANSAS.

Only 1½ miles from Ness City, all in cultivation and will all be sown to wheat and 1-4 crop goes to purchaser. Price for a short time \$25 per acre. Look this up, a genuine bargain. Let us send you our land list.

Kirberg & Miller, Ness City, Kan.

IDEAL HOG AND ALFALFA FARM. 325 acres, 2½ miles Anthony, 30 alfalfa, 200 in cultivation, balance fine pasture with never failing stream of clear water; well fenced; large house and barn, both new. Price \$16,000. Liberal terms. Other

SMITHSON & HOLADAY REALTY CO., Anthony, Kansas

## BUY WESTERN KANSAS LAND.

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

Eugene Williams, Minneola, Kan.

#### Every Man is Entitled To a Silce of This Good Old Earth.

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

SEDGWICK COUNTY FARM BARGAINS.

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

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

160 ACRES.

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

HILTON & GARRISON,

Attica,

Attica.

FOR SALE. FOR SALE,

I offer a special bargain this week in a half section of smooth land, 1½ miles from Colby, Kansas, the county seat, all broke out and seeded to winter wheat, in good season, all the wheat to go with the land. This wheat crop will go a long ways toward paying for the land. Price \$25 per acre. It will pay you to investigate this by writing the owner.

IKE W. CRUMLY,

Colby.

BARGAINS.

Farms, ranches, hotels, livery barns and other properties for sale direct. Manhattan hotel and furnishings, Iola, Kansas, 3 story pressed brick, opposite new \$72,000 postofice, cheap for cash; livery barn, best location in town of 1,000, \$1,500: 57 acres blue grass pasture, joining same town, \$5,000; 520 acre ranch, Barber county, fenced, house, 50 cultivated, more can be, plenty water and timber, \$5,000; 1,520 acre ranch, with 900 acres leased land, all fenced, 6-room house, plenty timber, abundance of water, on main traveled road, price \$15,200; terms, if needed, 1-3 or 1-2 cash, balance to suit at low rate of interest.

P. H. FOLEY, Owner,
Thayer, Kan., or Manhattan Hotel, Iola, Kanses. BARGAINS.

FIELD NOTES

FIELD MEN.

.Topeka, Kan Jesse R. Johnson..... .....Clay Center, Kan. ... Belolt, Kan.



#### PURE BRED STOCK SALES.

Percherons.

March 4—Dispersion, J. A. Gifford, Beloit, Kan. March 9-At Lincoln, Neb., O. P. Hender-shot, Hebron, Neb.

Jacks and Jennets.
Feb. 28—W. J. Finicy. Higginsville, Mo.
March 1, 2—L. M. Monsees & Sons, Smithton, Mo.
March 8—Petty Bros., Sedalia, Mo.

June 10-C. S. Nevius, Chiles, Kan.

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

Poland Chinas.

March 4—L. R. Berkey, Louisburg, Kan.

March 9—D. A. Wolfersperger, Lindsay,
Kan.

March 10-C. W. Dingman, Clay Center, Kan.
March 17-M. O. Stewart. Leonardville.
Kan.
May 17-Roy Johnston, South Mound, Kan.
Oct. 20-Roy Johnston, South Mound, Kan.

• Duroc Jerseys,

March 16—Samuel Drybread and J. J.

Baker, Elik City, Kan.

March 22—S. W. Alfred & Son, Sharon,

Kan., sale at Enid, Okia.

Nodurft & Torrey, of Lyons, Kan., have listed an exceptionally good 160 acre atfalfa farm in the Saxman valley, Rice county, 70 acres now in alfalfa, fine stand. This firm state that this is a bargain and is way below its actual value. See advertisement under Kansas Lands in this issue for price and other particulars.

W. S., J. B. and B. Dunham, owners of the Oaklawn Farm at Wayne, Ill., call attention to their last importation of draft horses, which includes an extraordinary lot of animais. They are now offering a fine selection of Fercheron m - t are nearly all bred Their selection of staillions is unequalled. They report that they have had record-breaking sales in the last two months. Notice the change in their advertisement in another column and write your wants. They have the horses and they have the experience. Mention Kansas Farmer.

A visitor to Ellinwood, Kan., called at the farm of F H. Schrepel and found much to interest him. He says: "I believe' Mr. Schrepel has the best bunch of young mares in Kansas, and the best 4-year-old stallion I ever saw." Mr. Schrepel starts his advertising card in this week's Kansas Farmer, and while he does not maintain one of the larger studs of Percheron horses, be does go in for quality. It will pay you to visit his farm, which is just outside the city limits of Ellinwood, and take a look at his stock. Failing of an opportunity to do this, write and ask him what he has to seil, tell him what you want and mention Kansas Farmer.

Poland Chinas at Leonardville, Kan.
M. O. Stewart, one of the old time Poland China breeders of Hiley county, Kan., finds it necessary to disperse his fine herd. The sale is to be held at the farm near Leonardville, March 17. The offering will comprise about 40 head of very fine tried sows, glits and a few fall boars. For catalog write Mr. Stewart, mentioning Kansas Farmer.

The Sunny Slope Sale,

Breeders of Berkshires should bear in mind that 40 head of registered Berkshires are to be sold at the Sunny Slope Sale,
Sunny Slope Farm, C. A. Stannard, proprietor, Emporia, Kan., March 1, 2 and 3. The Berkshires will be sold on March 3. This is an especially well bred lot of Berkshires. There are several sows by Berryton Duke 72346, and a fancy lot of last spring gilts out of these sows sired by Climax Baron 112983, he by Masterpiece Climax 100001, Mr. Lovejoy's great herd boar. There are ten aged sows in the sale, all safe in pig by Climax Paron 112983, the two year old boar that is now at the head of the herd, Climax Baron also goes in the sale, and a few choice young boars by him. This will be an opportunity for Hereford breeders that are breeding Berkshires to attend the Hereford sale and on the following day attend the Berkshire sale.

Wulfersperker's March 9 Sale.

#### Wolfersperger's March 9 Sale.

Welfersperger's March 9 Sale.

D. A. Wolfersperger, who put up such an attractive offering of Poland China bred sows at his Feb. 8 sale, is going to do it over again on March 9. This move is made necessary because Mr. Wolfersperger has sold the farm where he now lives and bought at Council Grove, Kan. While he is staying in the hog business and expects to have a larger and better herd than ever before, he cannot handle and care for, in a proper manner, large numbers until he has made some improvements, so on the date that we have already mentioned, he will sell 60 head, consisting of many animals that he would not price but for the reason we have mentioned. There will be 35 head of bred sows and glits, the rest open glits and a few boars. The offering, in point of breeding, is the equal of any that has been put up by any Kansas breeder this season and nearly all of them are excellent individuals, although quite a number will be a number of attractions and breeders that are not yet supplied should be on hand. Prevailing high prices of fat hogs and the nearness to spring, when they can be raised at so little cost, makes this sale one that should be patronized by thoughtful hog men whether interesectd in raising them for breeders or pork. If unable to come, send bids, large or small, to Jesse or J. W. Johnson in Mr. Wolfersperger's care at Lindsay, Kan. Write for catalog and mention Kansas Farmer.

When writing advertisers, please mention

#### KANSAS LAND

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

#### FOR SALE.

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

MANVILLE & BAILEY,

#### HARPER COUNTY.

Home of corn, alfalia and wheat. Lands \$35 to \$75 per acre, that would be cheap at twice the money. Values advancing rapidly. Now is the time to buy. Descriptions and full information free

Hencock Realty Co., Kansas. Anthony,

#### NESS COUNTY LAND.

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

BARBER COUNTY 360 acres, 3 miles Medicine Lodge, 300 in cultivation, 10 alfalfa, 150 fine alfalfa land, 20 timber, well improved, house, barn, outbuildings, etc., practically new. Frief \$35 per acre. Other farms.

T. L. Lindley & CO., Medicine Lodge,

Kansas.

#### HELLO FARMERS!

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

Madison, Kan. P. D. Stoughton,

#### IMPROVED FARMS.

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

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

LABETTE COUNTY BARGAINS.

184 a. 10 ml. from Coffeyville, 1 ml. from Vaieda, dandy creek bettom farm, 60 a. in cult. bal. mow land and pasture, some tim ber, new house and barn, newly fenced, 1 ml. to school. Rural R. Tel. only \$6,000.

THE BOWMAN REALTY CO., Kansas.

THE BEST TOWN TO LIVE IN.

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

BEST FARM IN KANSAS,
560 acres bottom valley land, all smooth,
fine, black sandy loam, no waste land,
small orchard, 20 acres, fine alfalfa land,
new 10 room house, hot and cold water,
lighted with acetylene gas, bath and toilet,
500-barrel cistern, sewer system, R. F. D.,
telephone, 5½ miles to two railroad towns.
Price \$55 per acre. For further particulars
write

Neal A. Pickett, Arkansas City, Kan.

PRICED TOO CHEAP

1 \$35.00 per acre, but the owner, who has rented it for a number of years, has moved to Wichita and cannot look after it; 160 acres in Cowley Co., 5 miles from R. R. town, good roads, 1 mile from inland town with church and school; all smooth, level land without a rock or foot of waste; fenced and cross feaced; 30 acres in cultivation, 5 acres hog lot, balance pasture, small orchard, fair improvements, telephone and R. F. D., afalfa land, 8 to 20 feet to water. If you are looking for a good cheap farm, don't let this get away. \$2,100 will handle. handle. Sharp Realty Co., Wichita, Kan

ARE YOU LOOKING FOR A HOME?
No farmer should think of buying a home before seeing a copy of THE FARM AND REAL ESTATE JOURNAL. It contains the largest list of farm lands, city property and stocks of goods of any paper published west of Chicago. It reaches \$0,000 readers each issue, \$\$ per cent of whom are farmers. Every one who has any property they wish to advertise will find this journal one of the best advertising mediums published. Advertising rates 2c per word each insertion. Send 75c and we will mail you the Journal for one year, or for 10c in sliver or stamps we will send it for two months on trial and stop it at the end of the two months unless you renew your subscription. ARE YOU LOOKING FOR A HOME? months unless you renew your subscription. Farm and Real Estate Journal, Tracr. Is.

#### EASTERN KANSAS FARM BAR-GAINS.

GAINS.

160 acres Dickinson county, near Solomon and Abliene, guaranteed perfectly smooth rich land, 7 room house, barn 28x48, 22 a, wheat, one-third to purchaser, \$12,000; 160 a. 17 miles Topeka. 5 mi. town, 40 a. clover all in cult., good 6-room house, barn 48 by 60, extra fine farm, only \$9,000; 80 a. 11 mi. Topeka, 75 a, in cultivation, no weste land, new 5-room house, small barn, sg/ing water, \$5,000. Write for list stating what you want, as we make specialty of selling farms worth the money.

Wingest Land Co., Stormont Bidg., 100 West 6th, opeka, Kan. A. J. White, Farm Salesman.

AN IDEAL FARM FOR SALE.

AN IDEAL FARM FOR SALE.

Kansas farm of 300 acres, adjoining a flourishing railroad town, forty miles west of St. Joseph, Mo. The soil naturally rich, has been made more fertile by twenty years of judicious crop rotation and by the liberal application of manure; well watered, fine wainut timber, finest blue grass pastures, alfalfa, timothy and clover meadows; finest corn and wheat land; well fenced; hay, cattle and horse barn for a large amount of live stock; large silo, water tanks, granary, fine mill, etc. A model stock or grain farm, ready for use. An excellent opportunity. For complete information, address K 215, care Kansas Farmer, Tepeka, Kan.

#### KANSAS LAND

FORD AND NESS COUNTY
wheat, corn and alfalfa land, \$15.00 to
\$30.00, tracts to sult; liberal terms. Big investment opportunity, great chance for
homeseekers. Also Pratt county lands. Write
for further information.
I. L. Chinn & Co., Coats, Kan.

160 ACRES.

small improvements, good sandy loam soil, 8½ miles from market, ¾ mile school, telephone, R. F. D. and church facilities. Price \$6,500. Good terms, I have one or two other especial bargains.
Ed Boots, Pres, Isabel State Bank, Isabel, Kansas.

#### 320 ACRES

of good Jewell county land, \$50.00 per acre is sold hefore April 1. Well improved, all fenced, 125 acres alfalfa, abundance of water and timber, 6 miles from Mankato, the county seat.

Canan & Hill, Mankato, Kan.

680 ACRES IMPROVED LAND.

300 acres in wheat, half goes to purchaser; price \$30.00 per acre. Will take a good residence property for part pay. This farm is 44½ miles from town and worth \$10.00 per acre more than asked. Harper, Kan.

240 ACRES VALLEY LAND Good improvements, near school, 4 miles town, several acres orchard, fine grove forest trees, water at 12 to 30 feet, \$30 per acre, Good terms, Big list and booklet free, PARK H. THORNTON, Coldwater, Kansas.

#### BARGAIN.

Improved ½ section level farm land, ¼ i. P. O. and school, 250 a. in cultivation, 10 a. wheat, 1-3 crop goes with place, rice \$30 a.; make very reasonable and ng time terms. W. B. GRIMES, Owner, whiland. Kan.

#### ALFALFA FARM.

ALFALFA FAKM.

160 acres, 70 alfalfa, 3 miles of Saxman, Rice county, 8 room house, large barn, R. F. D., near school, telephone, complete system of waterworks, spiendid improvements, 3 miles woven wire fence. Price \$14,500; terms; write.

NODURFT & TORREY. Lyons, Kan.

INVESTORS.

480 acres, guaranteed, good, dark, corn, wheat and alfalfa land, 1½ mile from good rallroad market, ¾ mile to school, telephone, rural delivery Plat and detailed information free Only \$23,000.

C. A. Babcock, Harper, Kan.

SOME FARM SNAPS—210 acres, 2½ miles from town, fair improvements, 100 acres wheat, near school, practically all tillable; price \$55 an acre. 160 acres finely improved, good buildings, close to Wichita and one that will advance rapidly; price \$75. 160 acres near Wichita, fair improvements, a real bargain, plenty of alfalfa, on main road, price \$80 an acre. Talk it over with Howard, the Land Man, Room 15 Turner Bidgs., Wichita, Kan.

#### 7 FARMS SOLD SINCE FEBRUARY LIST ISSUED.

If you have one of our Feb. lists mark off Nos. 52, 64, 90, 91, 101, 106, as they have been sold since the list was issued. We have also sold the 160 adv, at \$55, the first man that saw it bought it. Isnt this proof of our values? Some dandies left. If you havent one of our lists write for it today.

DONAHUE & WALLINGFORD, Mound Valley, Kansas.

WHO WANTS THIS?—240 a., 165 a. in cultivation, of which 135 a is creek bottom, 70 a. in alfalfa, 10 a. timber 2 a. orchard, 2 modern houses, one 10 rooms, other 4 rooms; barn to hold 14 head of stock, 15 tons hay, smoke house, granaries, cribs, gas engine, saw and grinder, everything is in first class condition. ½ mile school, 1 to church, 4 of good town, 10 miles Cottonwood Falls, 13 miles Emporia, R. F. D. and telephone; write for price and lists, A. J. Klotz, & Co., Cottonwood Falls, Kan.

MAKE OFFER on following for cash: All of section 13-13-42. Wallace Co., Kan. \$640 still due the R. R. Co. at 6 per cent. This is close to R. R. town and all good wheat land. Price \$6.00 per a.; will consider good cash offer. Also have some clear residence presents and some equities to trade for young stallions or jacks or for clear western Kansas land; priced on market. All rentals in good repair and bringing good income, \$3.000 stock of general midse, for clear western Kansas land. C. E. Tinklin, Corning, Kan.

FOR SALE OR RENT, with privilege of buying, 640 acres, Sec. 36-7-3, Cloud Co., Kan. Desirable farm for stock raising; 150 acres in cultivation, two pastures, 400 acres and 90 acres each; improvements only fair; 7 room house, newly shingl-d; stable for 12 head horses, cribs and other improvements; Aurora 6 miles, 3 north and 3 east, telephone and rural delivnorth and 3 east, telephone and rural delivery, good road to market; price, if sold soon, \$25 per acre, rental 1-3 of crops delivered at Aurora, and \$1 per acre for pasture. Address the owner, Chus. W. Hull, 706 Jackson St., Topeka.

#### For Prices

On Greenwood land write G. K. Jackson Land Co., Eureka, Kan.

BUTLER COUNTY, KAN.

Do you want to buy a farm? Send for our list of farms for sale in the best county in state. Make early selections before prices go

whitewater land & loan co., Kanas.

# **Kest Bargains on Earth**

Are 'n the Sciomon valley country in Smith and Osborn counties, Kansas. home of alfalfa, corn and wheat. Come out and view the promised land.

H. A. TURNER.

#### J. C. Robison's Big[Sale.]

The tenth annual sale of Fercherons ... om the Whitewater Falls Stock Farm, owned by J. C. Robison, Towanda, Kan., was held in the big pavilion on the Wichita Fair Grounds, on Tuesday, Feb. 15. It was a success in ever way. Much of the stock offered was rather young, but the figures show that it was appreciated by the buyers. When a great crowd of men of this caliber will assemble from many states to bid upon a draft of animals from a Percheron stud it means much. It means that animals of this quality are in demand; that the farmers and breeders appreciate efficient motive power on their farms and will pay good money for good horses; that the reputation of this particular stud is excellent, and that the sale was well advertised. Buyers were present from several states, though all did not secure the animals they wanted. Of the 54 head sold, 34 were bought by Kansas farmers and breeders, who thus showed their high appreciation of these horses at home. Oklahoma took 10 head, Missouri 7 head, and Texas, Arkansas and Colorado 1 head each. The top of the who thus showed their high appreciation of these horses at home. Oklahoma took 10 head, Missouri 7 head, and Texas, Arkansas and Colorado 1 head each. The top of the sale was reached on the young stallion Myron 59250 by Imp. Saphir 32834 (46498), and out of Duchess 50419. He was bought by 3. C. Denison of Topeka at \$1,660.

The sales were as follows:

Stallions. Clayton. Amos 60017, Edwards & Kerr, Kins-520.00 Amos 6001, Edwards ley.

Trojan 44507, E. McKlbban, Iuka...
Jimmarald, Lee Bros., Harveyville.
Clarion 3d 45988, M. L. Payne,
Arkansas City.

Hurdy 62331, John Gattin, Cheney...
Confident 60018, J. B. Wick, Bel-770.00 700.00 vue.
Hugo 61017, B. L. Beacot, Sullivan.
Castend, B. E. Riker, Frederic...
Stevadore 61627, Lee Bros.
Morrit 53479. Scott McKittrick,
Prowers, Colo.

485.00 Okla. Hoche, W. C. Lilles, Kildere, Okla. Boni 60015, H. F. Neal, St. John. Harem 64123 (75887), H. L. Adams, Harem 64123 (75887), H. L. Adams, Plainville.
Pompey 59249, J. T. Tompkins, Rozel.
Coco 46561, H. M. Stevens, Munden.
Myron 59250, C. G. Dennison, Topeka,
Hispano 62353 (77102), Chas. Harrader, Arkansas City.
Leander 592', J. L. Noal.

570.00

Castoire 54. B. C. Pittock, Guth-rie, Okla. Cassina 55992, Wm. Tomb, Wichita. Winnie Bell, Henry Stunkie, Cald-well. Empress 63787, F. S. Morris, New-Loretta 63077, Walter Wells, Max-560.00 chette 59505, Wm Miles, Sedg-Fanchette 59505, Wm Miles, Sedgwick,
Rosette 52295, W. A. Linklighter,
Norcatur,
Fearline 57230, L. E. Miner, Newkirk, Okla.
Fannie Jane 60022, B. C. Pittock,
Victoria 41158, F. McLay, Tina, Mo.
Wanita 20395, F. McLay, Tina, Mo.
Wanita 20395, F. McLay,
Blanch, Fred Dauber, Meriden,
Forgette 59496, F. McLay,
Lyde, M. C. Brown, Jefferson, Okla
Blossom, F. McLay,
Bonna, B. C. Pittock,
Reryl, J. A. Gifford,
Licinda 56465, J. A. Gifford,
Rose 48868, Br. Carr, Cullison,
Stabella 52030 (61551), W. A. Linklighter. 410.00 650,00 405.00 485.00 320.00 150.00 610.00 350.00 395.00 850.00 lighter.

Miss Cassie 52325, F. McLay.

Myrtte, N. C. Brown, Jefferson,
Okia,
Cosette 46746, F. McLay.

Molly 55986, S. O. Carter, Clearwater. 670.00

500.00 mares sold for \$11,550.00; average 29 stallions sold for \$21,195.00; average \$730.86. 54 head sold for \$32,745.00; average

F. M. Gifford's Very Good Sale.

F. M. Gifford's Very Good Sale.

Fred Gifford made his usual good sale at Clay Center, Kan., on Feb. 16, and disposed of a splendid lot of stuff, as he always does. The bulls were an exceptionally good lot, although most of them were quite young. C. E. McKinnie of Beloit topped both the male and female offerings, buying the Scotch bull Lord Barmpton for \$200, and the fine Red Knight cow. Red Rose of Elimwood 12th, for \$180. The cows, many of which were next 10. weens 104 accurace. Elmwood 12th, for \$180. The cows, many of which were past 10 years old, averaged a trifle over \$95, and the buils made the very good average of \$115. General average on everything sold was \$101.75. Following is a list of representative sales:

BULLS.

C. E. McKinnie, Beloit, Kan., \$200 Frank Dixon, Junction City, K

35.
4. C. Fitz, Garrison, Kan., \$110.
5. J. T. Heverl, Oak Hill, yKan., \$110.
6. W. T. Low, Jewell, Kan., \$90.
39. R. F. Alexander, Green, Kan., \$105.
40. James Lelangood, Longford, Kan.,

40. James Lelangood, Longford, Kan., \$90.
41. C. H. Genstron, Concordia, Kan., \$80.
42. V. E. Carlson. Formosa, Kan., \$115.
COWS.
7. Paul Borland, Clay Center, Kan., \$130.
9. S. B. Amcoats, lay Center, Kan., \$140.
10. C. E. McKinnie, \$180.
13. A. W. Carpenter, Clay Center, Kan., \$100.

13. A. W. Schriff, \$120.
14. C. E. McKinnie, \$120.
15. E. McKiney, \$90.
16. W. H. Myer, Clay Center, Kan., \$90.
20. R. M. Orchard, Clay Center, Kan.,

20. R. M. Ordhatd, C.S. \$95. 22. Mr. Christenson, Lasita, Kan., \$65. 25. Briney & Briney, Beloit, Kan., \$95. 29. J. Alexander, \$60. 82. S. B. White, Clay Center, Kan., \$125. 82. Harry Doyle, Leonardville, Kan.,

84. J. Alexander, \$15. 28. J. Alexander, 875.

# SEED CORN 153 BUA

Diamond Joe's Big White—A strictly new variety. None like it. It is the harmond best Big White Corn in the World—Because it was bred for mest Big Bushe tancy show points; because grown from theroughbred inherited steek; every bears one or more good ears, because scientifically handled, theroughly dried an erly oured and had the most rigid examination. Big Bood Gaulet FREE. about all best farm, grass, garden and flower seeds grown. Write for it ted

# REE-FARM ACCOUNT BOOK

Know How Much You Make This Year No one shall pay a cent for Bickmore's Farm Account Book. It will be sent free to any farmer who will be good enough to tell who and where he is. The cost of a crop never demanded closer attention. Business farming puts money in the bank. This book is arranged to keep all accounts in simple form—more simple, and certainly more practical, than trying to remember them; shows what to charge against crop production; has a laborer's time record; and section for personal accounts. 64 pages; for ink or pencil. Not a cheap affair. It is meant for business. Its quality is in keeping with



Published by BICKMORE GALL CURE CO. OLD TOWN, MAINE, U. S. A.

**BICKMORE'S** GALL CURE

a remedy that ourses, and the horse works all the time. Users keep it in their stables the year round—they believe in it. It is always ready for Harness or Saddle Galls, Chafe, Rope Burns, Cuts, Scratches, Grease Heel, etc. In cows use it for Sore Teats. Don't buy a substitute. Insist n getting Bickmore's Gall Curefor the sakt. of your horse's health. But write now for Bickmore's Farm Account Book—it is ready for your. No cost. No obligation. Send your name and address—that's all. Bickmore Gall Cure Co.

Box 209, Old Town, Maine

**Send Your Name** on This Coupon or on a

Postal

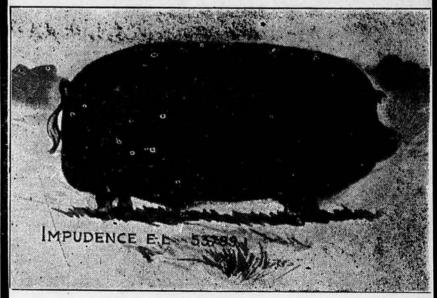
Farm Kansas Farmer

**WOLFERSPERGER'S** 

# **CORRECT TYPE POLAND CHINAS**

at auction Lindsay, Kansas, Wadnesday, March 9,

60 head, 35 head of which are in pig to the great Impudence E. L. and Noble Chief; more than half of the offering sired by Impudence E. L. Others by Hurry On, Trouble Maker, etc. Among the real attractions will be a very choice gilt sired by Perfection Likeness, dam Lady Winn by Meddler 2d. One gilt by Nobleman, the show boar by Meddler



Her dam was the great show sow, Orange Blossom by Chief Perfection 2d. Two gilts by Nobleman and out of E. L. Flower by Cn and On. A sale of attractions. Many animals are being sold that I would not part with but for the fact that I am changing locations. Catalogs ready now. Sent upon application. Mention this paper.

Lafe Burger, auctioneer. Jesse and J. W. Johnson, fieldmen.

D. A. Wolfersperger, -- Lindsay, Kansas

#### DRYBREAD AND BAKER DUROC JERSEY BRED SOW SALE AT ELK CITY, KANSAS, MARCH 16, 1910

60 head of choice sows and gilts, best strains of breeding, representing the blood lines of Ohio Chief, Buddy K IV, Red Wonder, Froud Advance, Kant Be Beat, Col. S, Hanley, King of Cols., Oom Paul 2nd, Inventor, Tip Top Notcher, Ingomar, King Wonder V., and bred to the following high Class boars: Buddy K IV, Bells Chief by Ohio Chief, Crimson Prince, Hanley's Wonder by Red Wonder, Beat Me if You Can by Cant Be Beat, Red Advance by Red Wonder. We believe we have one of the best bred offerings that will be sold this year. Send for catalog to either party, and come to

SAM DRYBREAD, J. J. BAKER, ELK CITY, KAN.

#### COLORADO LAND

IAND BARGAINS.

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

HENRY M. CHASE LAND CO., Colorado.

#### YUMA COUNTY, COLORADO.

We own and have for sale 3 160-acre tracts, unimproved, nice laying land, 8 miles from Yuma, Colo., \$15; also. ½ section and single 160 acres 15 miles from same town, fine soil, \$12.50. These are bargains. We buy, sell or trade.

XUMA COUNTY REAL ESTATE CO., Wray, Colorado.

COLORADO ALFALFA

Was first prize among standard farm
erops in Eastern Colorado, near Denver.
One years alfalfa crop more than pays for
land now selling from \$15 to \$25 per acre.
Wheat, oats, potatoes, do equally yell on
these low priced sub-irrigated lands. Map
of Celorade and alfalfa literature sent free. Ack COLORADO FARM LAND ASSOCIA-TION, 879 Dearbora St., Chicago, Ill.

Colorado Lands and Sunshine. If you are looking for a home, investment or health, where the climate is perfect, where there is the best class of people, churches, schools and no saloons, where thore are thousands of acres of choice land coming under irrigation and selling very chesp, you will do well to write us for new printed matter on Morgan Co., Colo. Address THE B. W. JACKSON REALTY CO., Fort Morgan, Colorado.

ROCKY FORD BARGAIN-ACT QUICK. 486 acre well improved sheep or cattle ranch, 6 miles from Rocky Ford, 80 acres under ditch and in cuttivation, mostly alfalfa. Good 8 room house, complete outbuildings. Price \$15 per acre. ½ cash. Several thousand sheep are now being fed on this ranch. Investigate at once if you are looking for the biggest bargain in this valley.

valley.

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

DO YOU WANT A HOME?

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

Vanderhoof & McDonald,

MUNTZING PAYS THE FREIGHT.

MUNTZING PAYS THE FREIGHT.

FARMS, SHEEP and also CATTLE AND HORSE RANCHES.

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

#### \$1 MAKES ANOTHER --- WHERE

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

E. E. SEAMAN, Coldrado.

# Colorado Irrigated Land

22,000 acres of irrigated Government land opened for entry under the provisions of the Carey act. The State of Colorado has contracted with the Two Buttes Irrigation and Reservoir Company to construct the irrigation works for the reclamation of this tract of land, which is located in liaca and Fowers counties, close to Rocky Ford and other proven districts. Water rights are of incontestable priority and title to land comes direct from the State.

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

Payable \$5.25 per acre cash, balance in ten annual payments. The tract is nearer Kansas City and Mississippi Valley markets than any other Carey act project. Land free from brush and stone, and soil will average 50 feet in depth. Aittude, 4,050 feet; climate best in State; rainfall 16 inches; crops, all grains, alfalfa, sugar peets, vegetables and fruit; no aikall. Local

markets for everything.

No agents employed and no commissions paid. Farmers wanted, not speculators. For particulars write

THE TWO BUTTES IRRIGATION AND

RESERVOIR CO., LAMAR, COLO.

#### KANSAS LAND

# A Big Farm Bargain

320 acres 3 miles from good raliroad market. 300 acres under cultivation, 250 acres of which are in wheat and one-half of the wheat goes to purchaser. Good 5 reem house, barn 24x35 feet, good granaries and outbuildings. All fine black soll and one of the finest half sections in Sumner county. Must be sold by March first, Price 147.50 per acre, half cash, balance 6 per cent. While me quick.

M. COLLINS. Caldwell, Kan.

A galvanized iron cupola is one of the up-to-date improvements for the barn. There is being made a cupola, also a ventilator of this kind which is so constructed that it will fit any shaped roof and add greatly to the appearance of the barn. It gives a constant current of fresh air in the barn consequently making it more healthful for the live stock. It keeps the barn nice and fresh all the time. Sobolik & Petersen of Cresco, Ia, manufacture these cupolas and ventilators and will be glad to send you their booklet fully describing them.

Hendershot at the Head.

At the last meeting of the Nebraska State Board of Agriculture a step was taken which will meet with the hearty approval of the farmers and breeders of our sister state. This was the unanimous election of Hon, O. P. Hendersot of Hebron as president of the State Board of Agriculture. This action of the board piaces Mr. Hendershot in charge of the State Fair and it is a matter of general congratulation that this work has fallen into such capable hands. To indicate that Mr. Hendershot is a progressive business man it may only be necessary to state that his sales of Percheron and Belgian stallions have averaged 2 per day ever since he moved his head-quarters to Lincoln. His interests are with the breeder and farmer because he is one of them and this fact alone presupposes in his favor. The people of Nebraska are to be congratulated.

Demonstrator of Agriculture.

The Santa Fe railway has employed Prof.
J. D. Tinsley to teach the settlers along its lines in the southwest the art of "dry farming." Prof. Tinsley for some years has been employed by the New Mexico College of Agriculture and Mechanic Aris in the capacity of soil physicist, field expert, and superintendent of institutes, and, by this training added to native aptitude, has become the best informed man on the subject of soil culture in the southwest. His new dutles will be to establish, select seeds, plant and superintend the cultivation of small tracts of land in semi-arid sections. He will visit these places monthly and lecture before clubs and institutes. The farmers are expected to set aside small lots of an acre or twe of land for these experiments. The company will furnish selected seeds in suitable quantities. For the present, Mr. Tinsley's werk will be confined to New Mexico. It is a new departure in railroading, but in keeping with the spirit of prokress maintained by the Santa Fe.—The Earth.

Myers Durce Jersey Sale.

Myers Duroe Jersey Sale.

E. M. Myers' Duroe Jersey bred sow sale at Burr Oak, Kan., Wednesday, Feb. 2, was held in the worst kind of a storm and the attendance of farmers was not very good. The farmers have always turned out in fine shape to the Myers sales and undoubtedly would have done so this time under more favorable conditions. Those who could get out were liberal buyers and with a nice number of breeders in attendance the average of \$30 was made. While a better average would have been made had conditions been such that farmers could have gotten to town, still it was very good and satisfactory to Mr. Myers. Al Cummings of Otego, Kan., topped the sale, paying \$56 for a tried sow by Nebraska Wonder. This was Mr. Myers' regular annual bred sow sale and was in the northern Kansas sale circuit. Below is a partial list of the buyers:

of the buyers:	
1- C. F. Warren, Webber, Kan	\$52.50
2-Al Cummings, Otego, Kan	56.00
3-Al Cummings,	35.00
4-C. F. Warren	27.00
5-L. Banke, Otego, Kan	32.50
6-W. Beanblosom, Otego, Kan	32.50
7-W. Beanblossom	27.00
8-C. J. Hadley, Burr Oak, Kan	30.00
9-W. E. Monasmith, Formosa, Kan.	30.00
11-R. G. Sollenbarger, Woodston,	00.00
Kan,	38.00
12-Rinehart & Slagle, Smith Center,	30.00
Kon	33.00
Kan	30.00
14-L Banker, Burr Oak, Kan	30.00
16-J. E. Joines, Clyde, Kan	36.00
17-W. A. Peats, Burr Oak, Kan	29.00
10 W. M. Peats, Bull Oak, Rad	28.00
18-W. H. Monasmith	28.00
19-B. E. McNickels, North Branch,	
Kan.	29.00
21-H. N. McNickels	2900
22-L. Banker.	80.00
24—E. McNickels.	31.00
25-Jno. Pearson, Clyde, Kau	26.00
25 ½—Al Cummings	28.00
30-C. F. Warren	25.00
31—Al Cummings	34.00
32-Al Banker	35.00
33-W. E. Monasmith	30.00
35-Grant Beanblossom	25.00

Rinehart & Slagle's sale of Duroe Jersay bred sows at Smith Center, Kan, Thursday, Feb. 3, was well attended by both breeders and farmers. It was probably the most successful sale of Duroe Jerseys ever held in Smith county and a great compliment to this firm who have only been in the business two years. Feryone was very much interested in the offering which was in the pink of breeding condition. Many lice things were said about the herd and the gentlemen who are responsible for it. Below is a list of some of the buyers and their post effice addresses.

heir post effice addresses:  1—Henry Williams, Smith Center, Kan.  2—Fearl Pagett, Beloit, Kan	
Von	\$65.00
Rail	45.00
3-A. B. Armstrong, Smith Center,	
Kan	34.00
4-L. E. Palmer, Portis, Kan	39.00
5-L. E. Palmer	45.00
6-Will Body, Smith Center, Kan 7-C. H. Ramaker, Prairie View,	48.00
7-C. H. Ramaker, Prairie View,	
Kan	40.00
8-L. E. Palmer	45.00
9-C. H. Ramaker	62.50
0-L. E. Palmer	34.00
0—L. E. Palmer 1—Geo. Phillippi, Esbon, Kan	35.00
2-M. Landman, Smith Center,	
Kan	88 00
Kan	37.00
4-Ralph Logan	37.50
6-Ira Dillon	89.00
7-I B McCell	33.00
8-E M Myers, Burr Oak, Kan	40.00
9-A B Armstrong	40.00
0I B McCall	45.00
7-J. B. McCall	
Kon	32.50
Kan Menasmith, Formosa, Kan	2000000
Kan	32.00
3-F. C. Grass, Smith Center, Lan	3500
4—Bailey Gates, Athol, Kan 5—W. E. Menasmith	30.00
5-W. E. Menasmith	21.00
f.—F. (' Crass	34 00
7-F. C. Grass	33.00
8-G. T. Pumrey, Riverten, Neb	31.00
f.—F. ( Crass. 7—F. C. Grass. 3—G. T. Punnoy, Riverton, Neb. 3—R. H. Mahin, Atbol, Kan. 5—John Campbell, Smith Cester,	30.00
Van	31.00
6-Ire Dillor Smith Center Kan	32.00
Kan	
9Joines Pet by Strong King, J. E.	
Joines, Clyde, Kan	48.00
Balmos	62 00

KANSAS LAND

KANSAS LAND

#### IF YOU WANT

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

McDonald, Kan.

#### SNAPS IN CENTRAL KANSAS LANDS

320 acres, 270 acres bottom land, 50 acres upland, fair improvements, 200 acres alfaifa land, running water and timber, fenced and cross fenced. A snap at \$40 an acre.

Three miles from town.

160 acres, unimproved, 2½ miles from t
bargain at \$2,750. Write

JAS. H. LITTLE, the Rush County Land Man,

CHOICE KANSAS FARMS in Smoky Valley, Saline and McPherson counties, where yet can raise alfalfa, corn and wheat with profit. Write for information and list David Bachman, Lindsborg, Kan. 150 ACRE FARM,
38 alfalfa, 3½ miles county seat, alfalfa
mill, will net \$30.08 acre profit yearly, mile
station, splendid improvements, new house,
eutbuildings, etc., \$100 per acre. Good
terms. JOHNSTON BROS., Cottonwood
Falls, Kaneas.

COWLEY COUNTY FARM,

169 acres, good six room house, about 80 acres bottom, never failing water, 12 acres alfalfa, 60 acres corn, close to school and church. Price \$7,500. Terms if desired.

R. A. Gilmer, Arkansas City, Kan.

WE WANT WESTERN KANSAS LANDS. We have eastern Kansas lands to exchange. Give legal description, stating distance from town, size of town, lowest cash price, and what you will exchange for McNeill-Martin Inv. Co., Merchants Natl. Bank Bldg., Lawrence, Kan.

#### BARGAIN.

Hotel, 12 rooms, well lucated in Winfield, 10,000 population, 2 story brick building. \$2,500 and will furnish a years lease on it for \$25.00 a month, 80 acres improved, 3½ miles Winfield, \$4,500. New list free. WOOD & SMITH, Winfield, Kan.

#### LIVE AGENT WANTED

In your lecality to assist in selling corn, wheat and alfalfa land. We own thousands of sores in Pawnee and adjoining counties. Write us for a proposition on our own ranches Fritzell & Ely. Larned, Kan.

RENO COUNTY FARM—320 acres, highly improved, fine new house with gas and water in, sandy loam soil, best kind corn and wheat land; price \$14,000. Other bar-

W. W. BARRETT, Sterling.

4 miles county seat, all first class bottom land, 52 acres alfalfa, balance ready to plant, good improvements, near school and church, daily mail and telephone. Price \$6,000. Liberal terms. Other farms. J. E. BOCOOK, Cottonwood Falls, Kan.

30 alfaifa, 60 wheat, 25 winter oats, well fenced, 80 acres woven wire, good 7-room house, stable, windmill, fine water, 4 miles railroad town. Spiendid home and moneymaker. Price \$12,000.

IKERD & GREEN,

200 ACRES IN Marshall County, Kan., three-fourths mile from town, 100 acres in second bottom land, 160 acres in cultivation; balance pasture, 7-room house, cellar, small barn, cattle shed, hog house, orchard, well and windmill. A bargain at \$30 per acre. Good terms. Sunmerfield Realty Co., Summerfield, Kan.

EASTERN KANSAS FARM BARGAIN.
60 acres adjoining Osage City, 32 acres in cultivation, 22 acres of which is in red clover and timothy, 1 acre orcnard, balance blue grass and white clover pasture, 6 room house, barn for 10 head of stock, corn crib, hen house, hog and cattle shed, plenty of good water, close to high school. R. F. D. and telephone, all nice smooth land, and a fine dairy farm. Price \$3,500. For pasticulars write EASTERN KANSAS FARM BARGAIN. a fine dairy instanticulars write
J. C. RAPP,
Genge City,



A FINE HALF SECTION FOR SALE.

Two and one-half miles from South Haven, in high state of cultivation, good house of 6 rooms, nearly new, barn for 10 head of horses, big granny at end, implement shed, cow stable, hog shed, large corn crib, two wells, one in pasture with new mill, most of place fenced and cross fenced with woven wire and hedgeposts, 30 acres of alfalfa hog tight, 100 acres of meadow and pasture, 60 acres of English blue grass, the seed of which made \$18 per acre last year besides pasture; balance of place in cultivation, which is as free from burrs and other weeds as a garden. There is not a more perfect laying half-section in the state, just enough slope to drain fine and not wash, not a ditch or basin on the entire place. In fact, the entire place could be plowed in one land if desired. Soil a rich, black, sandy loam. School thirty rods from improvements. Taking everything into consideration, this place is a bargain at \$55 per acre; \$3,000 can remain on place 5 years at 5 per cent. Just the place for someone wanting a high class half section without fault. A fine proposition for either a home or an investment. For sale by WM. HEMBBOW. A FINE HALF SECTION FOR SALE.

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

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

WRITE FOR FREE LIST

Coffey county farms. Cheapest land in Kansas for the money W. H. CLARK, Gridley, Kansas.

FREE LIST

Dickinson county corn, wheat and alfaife farms. Write today,
Baumgarih & LaPort, Abilene, Kan. FOR FREE INFORMATION

about Clark county and large lists of lands at \$20.00 to \$40.00 per acre, write McFarland Realty Co., Ashland, Kan.

MARION, MORRIS AND DICKINSON County, Kansas, lands. Bargains in improved farms at prices ranging from \$45 to \$80 per acre. Write for big list.

T. C. Cook,

Lost Springs, Kan.

MONTGOMERY COUNTY LANDS. Montgomery county is second in popula-tion and 5th in wealth in Kansas. Write for list of choice farm bargains and prices. W. J. Brown & Co., Independence, Kan.

BARGAINS FOR QUICK SALE. in Clay county farms, in well improved 86 and 160 acre tracts, for January and February. Write for my list, Theres a place for Everybody." George E. Bigler,

Clay Center, Kan NESS COUNTY, KANSAS LAND.

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

J. G. COLLINS, Ness City, Kan.

#### 320 ACRE HOG FARM.

.60 alfalfa, 40 fenced, hog tight, 3 miles Anthony, near school; new house and barn, large new hog house. Good corn, wheat alfalfa land, \$80 acre. Can sell balance sec-tion, which is well improved. Boc...et free. J. E. COUCH LAND CO., Anthony, Kan.

#### EASTERN KANSAS LAND

Where corn, wheat, clover and timethy grow to perfection, \$40.00 to \$60.00 acre. This section has never neen boomed and has been overlooked. Best "buys" in Kansas. List and descriptive literature free. F. C. BRACKNEY, Burlingame, Kan.

HUTCHINSON, KANSAS.

160 acres black, spiendid corn land, 120 under plow, 40 pasture, fine maple grove, orchard, extra good improvements, all bottom iand, 3 miles town, Reno Co. A beautiful farm for \$12,000: terms. Get full description. Smith & Glenn, Over McBurney's.

WHEAT, CORN, ALFALFA AND OATS.

Produce mammoth crops in Barber Co., Kan., adjoining the famous alfalfa county. Oklahoma. I have many good farms and ranches for sale at less than their actual value. Write for full information. J. M. MILLER,

MARION COUNTY RANCH.

1,800 acres, 4 miles railroad town, 600 corn and aifalfa bottom land, balance fine pasture, splendid modern improvements, watered. Unquestionably a pargain at \$75,-000. Liberal terms. Other bargains. Liberal terms. Other bargains.
FULKERSON & BURCHFIELD.

SHARON COUNTY ALFALFA LANDS. Choice corn and alfalfa farms for sale in Barbour county, Kansas. Crop failure un-known. Write for particulars and list. Ad-WILLIAM PALMER,

Medicine Lodge,

GREENWOOD COUNTY STOCK FARM.
Nicely improved 480 acres, 180 under Nicely improved 480 acres, 180 under plow, 225 slightly rolling pasture, balance nice level meadow. Frice \$15,000. Will carry \$8,000 at 6 per cent. Send for free list and descriptive literature.

STAR REAL ESTATE AGENCY, Gridley, Kansas.

#### ACT QUICK.

Owner wants to seil great combination rm. Good buildings, rich bottom, well farm. Good buildings, rich bottom, well set pastures, spiendid shade, unfalling water, springs, good timber, lots, alfalfa, six miles Winfield telephone, R. F. D., everything yon want. Frice \$40 per acre springs, good timber, lots, alfa Winfield telephone, R. F. D. yon want. Frice \$40 per acre. Winfield, Kan.

#### LANE COUNTY KANSAS

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

WARREN V. YOUNG,

# RENO COUNTY FARM

160 a. 4½ mi. from Langdon, good bidgs., 120 a. cuit., 40 a. pasture, best seil. Price \$8,800; terms.

80 a 4 mi. from Hutchinson, 80 a. cuit., no bidgs., black sandy loam soil. Snap at \$6,000. Terms. Other farms. CHAS. N. PAYNE.

#### OKLAHOMA LAND

WASHITA VALLEY LANDS.

From \$10 to \$60 per acre offer great opportunities for investment. They are well lecated near railroads, towns, churches and JOSEPH F. LOCKE LAND & LOAN CO., Wynnewood, Oklahoma.

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

NEW STATE REALTY CO.,
El Reno, Oklahoma.

BECKHAM COUNTY, OKIA.,

160 acres 3 miles Doxey, railroad town, house, barn, 100 in cultivation, 700 peach and apple trees four years old, 140 tillable, \$3,060. Terms. Other farms. Will sell at extremely reasonable prices.

SECURITY INV. CO.,
Mangum, Oklahoma.

FINE ALFALFA FARM.

480 acres, rich, alluvial valley soil, 260
under plow, 25 alfalfa, fair improvements,
living water, good well, 7 miles railroad,
\$85.00 per acre. Terms. Many other snaps.

W. C. ATKINSON.

Okiahoma.

REAL ESTATE BROKERS.

Mangum, Okia. Lands that produce big erops of cotton, affaifa, corn, wheat and all other staples, at very reasonable prices.

Write for free list of bargains.

McMillan & Lanford,
Mangum, Oklahoma.

ALFALFA RANCH, KIOWA COUNTY, 160 acres. dark loam, valley land, sub-ir-rigated, 10 ft. to water, 2 miles good town; all tiliable. 130 cultivation, 25 alfaifa, fenced, well, good buildings, clear. Price \$6,250; \$1,250 cash, balance easy terms. Other farms. 96,280; 71,200 Other farms. H. H. ANDERSON, Oklahoma.

IMPROVED FARMS.

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

Vinita.

Oklahoma.

MCLEAN COUNTY.

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

BYARS REAL ESTATE CO., Okiahoma.

### NORTHERN OKLAHOMA

Write to the undersigned for new state map and descriptive circular and price list. Improved farms from \$35.00 to \$50.00 per aere. J. M. FUSS & CO., Medford, Okla.

"HOUGH SELLS THE EARTH."

in Caddo County, fertile, rich, cheap, Send 16 cents in stamps for handsome colored essunty map of Okiahoma, circulars and list. Letters answered in German or English. W. R. Hough, Apache, Okla.

#### ALFALFA, CORN, WHEAT.

and broom-corn are making our farmers rich. Lands can still be bought for \$20.00 to \$35.00 per acre; worth double the money. Write for prices and descriptions, stating what you want.

GRANT INVESTMENT CO.,
Thomas, Oklahoma.

ALFALFA AND CORN FARM FORCED TO SELL AT ONLY \$15 AN ACRE.

280 acres, 200 fine smooth land, 80 acres rolling, fine deep dark loam soil, 3 miles good town, plenty of timber, everlasting soft water, two sets of improvements, 5 acres alfalfa, cut 6 times a year, 100 acres in cultivation, fine agricultural and stock farm, men in Mexico and will sell cheap, mome bottom land, ½ mile to school. Must go at once. Write or wire at our expense. Champion alfalfa field of the state just north of this.

A. P. HARRIS, Owner.

Elk City, Okla.

## 160 ACRES

4½ miles of R. R. town, 7 miles of county seat, 120 a. in cultivation, 100 a. wheat, with farm, 4 a. alfalfa, 4 room house, barn for 16 head, large machine shed, granary, hog lets, good water and mill, A 1 alfalfa land, 2 miles of school, R. F. D. Possession now. Frice until March 1, \$7,500 with easy terms.

BATTEN REALTY CO.

Grant Co. Medford, Okla,

#### MISSOURI LAND

STOCK FARM SPECIAL.

\$50 acres, ½ mile from station, 50 acres in cultivation, 310 acres pasture, 3 good springs, plenty of good timber, good house and barn, good well. R. F. D., telephone. A fine stock farm. Price \$20.00 per acre, half cash, balance to suit purchaser. Call or write AURORA RELLTY & INVESTMENT CO., Aurora, Missouri.

100 ACRES
9 miles from Carthage, 2½ miles from Reeds, 1-4 mile to school, R. F. D., on gravel road, orchard and well of fine water, all in cultivation, fair improvements. Price 55 per acre. For particulars
A. C. STEMMONS.

Carthage,

#### MISSOURI FARMS.

Why not come to Cass county, Mo., where the blue grass, white clover, red clover and timothy grows in abundance. I have a few good farms for sale only a few miles from Harrisonville, the county seat, one of the very best towns in the state, of two thousand population. We are only furty-five miles are swill of Kanasa City.

W. L. Addy Moves.
W. L. Addy, the voteran Durco Jersey breeder, has bought a farm at Newada, Mo., and will again embark in the breeding business. He will live in Neveda, the breeding business to be carried on by W. F. Jewett. After March his address will be Nevada, Mo.

Drybread & Baker Sell March 16.
With this issue Sam Drybread and J. J.
Baker, two well known Duroc breeders,
start the advertisement for their March 16
sale. They will sell on this date a very
fine lot of brood sows, all from the most
popular blood lines and bred to the most
noted sires. Look up the ad and send for
a catalog. Kindly mention the Kansas
Farmer.

Dingman Sells March 16.

C. W. Dingman, one of the state's most prominent Poland China breeders, will hold his annual bred sow sale at the Dingman farm-just north of Clay Genter, Kan. Thursday, March 10. The offering will consist of about 40 tried sows and gilts, about 20 of which will be big, growthy gilts sired by the great champion Voter and out of very large sows. There will be about 12 tried sows, everal of which will have Voter litters at foot sale day. Among the big sows will be Perfect Tecumseh, a sow that weighs nearly 700 pounds. She is a Tecumseh bred sow and just the type for a brood sow. She will be in pig for an April litter to Voter, Creole, a daughter of old Expansion and litter sister to Philanthropist, will have a litter by Voter. Panzy A. a large smooth sow, is in pig to a son of the noted big sow Miss G. Nettle Keep On, a large sow out of Miss G. Nettle Keep On, a large sow out of Miss G. Nettle Keep On, a large sow out of Miss G. The offering as a whole is a good one and should attract the attention of farmers and breeders who believe in the large, smooth sort. For catalog write Mr. Dingman at Clay Center, Kan., mentioning Kunsas Farmer.

Frank Elder Makes Good Sale. Frank Elder Makes Good Sale.

A good crowd of breeders from three states assembled to help make Frank Elder's first sale a success. The offering was one of the best ever seen in one Kansas sale, and should pechaps have sold for more money. The tried sows averaged a trifle over \$65 and the entire offering almost \$55. The great breeding boar G. C's Col. sold at a sacrifice, going at \$100 to Thompson Bros., of Garrison Kan. W. T. Hutchinson of Cleveland, Mo. topped the sale at \$125, buying No 3 in catalog. Red Princess. A list of the leading sales follows: follows: Lot 1—Thompson Bros., Garrison, Kan.

ville, Kan.

Lot 19—G. W. Carney, Urion,
Lot 10—Fred J. Miller, Wakefield,
Kan.

Lot 11—George M. Hammond, Manhattan Kan.

Lot 12—Chas, Hagenbuch,
Lot 13—W. T. Hutchinson.

Lot 14—Thompson Bros.
Lot 15—Samuelson Bros.
Lot 20—R. F. Harris, Guthrie, Oklas.
Lot 21—Fred Miller.

Lot 25—C. E. Lankford, Creighton,
Mo.

Riek, Green, Kan.

S5.00

Frankfort, Mo.
Lot 28—J. Riek, Green, Kan.
Lot 30—Dr. Norman, Frankfort,
Kan.
Lot 31—J. Reik.
Lot 51—E. P. Flannigan, Chapman,
Kan.

Miller & Manderschied's Poland China Sale.

The bred sow sale held by Miller & Manderscheid, the Poland China breeders of St. John, Kan., on the farm of F. J. Miller, Friday, Feb. 13, was fairly successful. The sale was well attended, and was well supported by local buyers. There were several mail order bids handled by newspaper representatives, and a number of breeders from the vicinity of Larned were in attendance. This sale was representative of the class of hogs that these gentlemen raise by using the champion boar Feerless Perfection 2d 125617, and his assistants On The Spot 144055 and Prince Meddle 147695. A total of 47 head was disposed of at an average of \$34. A number of these were young, and the following is a report of those selling for \$20 or more:

1—H F Pelphrey Humbeldt Kan \$82.56

25—G. W. Roberts, Larned. 36.00
26—H. N. Holdeman, Meade. 36.00
27—G. W. Roberts. 28.00
28—E. A. Herbert, Mulhall, Okla. 23.00
29—C. D. Evans, St. John. 20.00
30—S. W. Artz, Larned. 20.00
32—E. G. Long. 20.00
33—G. R. Leeper St. John. 20.00
34—W. P. Warner 36.00
37—Dave Ridge, Larned 27.06
38—C. D. Class, Gorham 25.00
39—C. B. Evans 23.00
43—W. A. Endicott, Stafford 21.00
44—W. A. Endicott. 21.00
44—W. A. Endicott. 31.00
45—G. W. Roberts 31.00
45—G. W. Roberts 31.00

Minor & Cross Sale.

Minor & Cross Sale.

Minor & Cross' sale of Duroc Jersey bred sows at Superior, Neb., on Feb. 9, was fairly well attended. Those who did attend were loud in their praises of the offering and backed up their praise by liberal bidding. The average on the entire offering of 47 head was \$35.50. The top was No. 31, which was a very fine sow sired by Pearl's Golden Rule and out of a Son of Champlons dam. She went to Ward Bros., Republic, Kan., for \$82. Minor & Cross are young men of the highest standing at home and out smons, the Durot Jersey, preeding frateralty.

#### OKLAHOMA LAND

#### OKLAHOMA LAND

A RARE SNAP.

160 acres adjoining town, all in cultivation, good house, been, granary, good orchard of all kinds of fruit, fenced and cross fenced. This is one of our best bergatas and if you are interested do not delay. (First come, first served.) HUNTER REALTY COMPANY (Est. 1893.),

"WE SELL THE EARTH."

Farmers grow wealthy in a short time in Custer and adjoining counties in Sma-homa growing hogs, corn and alfalfa, Farms at from \$30 to \$50 per a. Write us for land list,

DULANY & BANDOL,

IF YOU have money to lean on good farm and city security, write John Hankins, Chickasha, Okla.

FREE—Interesting felder describing Alfalfa County, best in Oklahoma.C. Bradley Sons & Co., Cherokee, Okla.

Alfalfa County Farms for sale at less than their actual producing value. Write Hood & McFadden, Cherokee, Okia.

CORRESPOND with us about Garfield o. lands. McCarty & Plumley, Enid, Okis. WRITE FOR FREE LIST of Caddo County farms and descriptive Herature, Many big bargains, E. C. SCHLITT, Anadarko, Okla.

FREE INFORMATION about Oklahoma. Homer H. Wilson. Here since 1893. Enid, Okla.

FOR FREE INFORMATION
about Lawton and Comanche county lands.
\$20 to \$75 per acre, write to or call on
BROWN & FOWERS, Lawton, Okla.

Best in Oklahoma for homes or investment, Your address on postal card will bring descriptive list and literature.

BALDWIN & GIBBS CO.,
Anadarko, Okla.

OKLAHOMA FARMS.

Bust county for corn. wheat, oats, alfalfa and tame grass 80 acres \$3,500. 169 acres fair improvements, \$4,000, Write for list of bargains.

VOGELE & WOOD. Newkirk, Okla.

A CUSTER COUNTY BARGAIN.

160 acres, 2 miles R. R. station, 80 in cultivation, 65 feaced in pasture, fine water, four-room house. Price \$2,800; easy terms. Many other bargains. New list free.

HUGHES & SORTER,
Custer City. Okiahema.

BNAP. 160 acres, 16 miles Okeene, 20 alfalfa, 56 wheat, 40 corn land, 56 pasture, house, barn, wells, smoke house. Farm implements, young mare, buggy, etc., go with farm; \$2,500 for 60 days, List free.

RUSSOM & PROFFIT, Okeene, Okla.

CORN, OATS, WHEAT
and alfalfa and all staple crops grow to
perfection here in the garden of Oklahoma.
Prices reasonable. Write for list and descriptive literature.
C. E. POCHEL,
Newkirk, Oklahoma.

EANTERN OKLAHOMA.
Improved farm, 180 acres, good, new house. Haif section of unimproved land, very fine. Several other good bargains. Write me if you want to know about Eastern Oklahoma T. C. BOWLING, Owner, Pryor Creek, Okla.

BLAINE COUNTY OKLAHOMA.

220 acres, level, all tiliable, all alfalfa
lcud, house barn, granary, orchard, fenced,
5 miles 3 railroad towns, 1-3 200 acres
growing wheat goes \$12,500. Easy terms.
Own other farms.
ED, BAKER, Owner, Watongu, Okla.

CADDO COUNTY, OKLAHOMA,
Corn, wheat, cotton and alfalfa landa,
\$20.00 to \$75.00 per acre, according to improvements and distance from tewn. Lands
are advancing rapidly. Now is the time
to buy. Write for full information. J. ELZIA JOHNSTON,

CORN, WHEAT AND ALFALFA LAND in the great new state of Okiahoma. In Cimeron Valley, where all kinds of crops do well; fine stock country, where the hog and alfalfa grow to perfection; land is yet cheap, but advancing very fast, For full description write. description write Okeens, Okla.

BARGAINS.
Chicken and garden farm, 2½ acrea, new
five room house, new barn and yards, close
in Enid property; \$3,000, easy terms.
Large soven room house, new, modern,
close to school, best residence part of Enia. Okia., \$3,900; terms.
TEXAS & OKLAHOMA LAND CO.,
Okia.

WHEAT, OATS, ALFALFA, COTTON,
Good lands \$30 to \$60; produce big interest on capital invested. Well located near
thriving and growing city. Prices and descriptions free. Correspondence answered
in either German or English.
LONE WOLF REAL ESTATE & INVESTMENT CO.,
Oklahoma.

Oklahoma Lone Wolf,

TWO EXCEPTIONAL BARGAINS.
560 acres fine second bottom, above overflow, 3 ml. Wagoner, 17s acres cultivation,
25 acres good timber, balance good grass,
all tillable and smooth, at \$35.60 per acre.
Adjoins land sold at \$42.50.

160, 3½ S. W. Wagoner, good new 5-room
house, fair barn, nice young orchard, 80
acres cultivation, balance good hay meadow,
at \$35 per acre. Write for information.
W. H. LAWRENCE,
The Land Man, Wagoner, Okia.

The Land Man, Wagoner, Ukis.

640 ACRES OF DEEDED LAND: 200 acres of this is first class farming land; 400 acres of Indian land, leased and under cultivation; 3,000 acres of first class grazing iand (Indian), leased for term of years; excellent water and good grass; very cheap lease. Good two story house of 8 rooms; water in house; hen house, cave, good grain elevator, cales, corrais and everything in first class shape, and the farm land is of the richest. Plenty of timber for wood and plenty of shelter for stock, and is an ideal farm and cattle ranch very desirably incuted; 2 miles to railroad. Steam plows, farming tools, horses and everything in consecute with this ranch goes.

Major County corn, wheat and alfalfa lands, Lowest prices. Best terms Information free. J. Nile Gedfrey, Fairview, Okla.

FOR FREE INFORMATION about Beck-ham county, Okla., land at \$2,000 to \$6,000 a quarter, write to or call on E. A. HOLMES, Real Estate, Erick, Okla.

#### MAJOR COUNTY, OKLA.

160 acre farm, \$1,150. 320 acre improved farm, \$6,500. Write for list. Send 25 cents for map of Oklahoma, Texas and sectional map of Major county.

Fairview, WILL J. GRAVES, Oklahoma.

MAJOR COUNTY, OKLAHOMA

Corn, alfalfa, wheat and broom-corn lands at \$15.00 an acre and up. Great investment opportunities, Great chance for the homescaker. Write for prices, descriptions and full information.

S. E. COLBY, Oklahoma.

ALFALFA FARMS

in the famous Washita Valley. We can self you as good land as there is in the United States at from \$40 to \$75 per acre. Come and judge for yourself. You will be convinced when you see our beautiful valley.

THOMPSON & McCONAHEY. Paula Valley.

WASHITA VALLEY LANDS. Good corn and alfalfa farm four miles Fauls Valley, one mile State Industrial School, 170 acres, 150 under cultivation. 150 acres Washita Valley, 6 room house. Above overflow. Electric line soon. Price 118 626

O. W. JONES, Oklahoma. Pauls Valley.

GOOD FARM,

GOOD FARM.

160 acres, 6 miles Tecumseh, 80 in outstation, good buildings, 5 acre orchard, in fine good bearing condition, marketed 1,000 bushels in 1909. Price \$2,500: easy terms Other farms for sale on small payments and long time.

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Where corn, wheat, alfalfa and cotton are making the farmers rich. We specialize on Oklahoma, Cleveland, Logan and Washita counties, Fine alfalfa lands, \$30 and upward. Write for list and printed matter, mailed free. We also lead all in Oklahoma City property.

FARM & HOME INV. CO.,

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560 ACRES of bottom land, 6 miles from Cold Springs and 10 miles from Roosevelt, both railroad towns in Klowa, Okla. ecres in aifaifs, all under fence, most of it hog fence, good improvements, living wates, very best of corn and alfalfa land. Price \$32,500. Write for free list of lands in Okishoma. JENKINS & MAJOR REAL ESTATE CO.,

OKLAHOMA FOR HEALTH AND
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20 acres, 7 miles from Texols, Okla.,
R. F. D., school 1-2 mile. 200 acres lies
nearly level and all tiliable 140 acres under cultivation, 120 acres fine pasture land,
supplied with plenty of living water and
good grass. Has small house, sheds and outbuildings. Well and windmill, 1f you
want a farm where you can raise good
crops and keep a bunch of stock, you
should see this one. A farm and ranch
combined. \$2.500, on liberal terms. Bend
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360 acres fine second bottom, practically all in cultivation; 2 miles from railroad town; three sets of buildings; telephone, rural mail; school in one corner; this land will raise 75 bushels of corn, or a bale of cotton to the acre. Price \$55 per acre; terms on part.

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FINE IMPROVED 160, 5 miles out, \$5,700. Terms. L. E. Thompson, Norwich, Kan.

EIGHT THOUSAND ACRES of fine farming land for sale in tracts to suit purchaser. Address Joe Thomas, Cold-water, Kan.

WILEON COUNTY BARGAIN. 160 acres, 36 in cultivation, 25 prairie neadow, 8 alfalfa, balance pasture. Good prehard, 5 room house and barn, free gas, tear school, R. F D. price \$35.00 per acre. For further particulars write shannon & Harshfield, Fredonia, Kan.

CORN AND ALFALFA FARM. 247 acres fine bottom. 1½ miles town, 160 in cultivation, 30 alfalfa. 75 wheat, fine orchard and grove, 9 room house, barn, all necessary outbuildings. Write for price and list.

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8 miles Minneapolis, 5 miles market, 15 pasture, 5 meadow, balance plow land, 1-3 crop to buver, ½ mile school, R. F. D., telephone, \$50.00 acre, terms. Other farms for sale and exchange. List free, Minneapolis, Kan. 160 ACRES UPLAND.

140 in cultivation, 10 meadow, 20 pasture, house, barn, well, mill, tank, orchard, R. F. D., telephone: 4½ miles Enterprise, 3½ Chapman, 1-8 of 65 a. growing wheat goos. \$5,000 if sold soon. New list free. Ford & Smeltz,

4 mile St. Marys, on main line U. P. R. R., 90 miles west of Kansas City; 200 acres under cultivation; 115 fine alfalfa, 85 corn. balance grass; fine improvements; \$55.00 per acre; easy terms.

3. M. Conlan. St. Marys, Kan. 560 ACRES

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640 ACRES,
400 wheat, all goes, 40 alfalfa, all alfalfa
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barn, new granaries, fine orchard and grow,
watered by creek, \$40 per acre. Terms,
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160 a., 80 a. in cult., 80 a. pasture. Good 4 rorm house. Barn 1cx32. Cow barn 16x40. All fenced and cross fenced 30 a. hog tight. Large well and soil. is good 5 miles of Norwich. Price \$6.400. Easy terms. Other bargains for sale.

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160 acres, 3 miles town, 110 cultivation, balance pasture, 4 room house, barn, 65 acres wheat, all goes with possession. \$6,500. Easy terms. New list free J. 8, Boyle, Bennington, Kal.

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200 acres good soil, 3 miles from Atchison, 1,500 people. 45 acres in Jonathan, Ben Davis and Missouri Pippin apples, rest in crops and pasture with running water, eight room house, barn and well with windmill near house, also 3 room house with excellent cellar and chicken houses, all in good repair. Price \$100 per acre. Will sell all or half. For terms address Atchison, Kan.

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The best 400 acre stock and grain farm in southeastern Kansas. Fine improvements, up-to-date and everything is first class. It's "Dinger." Write me for full description.

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240 acres 2½ miles from Palmer School, at northwest corner of land, 110 acres in cultivation, 50 acres bottom land, 70 pasture, fenced; 10 acres bottom hay land, two sets improvements and running water. Price \$45.00 per acre.

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280 acre farm in Greenwood Co., Kan., and four miles from a good town. Good house, barn, lots, orchard and water. 170 acres in cultivation, balance pasture and mow land. This is the best of land and a fine all purpose farm. Price \$25 per acre and good terms on \$4,000 if desired.

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240 acres, 185 acres in cultivation, 20 acres pasture, 35 acres meadow. 4 room bouse, good well of soft water, 10 miles from town. 1-3 of 140 acres wheat to purchaser. Possession at once. Price \$8,600. Write for list.

V. E. NIQUETTE,

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880 acre ranch, 250 in cult., bal. good grass, pasture fenced, living water in pasture, house 7 rooms, granary 30x34, stable for four teams, cow barn, sheds, lots, well, windmill, tank, 10 a, timber, 6 mi, Spearville; price \$7.00 acre; terms; no trades; good for big list. Address Spearville, STINSON & WEYAND.

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320 acres, 10 miles Topeka, 5 mi. small town, all smooth land; 225 acres cult., bal. all smooth pasture; 100 acres wheat; improvements: good 7 room 2 story house big new barn, good outbuildings; good orchard, 100 acres fenced hog tight. Good water. This is the best upland half section in Shawnee county. Price \$70 per acre.

160 acres improved, 9 mi. out, \$50 per acre. 160 acres, well improved, 10 mi. out, \$60 per acre. 160 a. 10 mi. out, all bottom, well improved. 2 miles good town, \$100 per acre. 158 acres 9 mi. Topeka, 1½ mi. station, well improved, \$60 per acre. Farms of all sizes and prices. See us before buying, as we have the big farm trade of this locality. locality.

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of securing for our lists the very best bargains to be held in both small and large tracts. We can at all times accommodate both the homeseeker and investor with the best things obtainable in our county. Improved and unimproved farms for either cash or on time. You ought to know more about Ness County and the opportunities existing here. Write us today for booklet, lists and full information or come and see us. R D MAKINIEV

Kansas.

Comanche County Farm Bargains.

Half section, 1 mile Coldwater, fenced and cross-fenced, 220 acres good plow land, 60 in wheat, balance pasture; good well, windmill, tank, wind break and corral, Price \$12,000. ½ cash, balance easy terms. 800 acre farm and ranch, 10 miles Coldwater, fenced and cross fenced living creek through center, 5 room house, 200 acres under plow, 25 in alfalfa, 80 more good for alfalfa, soft water 5 to 25 feet. Price \$16,000; ½ cash, balance 3 and 5 years at 5 per cent.

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640 acres all in one section, 22 miles north of Wichita 2½ miles from good town with 2 railroads. Has two splendid sets of improvements, two large alfalfa barns, 300 ton capacity each. Fine corral and feed lots in the timber on the creek, automatic feeder with shelter for 150 cattle. Stock scales, 3 steel wind mills and tank, pasture and feed lots also watered by good stream of living water. Plenty of timber for fuel and shade along the creek. About 340 acres of bottom land in cultivation, 200 acres well set to alfalfa, 300 acres prairie pasture. Hedge around entire farm, cross fenced with American woven wire. All of cultivated land fenced hog tight. This is a money maker and can be bought for \$62,500.00. Terms on all over \$35,000.00. I am prepared to supply detailed description and send photographs to man or company able to handle it. Address

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231 E. Douglas Ave., Wichita, Kan.

231 E. Douglas Ave., Wichita, Kan.

have well improved farms of their own and are well to do. This was their first sale at Superior and very fair prices were received considering the condition of the roads. Below are the principal bueyrs:

1. W. E. Monasmith, Formosa, Kan., \$46,
2. W. E. Monasmith, \$66
3. Ben Merrimee, Bladen, Neb., \$40,
4. M. Warner, Superior, Neb., \$35.
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\$45.
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18. D. W. Stickley, Guide Rock, \$36.

20. Wm. Graves, Bladen Neb., \$41.

21. W. C. Henderson, Superior, \$30.

22. W. C. Henderson, \$25.

23. W. D. Sanders, \$33.

29. Fearl H. Pagett, Beloit, Kan., \$57.50.

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31. Ward Bros., Republic, Kan., \$35.

34. Geo Briggs & Son, \$30.

35. C. Badger, Hardy, Neb., \$34.

46. Ben Merrimee, \$55.

35. Geo Briggs & Son, \$30.

35. C. Badger, Hardy, Neb., \$34,

46. Ben Merrimee, \$55.

Harter Sold Good Bunch at \$41.50 Average.
J. H. Harter's sale of big type Foland China bred sows drew a big crowd of farmers and breeders. The offering was a very attract've one and would have sold for several dollars more per head had a larger per cent been bred for early farrow. But the average of \$41.50 on nearly 50 head shows the demand for the kind Mr. Hartor breeds. W. C. Singer of Hiawatha, Kan., topped the sale at \$30, buying No. 2, a tried sow in pig for early farrow to the big boar Mogul's Montrch. Following is a list of sales at \$35 and upward:

1. A. H. Brenner. Havensville, \$75.
2. W. C. Singer. Hiawatha, \$30.
3. B. F. Thompson, Havensville, \$65.
4. Lee Gross, Nodaway, Mo., \$57.
5. Geo. Pfeifle, Green, \$47.
6. B. F. Thompson, \$37.
7. Elmer Modine, Olsburg, \$45.
9. A. M. Comer, Westmoreland, \$35.
10. W. B. Hays, Westmoreland, \$35.
11. Ernest Hogg, Circleville, \$37.50.
12. A. B. Demming, Westmoreland, \$40.
13. Geo. Pfeifle, \$38.
14. Tom Brooks, Manhattan, \$36.
15. U., A. Umsheid, Flush, \$35.
16. B. F. Thompson, \$60.
17. Elmer Modine, \$37.
18. Chas. Reiner, Flush, \$42.50.
19. Chas. Reiner, Flush, \$42.50.
19. Chas. Reiner, Flush, \$40.
22. Roy Winter, Westmoreland, \$40.
23. Geo. Pfeifle, \$38.
20. F. D. Young, Winchester, \$45.
24. A. D. Demming, \$38.
25. Roy Johnston, South Mound, \$36.
27. A. H. Brenner, \$48.
31. H. Downey, Blain, \$40.
32. Chas. Relner, \$38.
30. A. H. Brenner, \$48.
31. H. Downey, Blain, \$40.
32. Chas. Relner, \$41.
34. Fd. Hough, Blain, \$34.
35. O. M. Mead, Holton, \$46.
37. H. Downey, \$35.
41. Ed Welter, \$62.
42. Jas. Lalla, Holton, \$36.
44. F. D. Young, \$37.50.
45. J. Pendegast, Westmoreland, \$37.

About Seed Corn Testing.

The necessity of testing seed is admitted

42. Jas. Lalla, Holton, \$36.
44. F. D. Young, \$37.50
49. Tom Brooks, \$36.
50. J. Pendegast, Westmoreland, \$37.

About Seed Corn Testing.

The necessity of testing seed is admitted by all. The farmer who plants his corn without testing is very short sighted, and a farmer who does it cannot expect to make a success of corn growing and if he handles the rest of his farm in the same way, he had better quit farming. There is a better way to test seed corn than hy using the pan of dirt or the box of saw dust. These were good in their days, but a better method has been found. Mature corn has a certain marked resistance to cold water and the water test had a distinct advantage—in fact, it is the only real test. Mature corn has an oily coating around every kernel that is impervious for a considerable 'lime to cold water readily and immediately starts to swell and sprout, if it contains life. Nature assuredly knows what it is doing; and she has so protected corn, wheat, weeks—in fact, all seeds that they can lie in the wet, cold ground and not sprout. Every farmer has seen volunteer cats, corn, wheat, etc., where the seed has lain out all winter. It didn't rot, it didn't sprout. Why Because nature has supplied a coat rowering for it that protects it. But so were the seed has lain out all winter. It didn't rot, it didn't sprout. Why Because nature has supplied a coat rowering for it that protects it. But so were warm and it cannot well be done in a saw dust tester that is constantly drying out. Now, granted that it must be warm. The next thing to do is to get thorough saturation, get the kernel thoroughly soaked. We will all agree that soaking the corn in cid water will, after a while, penetrate the coat and soak the kernel; but warm water does it better and more quickly. Now, while cold water will, after a while, penetrate the coat, the soft, immature kernels will, even in warm water, take the moisture more quickly than the hard, oily, well matured kernels containing much fat or feeding very fine balls on the order of a

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corn, wheat, alfalfa lands: reasonable
prices; good terms. These lands are in the
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OTTAWA COUNTY FARMS.

In the famous Solomon Valley, where corn and alfalfa make money for the farmers every year. We sell these lands at reasonable prices on good terms. Write for full information.

McMillan Loan & Realty Co.,
Minneapells, Kan.

SOLOMON VALLEY LAND.

200 acres river bottom. 20 timber, 30 al-faifs, balance cultivated, 6 room house, barn, other outbuildings, 3 miles market, 5 county seat. Terms. \$85.00 acre. Other farms, sale and exchange, List free. A. E. Robinson Land Co., Minneapolis, Kan.

CORN AND ALFALFA FARM.

53 acres, river bottom, 6 room house, good new barn, 2 wells, windmill, family orchard, double granary abundance large shade trees, 2½ miles good market, some alfalfa. Write for price and full description free. Box 114, Minneapolis, Kan.

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Of 120 acres 4 miles out, 7 miles to county
seat, good roads; 75 a. in cuit., 45 a. pasture, 2 a. alfalfa, some orchard, land lies
fine, 2 a. hog tight, good well, windmill
and tank, pond in pasture; 1½ story frame
house 16x24, barn for 8 head, cow barn, hen
house, granary, etc.; 30 a. wheat, 1-3 goes
to purchaser. This farm can all be put in
cultivation except about 10 acres; good soil,
fine location, on R. F. D. and telephone. A
bargain at \$46 per acre. Terms on part.
Get our list.
Shepard & Hoskins, Bennington, Kan,

LAND BUYER

We have what you want in improved farms. Fine location, good soil, water, R. F. D. and telephone. Prices right. Possession March 1st, any size farm you want. Also 480 acre farm to rent. Too near spring to wait to write, clip this ad and come. Large list to select from.

MANSFIELD LAND CO., 204 S. Main St., Ottawa, Kan.

Both Phones.

"BIGGEST BARGAIN YET"

Owner leaving country, must sell quick his 160 acres well improved valley farm, 4½ mt. from Lindsborg—all good land, corn and alfalfa soil, 6 room house, large barn, granary, other buildings, all in first class condition. If soid soon owner will take \$8,500. 65 acres in wheat—all go with sale. This farm is worth \$60 per acre. Write JOSEPH A. BRANDT.

K-2 Lindsborg. Kansas.

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Bersie Real Estate Agency, Eldorado, Kan.

BARGAINS.

We have some good Emporia properties, automobiles and hardware stock to trade for good land in Ford or Meade counties. Write us full description of your property in first letter.

H. L. DWELLE & CO., Emporia,

FOR SALE OR EXCHANGE, WEST

CENTRAL KANSAS LAND.
Wheat, corn and alfalfa lands, Lane and
ove counties, \$15.00 to \$25.00 acre. Prices
dvancing rapidly. If you have a good
vade to offer write us. Abilene, Kan. W. H. Dayton Land Co.,

FOR EXCHANGE

320 a. in Anderson Co., Kan., 5 ml. from R. R. town, improved; good farm, price \$45 per acre, mort. \$4,750. Wants merchandise or small farm for equity. Write for list of bargains of sales and exchanges. SPOHN BROS.,

NICE HOMES, GOOD BARGAINS.

40 acres, close to Emporia, choice land, good improvements, close to school, \$6,000; 184 acres, half good creek bottom, living water, plenty of timber, 60 acres fine alfalfa, good improvements, \$65 per acre; 320, Greenwood county, well improved, splendid land, fine orchard, \$45 per acre, would take smaller farm on this. J. M. McCown, Emporia, Kan.

the water, sprinkle occasionally to keep moist and see if a good root and sprout does not develop during the next few days without you giving it any soil. Also note after the roots and sprout are well developed that the kernel is only a shell, all the inside having been eaten up or kone to supply food to start the sprout and roots. You need no soil or saw dust to germinute corn. Water is all you need and I wouldn't, under any circumstances, use any other than the water test. There is but one thing the saw dust tester does. It ploks out the live ears from the dead ears; and that is all it does. The water tester not only does that, but it ploks out the weak ears from the strong ears; and enables the farmer to plant the real good, strong ears, while the saw dust tester, if it does anything besides pleking out dead ears, causes the farmer to plant the weak, starchy corn, which while it will grow, will not stand a cold, wet spring, a late frost, a long drouth or an early frost in the fall.

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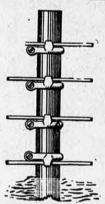


Read and re-read, and then memorize the fol-

then memorize the following: The champion Holstein cow of the world averaged for 365 days 75.2 pounds of milk and 2.74 pounds of butter-fat a day; 19.2 pounds of butter-fat a week, totaling 998.20 pounds of butter-fat from 27,432.5 pounds of milk in the 365 days. This shows an average for the year of 364 per cent of butter-fat the year of 3.64 per cent of butter-fat. This is equal to 13,063 quarts worth \$1,175.76 at the present price of 9 cents, or 1,164.63 pounds of butter worth \$442.56 at 38 cents per pound. This is a true story of one cow. Doesn't it give you a reason for using Holsteins? Remember

"Holsteins are the m at profitable cattle."
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HOLSTEIN-FRIESIAN ASSOCIATION, 100 American Bldg., Brattleboro, Vt.



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5,000 for sale at 22 cents each. Will last several times longer than wood posts, made from iron pipe 2 inches diameter. 7 feet long fitted with malleable iron clamps that will hold any kind of wire, write for our post circular. cular.

THE M.-K. FENCE CO., ST. JOSEPH, MO. 816 N. 3rd. St.

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is my motto. Reasonable charges and good service. Choice of dates if you write early.

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PEDIGREED LIVE STOCK Write me for dates. BUNCTON, MO.

#### J. H. MOORMAN.

Live Stock and General Farm sale auc-tioneer. Satisfaction guaranteed. Long distance phone connection.

SOLOMON,

KANSAS

## THE STRAY LIST

Wilson County—Clerk.
STEER—Taken up, Jan. 28, 1910, by Ed
Scholler, in Verdegris tp., one red yearling
steer, crop off right ear, no horns and small

Nechso County M. Johnson, Clerk. SOWS—Taken b., en or about Jan. 1, 1910, by L. H. Anderson, in Centerville Tp., four sows as follows:

Two of them glits, Poland Chinas, color black, one with some spots, each weighing about 200 pounds, age supposed to be 8 or 9 months each. One black Poland China sow weighing about 300 pounds, and one black Poland China sow weighing about 275 pounds, with a split snout dropping down on each side. The age of the old sows being a year old or older, possibly 2 years old;

Logan County—C. H. Nolind, Clerk, MARE—Taken up, Jan, 19, 1910, by Jas. Creech, in McAllaster tp., one brown mare, weight about 800 lbs., star in forehead, left hind foot white.

# PUBLISHERS' NEWS

D. Hill of Dundee, Ill., is probably the largest grower of evergreens in America. He makes a specialty of hardy evergreens grown from seed, and several years experience in buying from him convinces the writer that he is an expert in his line. Not only are the trees perfect in themselves and true to name, but they are so thoroughly packed for shipment that they invariably arrive in good condition, and thus far our percentage of loss has been nothing. Evergreens are among the most beautiful trees that can be had about the place and are especially effective as shelter belts for orchards or buildings and their prosence on the farm adds materially to its value, If you try one order from D. Hill of Dundee, Ill., you will be sure to order again.

you try one order from D. Hill of Dundee, Ill., you will be sure to order again.

The railroads of this country are in need of trained men, men who can immediately step in and take positions as firemen, brakemen, conductors and motormen, positions paying from \$80 to \$180 a month right from the start. Their greatest difficulty lies in the securing of men who are properly and thoroughly trained to fill these splendid openings—openings which quickly lead to Jobs "higher up." The Wenthe Railway Correspondence School of Freeport, Ill., offers to young men of this country just the course to equip themselves for these many lucrative positions. This course which is recognized by all the railroads of America prepares a man for a good position, as brakeman, fireman, motorman or conductor. All those enrolling with this practical institution receive a cast iron bond signed by the officers of the school that the position they desire, providing they are mentally and physically O. K. will be given them on completion of the course. It's up to you young man to fit yourself for a good paying, enjoyable, clean job. Get in touch with the Wenthe School at Freeport, Ill. They fit you for the job and place you in it.

Thrashermen Meet at Wichita.

The Interstate Association of Operating Thrashermen meet at Wichita. March 8, 9 and 10, and all reports to the contrary are in error. Arrangements are already completed for entertaining the largest gathering of this kind ever held in Wichita. The active membership of the association has been increased by several hundred during the year, and the executive sessions will bring up matters of great importance to every thrashermen in the southwest. Contrary to any reports that there was to be no March meeting—there will be held in Wichita on March 8, 9 and 10 the largest gathering of thrashermen ever gotten together at one time and place. All thrashermen are welcome whether members of the state association or not.

Good Seed Corn.

This week we start the advertisement of Frank J. Rist, breeder of Reid's Yellow Dent seed corn. Mr. Rist has been breeding pure bred seed corn for several years, buying his first seed from Nebraska Agricultural College while he was a student at that school. He has been selecting and improving this great variety ever since, and at the State Corn Show, held at Lincoln in January had a fine exhibit winning good premiums. It hasn't been Mr. Rist's policy to raise show corn in one field and corn to sell in another. All of his comes out of the rame field, and what he offers in his advertisement to Kansas Farmer readers grew and are raised in the same field and under exactly the same conditions as that he showed and won on at the recent big show. Write at once for sample ear and prices, mentioning Kansas Farmer.

Kansas Farmer Doing Good Work,

"Editor Kansas Farmer:—Enclosed find remittance to pay for my advertising. Will say that the Kansas Farmer is still doing good work for me and I must acknowledge that it is the best advertising medium for my use. I still have a few bred gilts left, sired by Long Wonder and bred to a son of Chief Tattarrax, that I could sell. I also have a fine lot of fall pigs of both sexes to select from, These are now weighing about 125 pounds and were also sired by Long Wonder 21867 and out of such dams as Josie Surprise, Bessie Advance and a daughter of Ohio Chief.—Cedar Lawn Duroc Jerseys, F. M. Buchheim, R. 3, Lecompton, Mo, The Long Wonder mentioned above is a grand son of the International champion Pilot Wonder. He is assisted by Mystic Orion, a grandson of Ohio Chief. Cedar Lawn Farm is five miles south of Lecompton and nine miles west of Lawrence. Phone Mr. Buchheim when you are ready to visit him.

Texas Takes 1,500 Overland Automobiles. The makers of the Overland announce that Texas this year orders 1,500 Overland acars. Kansas takes 1,000, Iowa 1,000, Nebraska 750. Three towns in Kansas, where the Overlands have been known only one year, each takes 200 cars. The total orders for Overlands booked for this year call for \$24,000,000 worth of cars, and the four Overland factories are now turning out 125 cars per day. Yet the Overland is but two years old. When a car comes into a field so closely contested, and outsells all others inside or two years, one naturally asks for the reason. The makers say that the main reason lies in the car's matchless simplicity The operation of the car is as simple as walking. And every part of the car is so automatic that it is almost trouble proof. Then the Overland offers a 25 horsepower car, with a 102-inch wheel base, for \$1,000. They can do this because of their enormous capacity. A man who wants to read something interesting should write to the Willys-Overland Co., Toledo, O., for a copy of "The Wonderful Overland Story."

A Free Shoe Book.

There is no one item of household expense that interests every member of the family more than shoes and there is nothing more agerly sought for by mother, father, or the children than well made shoes that are really comfortable. There is nothing that effects the disposition of the entire family so much as the shoes they wear, for instance, a poorly made, ill-fitting shoe is a torture from the moment you put it on until the moment you throw it away in disgust. You may save a little money in the beginning, but because you throw it away before it is half worn out, it is more expensive in the end. The M. D. Wells Co. of Chicago, are proud of their record as shoe makers, so proud that they have a saying that "If shod in Wells' Shoes you are 'well shod,'"

and in an advertisement on another page of this publication, they are calling the attention of our readers to the merits of Wells Shoes which already enjoy an enviable, national reputation for style, quality, fit and comfort. This firm also manufactures the Malden Brand of Rubber Boots, Arctics and Rubbers, and they are as proud of the quality of this line of rubbers as they are of the quality and wearability of Wells Shoes, Now, about the free shoe book. The M. D. Wells Co., of Chicago, has published a booklet entitled, "Mother, Father and the Children." It fully covers the shoe question for the entire family and any of our readers may have a copy mailed gratis if they will take the trouble to ask for it.

The Present High Price of Meat,
The present high price of meat indirectly emphasizes the need of a cream separator on every farm with even a few cows. Skimmilk has proved such an excellent food for growing pigs that a farmer can scarcely afford to sell his milk unseparated. The best way is to separate the fresh milk, sell the cream, and feed the warm skimmilk to the pigs. The following letter shows how wide-awake farmers look at the situation. The accom-

panying illustration is a group of Mr. Aagenstein's young pigs: Dakota, Ill., Jan. 1, 1910. As to the merits of the U. S. Separator, will say that after turning the crank of a No. 5 U. S. Separator for five years, I am more convinced than ever that the U. S. is the best separator for farm use made. If I were in the market today, for a separator that was to give satisfaction under all kinds of circumstances, I would buy a U. S. machine. The bunch of 27 porkers in the picture were fed the skimmilk from 8 cows, with a little shorts and water added to make the desired amount twice a day. Shelled corn and oats were fed sparingly twice a day until new corn was hard enough to feed, when they were gradually brought up to a full feed of new corn three times a day until sold. For forage they had the run of 1½ acres of alfaifa. These hogs were not fed with a balanced ration in view, but just simply fed such food that was to be had on the farm, without paying fancy prices. I have fed nearly all kinds of mill feeds, but could never find anything that would give the same results as skimmilk will. And at present prices of mill feeds, I would consider 50c a hundred for skimmilk not too much. I am satisfied these hogs would not have made the gains that they did without the addition of skimmilk. And why the average farmer is so slow to hogs, I am at a loss to know I remain yours respectfully, A. A. Augenstein.



# Mitchell County Breeders' Association

C. B. KERN, President.

J. F. HOWARD, Secretary.

Nothing but first class animals offered for sale for breeding purposes.

#### SHORTHORN CATTLE.

SHORTHORN CATTILE—50 head registered cattle. Herd headed by Royal Goods 293325, by Select Goods, by Choice Goods. Young bulls ready for service for sale. MEALL BROS., Cawker City,

A YOUNG HERD of up-to-date breeding. Everything recorded, Our herd bull Alfonso by Magnet has produced us some great calves this season. BRINEY & BRINEY, Beloit, Kan.

LOCUST GROVE SHORTHORNS. Will sell three extra good Scotch topped yearling bulls in the F. B. Cooke Dispersion Sale Feb. 22. Send for cat-alog. Elmer C. Creitz, R. 7, Beloit, Kan.

BOOKDELL STOCK FARM.
Shorthorn cattle, Poland China hogs,
Silver Laced Wyandottes.
E. E. BOOKER & SON.
Ralat.
Kansas.

FOR SALE—A few young Shorthorn cows and some young buils ready for service. Best of breeding. Write for information and prices. VINTON A. PLYMAT, Barnard, Kan.

#### HEREFORD CATTLE.

HEREFORD BULL CALVES for sale. Berkshire boars for sale, spring farrow. Will trade 2 or 3 for gilts. Boars by Commander out of dam by Speculation; grand dam, Alice Majestic, champion sow at Kansas City Royal. W. B. & J. M. Rodgers, Beloit, Kan.

the H B. Woodbury herd, Some famous cows in this herd 5 young bulls of serviceable age for sale. 4 miles from Tipton, Kan., 8 from Cawker City. JOHN SCHMIDT & SONS, Tipton, Kan.

100 HEAD OF HEREFORDS—The home of Caster 259475, the winner in every big show he was ever in. A few choice young heiters and cows for sale. F. L. BROWN & CO., Sylvan Grove,

#### PERCHERON HORSES.

REGISTERED PERCIERONS — The home of Vidoque (Imp.) 40403, also the brood mare Risette (Imp.) 51115. Inspection invited. Farm adjoins town.

E. N. WOODBURY, Kansas.

REGISTERED PERCHERON HORSES stud; Imported Rabelais 42529 by saque by Theidus, who sired Calipso od Casino, Visitors welcome. J. JOHNSON, Solomen Rapids, Kan.

THE HOME OF JAQUE W. 42659 by Tiatrey, dam Imported Risette. Inspection of my Percherons Invited. RALPH G. McKINNIE, Glen Elder. Kansas. Glen Elder,

COLEDALE STOCK FARM—The home of three first prize winners at the International. Nothing but the best in this terd. Come and see us. FRANK A. COLE, Barnard, Kan.

GRANITE CREEK STOCK FARM,
Percheron and Standard bred horses.
Make known your wants to
M. A. SMITH, Supt.,
Cawker City.
Kansas.

#### COACH HORSES.

LAWNDALE STOCK FARM—Oldenburg German Coach horses International prize winning stock. A tried stallon for sale. Inspection invited. JOSEPH WEAR & SONS, Barnard, Kan.

#### POLAND CHINAS.

EUREKA HERD POLANDS—Durocs, I breed both and have a nice lot of serviceable boars of both breeds for sale, and a few choice gilts. Friced right.

W. H. SALES, Simpson, Kan.

POLAND CHINA BRED SOWS. Wednesday, February 16th, we will sell bred sows at the farm 10 miles south of Beloit, Kan. LOGAN & GREGORY, Beloit, Kan.

#### DUROC JERSEYS.

GOLDEN RULE STOCK FARM—Gilt edged Duroc Jerseys, 40 spring pigs, both sexes, for sale at private treaty. Farm adjoins town. I.EON CARTER, Asherville, Kan.

## DUROC BRED SOW SALE.

50 champion bred sows at auction Tuesday, February 1, at my farm close o Beloit, Cat alog ready. Address PEARL H. PAGETT, Beloit, Kan

#### HAMPSHIRES.

HAMPSHIRE HOGS.
40 spring pigs, both sexes, for sale.
Write for prices.
A. B. DOYLE,
Rural Route 1, Beloit, Kan.

#### O. I. C. SWINE.

Tracing to the famous Kerr and Big Mary families No more males to offer. A few choice bred and open gilts for Sale. T. C. WRENCH, Beloit, Kan.

#### AUCTIONEERS.

COL. H. H. VanAMBURG General and Live Stock Auctioneer. PHONE 434, BELOIT, KAN.

#### COL. F. L. SMITH

General and Live Stock Auctioneer.
PHONE 943, BELOIT, KAN.

## GET BUSY

You are missing the opportunity of a life time if you do not send and get OUR NEW 1919 CATALOG before buying a stallion. It will show you a large number of actual photographs of stallions now in our stables. These horses were all selected and imported early in the fall of the year 1909 and are all in prime condition to go out on the stand and do a big season's business. They are nearly all solid colors, range in age from 8 to 6 years, in weight from 1700 to 2000 pounds. They are the big-boned, blocky type, with lots of style and action. Our 60 per cent breeding guarantee is as good as a Government Bond. GET OUR CATALOG. It is free for the asking.

WATSON, WOODS BROS. & KELLY CO.,

LINCOLN, NEB.



# ROBISON'S PERCHERONS



FOR SALE NOW-

Twenty-five extra good Imported and American bred Percheron stallions.

PRICES RIGHT.

J. C. ROBISON,

Towanda, Kansas



#### HORSE MEN

We want to call your attention to our fine lot of IMPORTED AND AMERICAN BRED STALLIONS AND MARES. SHIRES PERCHERONS BELGIANS

We always have our barn full numbering up to sixty and you would do well to see us be' re buyling elsewhere. Are going to make extra low prices for the next thirty days in order to make room for our spring shipment. We solicit correspondence, and 12vite you to come and see the grandest lot of horses ever brought together. Will give terms to suit the buyer. Don't buy without looking at these or you will miss a bargain.

L. R. WILEY & SON, Elmdale, Kansas.

# **Percheron Mares and Stallions Registered**

Several matched teams of Percheron mares, all blacks, safe in foal by Imported Stallions. Have both imported and home bred mares. Come and see our horses and satisfy yourself.



Our Motto: Top notch animals, square deal, quick sales, small Make your wants profits. known.

DANIEL WREN, Manager, KANSAS





I am offering an extra good lot of 2- and 3-year old Stallions for sale. Big drafty fellows with lots of bone. Also have a few mares for sale from yearlings to 8 years old.

Butler, Mo. J. W. BARNHART, R. F. D. 2.

#### BLUE RIBBON STOCK FARM

For sale, 20 head of registered Percheron mares. Safe in foal. Color, ages, weights and prices right. Call or write

> LEE BROS., Harveyville, Kan. Farm joins town.



# HOLLAND STOCK FARM

IMPORTERS AND BREEDERS OF Percheron and German Coach Stalllons and Mares

Do you want to buy a stallion for cash? Go to the Holland Stock Farm.

THAS, HOLLAND, Prop. ---

Springfield. Mo.

SHETLAND PONIES FOR SALE—20 imported stailions and a few bred mares. We have recently returned from Scotland with the finest importation of ponies ever brought to Nebraska Write for private sale catalog. CLARK BROS., Auburn, Neb.

PERCHERON HORSES, HOLSTEIN-FRIE-SIAN CATTLE

Up-to-data Poland China hoga. Write your

H. N. HOLDEMAN. Kansas.

Meade.

FOR SALE—I have a good road or general purpose stallion (Standard bred, but not registered) sired by Douglas Almont (3388), by Allie Gaines by Almost (\$25), dam by Champletonian" by Hambletonian 10. Bred by the present owner, has never been abused and is a sure foal getter and gets good ones. Fine disposition. \$300 will buy him. Address "H," Box 314, Baldwin, Kan.



Breeders of registered jacks and jennets For sale, 14 jacks and 20 jennets, 14 to 16 hands. All black. We raised all of these jacks and broke them. We are not speculators and you get them first hands if you buy from us, 89 miles N. W. of K. C. 65 miles W. Capt Sunday, 2 banday Write for catalog—free for asking 55 Kansas Farmer is mentioned. M. H. & J. O Roller, Circleville, Kan.

#### JACKS.

JACKS.

I have on hand a large collection of the best stallions the world produces. I have the best line of big boned, dapple gray and black, ton stallions that can be shown in the United States this season. These stallions measure from twelve to fourteen inches below the gamble and from eleven to thirtein inches below the knee and carry corresponding quality. They run in weights from 1.800 to 2.630 pounds each. I am officing greater attractions in stallions than any other importer. Prices the lowest.

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

W. L. DECLOW.

W. L. DECLOW,
Cedar aRpids Importing Farm,
Cedar Rapids,
Register your jacks in the American
Jack Register. Write for blanks.

#### JACKS AND JENNETS

Stocks for sale at all times. Write us what you want. YATES BROS., Faucett, Mo.

#### STALLIONS AND JACKS

Several Kentucky jacks from 15 to 16 hands high. One mile from town. BRUCE SAUNDERS.

Holton.

#### KENTUCKY MAMMOTH JACKS.

Jacks, jennets and saddle horses. 260 head to select from. Tamworth swine, all ages. Catalogs now ready.

J. F. COOK & CO., Westucky.

# **Percherons**

aff splendid stallions and mares arrived Feb. 9. These, added to our present stock, afford intending purchasers the finest selection in America. If you want the best horses, horses with bone, quality, size, action and best breeding—if you want fair and liberal treatment, if you want lowest prices consistent good merchandise. Visit Oak-headquarters for Percherons in ica, and renowned for nearly years as the greatest importing ting establishment in the world. fifty years as the greatest importing and breeding establishment in the world. Catalog shows the place and the horses.

W. S., J. B., & B. DUNHAM. WAYNE, ILL.



75 HEAD JAGKS AND JENNETS All ages up to seven years old. Guaranteed as represented and prices reasonable. Special prices for fall trade. Come and see me. PHIL WALKER. KANSAS.

MOLINE,

35 Jacks & Jennets 35

Few good Percherons and saddle stallions. Jacks 14 4 to 16 hands and the very largest that can be found. 40 miles K. C on U. P. and Banta Fe.

Long distance physic.

A. E. SMITH, LAWRENCE, East

#### FOR SALE.

The thoroughbred imported French Coach stallion Viveur is for sale. Any one desiring information address the undersigned. C. R. MILLER,

R. F. D. S. Chairman Sales Com. Atchison, Kan.

### JACKS AND STALLIONS

AT QUIET GLENN.

One or a car load of big jacks,, the kind you will want and that will do your country good. Come and see a lot of jacks that are all good. Choice of three young Perheron stallions. Come now or write for catalog.

G. M. SCOTT.

#### STALLIONS AND JACKS.

2 black Percheron stallions.
2 Chestnut Stallions (Standard bred).
1 Spanish Jack.
1 Mammoth Jack.
No better individuals or surer sires in Kensas. You run no chances. Their coltrare here to show. All qualified under the Stallion law.
If you want the very best at reasonable prices, come quick.

SUTTON FARMS,

Kansas.

# Percheron Stallions

Several nicely matched teams of regis-tered Percheron mares, safe in foal, and a few young stallions for sale, ages from three to five years old. Come and see me.

Ellinwood, Kan. F. H. Schrepel.

#### PERCHERONS, SHIRES SADDLERS and JACKS



28 registered jacks and jennets. 12 registered Percheron stallions and mares, 1 Imp. Shire stallion. 1 comb. harness and saddle stallion. Good stuff and at prices that will move them. Barns 3 blocks north depot. Fred Poos.

H. & H. WOLF and DAVID COOPER Imported and Home Bred Belgian Stallions.

Beigian Stallions.
Branch barn of H.
H. Welf, Wabash.
Ind.
The same terms and insurance will be given at Freeport, Kan., as at Wabash, Ind. Several extra good two, three and four year old stallions, one that weighs a ton and ten pounds at 27 months old, All are good individuals, gugranteed as represented. Priced reasonable. Write or call and see me.

DAVID COOPER,

DAVID COOPER, Mgr., Freeport, Harper County, Kan.

Profits in Potatoes.

Potato raising, either as a side issue or as a main crop, proves profitable to the formers everywhere Few farmers, however, realize as much from their potato "patch" as the should. Good cultivation—planting good seeds, using good tools, fertilizing, spraying, etc.—will make the same space double or treble its production and greatly improve the quality. And quality potatoes get the top prices. On Long Island the average gross return from potate land is \$225 per acre, the cost of production \$56.50, and the net profit \$169 per acre. Of course, this is probably exceptional, but it shows what is done by some farmers, and farmers anywhere can make big money in raising potatoes. Moreover, the price of potatoes has steadily risen from a market value of 75 cents per bag of 180 pounds in 1896 to \$1.50 in 1910. One way to learn how to increase the yield is for the farmers m a neighborhood to organize a potato club. Invite a half dozen of your neighbors in and talk overmethods and markets, etc. Wonderful results in the way of larger crops will follow. The 1910 "Iron Age" booklet should be sent for and used as a text book at the first meeting. It contains much valuable information and a copy will be sent free to yourself, as well as one for each member of the club. The ladies, too, should be invited, for if they do not take part in the potato "discussion" they can surely spend the evening pleasantly and profitably. For the 1810 "Iron Age" booklet and other literature addresse the Bateman Manufacturing Co. Box 71-P. Grenioch, N. J., makers of the "Winda invitates a special content of the search and garden tooks, which invitates a special content of the search and garden tooks, which invitates a special content of the search and garden tooks, which invitates a special content of the search and garden tooks, which invitates a special content of the search and garden tooks, which invitates a special content of the search and garden tooks, which invitates a special content of the search and garden tooks, wh



When planning to use concrete remember that no matter how careful your construction may be, it is certain to be unsatisfactory unless the cement you use is of the right quality. To expect to make hard and durable concrete from poor cement is like trying to make a good pair

# AS PORTLAND CE Makes The Best Concrete

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

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

"Concrete Construction about the Home and on the Farm." It contains directions for making and handling concrete, and shows how to construct large r id small buildings. There are 168 pages and over 150 illustrations, diagrams and plans.

k your dealer for ATLAS.

The ATLAS Portland CEMENT Co. Productive capacity over 50,000 be

Ask your dealer for ATLAS If he cannot supply you, write to

Productive capacity over 50,000 barrels per day—the largest in the world Dept. 107 30 Broad Street New York

#### Four Miles Extra Lift.

Four Miles Extra Lift.

Word has reached the officers of the Empire Manufacturing Company, of Quincy, Ill., showing in a startling manner the tremendous waste of energy on the average farm. A northwestern farmer was harvesting 300 acres of wheat. He and his hired help were compelled to lift onto high wheeled wagons thousands of sacks of wheat. Last harvest season, however, he equipped his wagons with low steel wheels which cut off last two feet of the lift. Figuring this in connection with the tremendous number of sacks loaded onto the wagons during the previous havest, he had wasted enough energy during the 1908 harvest to have lifted one sack four miles. The contention is that working with low steel wheels, such as those made by the Empire Manufacturing Co., necessitates less strain on the back and legs and absolutely does away with this farm drudgery. A medical authority recently stated that heavy lifting over high wagon wheels kills more farmers than pneumonia, consumption, small pox and cholera combined. Cultivating the soil, cutting the products and thrashing the grain cannot be called hard work with such modern appliances as low steel wheels; this point is aptly illustrated by the new and valuable book issued by the heaving by simply addressing this concern.

Two Great Inventions.

Two Great Inventions.

Our readers are always interested in new machines that tend to lighten and cheapen the burden of farm work. We are glad to call their attention to an advertisement in this issue that describes two new inventions. We want every reader of this paper to read carefully the advertisement of the Chase Mfg. Co., on another page. Their Grinnell detachable spreader described there, contains two new inventions which are bound to interest all farmers. These new inventions are detachable gearing cage and a new style steel gearing, both of which are entirely new. The detachable gearing cage feature saves the spreader, bos, trucks and all on their machine for other uses on the farm. In other words the Grinnell is a combined manure spreader and farm wagon. It will pay you to investigate this remarkable machine very fully at once. Get their catalog without fail. The new steel gearing on this machine is also different from the ordinary gearing on other spreaders. It does away with the old style drive chain and sprockets which attach to the rear wheel on other makes of wagon box spreaders. It is considered a great feature and a big improvement in the line of manure spreaders construction. Address your letter ot their president, Charles F. feature and a big improvement in the line of manure spreaders construction. Address your letter ot their president, Charles F. Chase, Chase Mfg. Co., 99 Broad St., Grinnell, Ia. Get their new beautiful free illustrated book which you can do by simply mentioning this paper when you write them. See their advertisement in this issue.

Treating the Barbed Wire Cut.

If your promising yearling colt should run into the barbed wire fence today and cut an ugly gash in his shoulder, have you a good liniment ready to treat him? If you haven', you ought to have. If you don't know a good horse liniment you ought to post up and when you have made up your mind what liniment to buy, buy it and have it ready on your shelf. You will have use for it. If you do not know what liniment to select, it is well to be guided by the experience of others and pin your faith to something like the old reliable Kendalls Spavin Cure. Do not be misled by the name and get the idea that Kendalls Spavin Cure is a cure for spavin cally. It is one of the best remedies for spavin ever compounded, but it is at the same time a thoroughly reliable remedy for most all the ordinary aliments of the berre, including cuts, bruises swellings, species, ringbore, curb, spliat and lame.

nesses from whatever cause produced. Time has added greatly to its popularity. Almost all horse owners know it. Druggists everywhere sell it, in fact, they are compelled to sell it, because horsemen call for it and will accept no other remedy. A little book, "A Treatise on the Horse and His Diseases" published by the makers of Kendall's Spavin Cure can be had free at stores where the remedy is sold, or upon application to the manufacturers, Dr. B. J. Kendall, Enosburg Falls, Vt., enclosing a 2 cent stamp it will be mailed to any address. Our readers would do well to have the book for reference as well as the renedy constantly on hand.

How New Varieties Originate.

How New Varieties Originate.

During the past few years, the horticultural papers have been full of items regarding Luther Burbank, Dr. Franceschi and other horticultural experimenters who claim to have originated new varieties of flowers or vegetables, and we believe that many of our readers are interested in this subject. It is generally conceded by the best posted horticulturists that there is no known way whereby any one can produce a sport or freak in plant life, but nature responds to high culture and is more successful by means of insects in arranging so-called hybrids or crosses, than any efforts of man. Usually horticulturists use a small camel's hair brush and carefully take the polien from the flower of one plant and place it in the center of the flower of another plant which they wish to cross and then covering this flower with paper or with netting to keep out the insects. Very few of these crosses, however, are of any practical value and they are usually inferior to either of the parent plants, probably not more than one out of a thousand shows a decided improvement, so as to be worthy of future culture. The insects succeed much better in distributing the pollen, however, and many growers who desire to cross certains varieties, plant alternate rows of the kinds and the second year they may find some few plants which are a real improvement and they are established by a continuation of careful seed selection through a series of years. Sometimes after a variety has been grown and kept strictly pure for a number of years it will "break" or "sport" and produce a "freak" different from anything ever seen before. Men with a trained eye will notice the slightest variation from a type and if it is an improvement will try to perpetuate the same. For several years the writer has been growing the Golden Nugget, a popular yellow English variety of tomato in his garden and they have been kept quite pure. Two years ago, however, one plant produced bright red fruit which were a trifle larger than the Golden Nugge

How about trading a few dogs for some sheep. Not that anybody who owns sheep would be willing to make such an exchange but that you may dispose of wholly worthless and disease spreading dogs and replace them with something useful and that will add to your income.

#### Why Feed Cattle?

Feeding live stock must be considered from the standpoint of fertility of the soil and not alone from that of direct profit in the cattle or other animals. Beef cattle even more than dairy cattle can make an excellent use of some of the by-products of the farm that cannot be used in any other

It has been demonstrated by Prof. Mumford at the University of Illinois through a series of years that the money received for corn which is fed to cattle was more than the corn them at a little above the market price. I believe in setting the price high, and I find that when we sell a good article the farmers are willing to pay a good price for it and that very few kicks are registered. The difficulty in the past has been that we have not been able to sell as good an article as we should have sold but we now have the breeding work well organized and the seed which we distribute from this experiment station in the future will be worth the money that we ask for it even if the prices are made higher than the present ones.

# Veterinary Science at Agricultural College.

(Continued from Page 1.) vide for one term in general diseases of farm animals with a special course of one term in obstetrics. There will also be training in physiology and bacteriology in the same classes and laboratories that are provided for the regular veterinary students. All of the regular students in the veterinary department are subject to call night and day by the farmers of the state,

and when they visit a diseased animal they are required to make a diagnosis prescription. These are inspected by the professor in charge and if approved, the animal is treated accordingly.

Kansas not only has the largest Agricultural College in the world but she has the largest veterinary scheel in this country and, with the revision of the course of study now under way. there seems to be no queston but that it will be the best.



Kansas City Stock Yards, Feb. 21, 1919.—
Conditions continue favorable to sellers in the cattle trade today, tollowing an advance of 10@25c last week, applying to all gradea Prices have made about this much gain each of the last three weeks and now stand 50@75c above their position when the meat agitation was at its height. The supply here today is 10,000 head, and prices are strong on steers and country grades, cow stuff strong to 10c higher. There is a good demand from eastern killers for live azimals, and local packers are finding a ready eullet for beef slaughtered here, which makes an ideal market from the sellers standpoint. No extra prime steers are here today, the top cattle here selling at 36.85@7.00, and bulk of steers \$5.85@6.75. Top cows bring up to \$5.75, although exceptional sales have been made lately up to \$6.40, on both cows and heifers, bulk of she stuff at \$3.75@5.60. bulls, \$3.80@5.25: veals, \$7.50@5.00; heavy calves around \$5.50; stockers, \$4.00@5.65; feeders, \$5.00. Supply of quarantine cattle has been evry light lately, market on quarantines 10c higher today, steers at \$5.25@6.00, cows and heifers, \$4.25@5.25; and quarantine calves today at \$7.00@9.00. Recipts from the range country are also light, some fed Colorados lately at \$5.55@5.00.

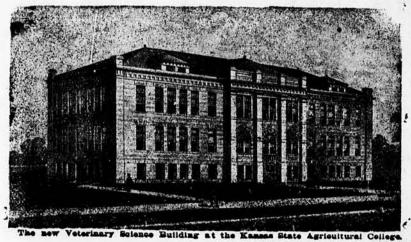
The hog market made good advances last week in the face of a hun neavier than for several weeks, and the close Saturday was only a shade below the best figures reached during the week. Supply today is \$,000 head, market 10c higher, with prices all along the line at the highest point reached on this bulge, and the highest ever knows here; top \$3.25; bulk, \$3.95@9.20; light hogs, \$8.80@9.05. Mess pork sold up to \$44.00 in 18644, and the price is now \$24, while highest price paid for lard in the last fifty years was \$30 per cwt., in 1865, the price now is \$12.50. All provisions futures are now at the highest prices of the season. Sheep and lambs made good gains last week, and are holding steady to strong today, at the advance of \$2.600 escured issoweek. Ru

Avoid Tarred Paper in Orchards.

Mr. C. R. Henry of St. Francis, Kan., calls attention to the fact that the use of tarred building paper as a protection of orchard trees against damage by rabbits is not successful in his section of the state. He writes: "I lost nearly all of my 3-year-old apple trees from the effects of tarred paper and a neighbor has had the same experience. I find that a large nursery warns their customers against wrapping their trees with tarred pa-

#### Good Reliable Men

Wanted to sell Road Drags. Four Drags are constructed on sound and Drags are constructed on sound and reasonable principles, and have points of advantage that would seem unreasonable only to those, who have given the matter a great deal of thought. There is side draft, flexibility, alinement, soil condition, draft, convenience in handling, durability and numerous other things to be taken into consideration. We want a good, practical man tion. We want a good, practical man in each locality to learn our Drag and its many good points. Men who want good roads and men who want to make money. We have the article: the public wants good roads; do you want the money? If you do get with us by return mail. We manufacture Road Drags, Street Sweepers, and Automebiles. Yours for better roads. E. B. Winters, Coffeyville, Kansas.



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15,000 Acres Actually Irrigated in the

BEAUTIFUL PECOS RIVER VALLEY OF TEXAS.

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Railroad Station in center of tract.

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Free Water with every acre. Selling fast. Act quick if you want an actually ilrigated farm cheag, or an investment that will pay you 50 per cent annually. Excursions and cheap rates first and third Tuesdays of each month.

Most desirable irrigated land and townsite proposition on the market today. Send Most desirable irrigated land and townsite proposition on the market today. Send interesting booklet. Tells you about it. Good live agents wanted in every locality.

Topeka,

Ransas.

Topeka,

8,86\$ acre ranch, improved, \$5.00 acre.
Robertson Co., 7 miles county seat. Adjoining land couldn't be had for twice our price. Would sell part or all. All fine grass and much first class farm land. Detailed description and plat free.

C. A. BABCOCK,

Harper,

NEAR OKLAHOMA.

Seven sections. Wheeler county, Texas-practically all tillable, raises big crops, corn, wheat, Kafir, mile maize, broom corn, meions and all staples. Good crops here last year. Goes in section lots; extremely reasonable prices.

CAINE & BINKLEY Cotton Dealers and Owners,

Oklahoma City,

Oklahoma

Kansas.

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

J. N. JOHNSON LAND COMPANY, Dalhart,

### Texas Tracts--Snaps.

10,000 acres at Shepherd. San Jacinto Co., 50 miles N. E. Houston, \$6.50 per acre. 8,000 acres Liberty Co., between Houston and Beaumont, on main line Frisco R. R., at town site of Hardin, \$15.00 per acre. 640 acres, all prairie, 15 miles north Houston, 6 of Aldine, \$25.00 per acre. ROSE & SON.

5 Sherman East, Hutchinsen, Kan.

5 Sherman East,

COLORADO LAND

COLORADO LAND

# CALL OF THE WEST

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

We have plenty of choice, smooth, fertile lands, such as are now producing from 25 to 45 bushels of wheat per acre and yield abundantly of corn, alfalfa, oats, potatoes and other crops, we can sell you at from \$10 to \$25 per acre on good terms.

Write us at once for information as to the splendid opportunities for investment in lands, both irrigated and irrigable, or choice farming uplands.

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

THE BEST OF NORTHWESTERN COLORADO.

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

THE WESTERN LAND CO.

STERLING,

# Kiowa County, Colo., Land.

12,000 acres of choice wheat land offered in quarters and half sections. On line of Mo. Pac. R. R., close to three good towns. Prices range from \$5.00 per acre upward.

Write for terms and descriptions.

ALBERT E. KING,

McPherson, Kansas.

# GARDEN HOMES IN SUNNY COLORADO

With water guaranteed for all time. We own 16,000 acres within 5 miles of Pueblo, now ready for the plow, in tracts of 10 to 160 acres. Alfalfa, wheat, oats, barley, sugar beets, potatoes, cantaloupes, fruits and berries are grown here abundantly. Big demand for poultry & honey, from this district. On 5 transcontinental railroads. Good markets and shipping facilities. Finest climate in the world. Good schools and churches. Our selling plan and terms are the best. Write for illus. booklet, map, terms of sale and particulars relative to transportation.

The Teller Reservoir & Irr. Co., The Teller Reservoir & Irr. Co., 603 F No. Santa Fe Ave., Pueblo, Colo

NEBRASKA LAND

1 SELL DIRT.

I SELL DIRT.

I have for sale one of the best improved ranches in Southwest Nebraska, containing three sets of improvements, the ranch contains 4.760 acres of fine land, 2.500 of which is fine alfalfa land. I have also for sale tains 4,760 acres of the land. I have also for such is fine alfalfa land. I have also for such is fine affairs from 160 acres up; write me. good farms from 160 acres up; write me. Wauneta, Neb. Steinmann,

ALFALFA FARMS, DUNDY COUNTY.

160 acres creek bottom, running water,

ALFALFA FARMS, DUNDY COUNTY.

160 acres creek bottom, running water, rich soil; 160 acres will grow alfalfa, 6 mi. to town, house, cave, ice house, barn, sheds.

\$25.00 per acre.

160 acre valley farm, black soil, 2 mi. Benkelman, new house, barn, sheds, well, under fence. \$0 acres will grow alfalfa, irrigation ditch on land; \$30.00 per acre.

\$20 acres, improved, divide farm, \$20.00 per acre.

R. D. DRULINER, Nebraska. Benkelman,

Platte River Valley Bargains.

710 acres, fine valley land, all under irrigation ditch, good 8 room house and other improvements, 4 mi. from R. R. station, 16 mi. Co. seat; all fenced; choice land and offered far below actual value at \$30 per acre, for short time only.

320 acre farm, 1 quarter deeded, 1 year school lease, subject to purchase, all choice valley land, 6 mi. from Bridgeport, Some alfalfa and all good alfalfa land, under irrigation Fair improvements and fruit. Price \$20 per acre, cash. Other attractive propositions in the new Morrill county hads. Write for particulars or see SCOTT & DAVIS,

Bedgeport, Morrill Co., Neb.

IRRIGATED HOMESTEADS.

IRRIGATED HOMESTEADS.

In the famous North Platte Valley, where Uncle Sam furnishes the water on ten years time without interest. Crops yield \$25 to \$160 per acres Homesteads at from \$700 to \$3,500, according to improvements. Deeded land \$75 to \$100 per acre. Free rural mail delivery, telephones and all modern farm conveniences. These lands in splendid settlement of fine homes near town. For particulars write or see

CARPENTER, PLUMMER & MURPHY,

45 BUSHEL WHEAT LAND, \$25 PER ACRE.

We own and centrol 20,000 acres of Cheyenne county, Nebraskas, choicest farm land, now on the market The heaviest crop yielding county in Nebraska for ten years; alfaifa also a leading crop. Ask for folders and full particulars. Agents wanted everywhere. Write for our proposition at once. Railroad fares refunded if things not as represented.

FUNDINGSLAND & SEVERSON

FUNDINGSLAND & SEVERSON,

BOX BUTTE COUNTY BARGAINS.

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

DINEEN. BUBENDALL & YOUNG,

DINEEN, BUBENDALL & YOUNG.

TWO SPLENDID FARM BARGAINS.

400 acre farm in Red Willow county,
Neb., 2½ miles from McCook, good 8 room
house, good barn and other good improvements; 160 acres choice valley alfalfa land,
55 acres now growing; 100 acres bottom
and 40 acres upland cuitivated, blance
pasture: well watered, some timber and
abundance of choice fruit trees, bearing.
Actual value of land over \$20,000 but belongs to non-resident, who will take \$16,000
if sold soon—only \$40 per acre. Act quick;
don't miss this.
560 acres. 12 miles from McCook, 7 miles
from Troyer, Kan; 400 acres choice smooth
farm land, balance good pasture, half cultivated, slight improvements. A splendid
bargain at \$16 per acre.
For other snaps in farm and ranch lands
write or see

ACKERMAN & STEPHENS, TWO SPLENDID FARM BARGAINS.

ACKERMAN & STEPHENS,

Nebraska McCook.

Breeding as a Factor in Producing
High Grade Corn.
Delivered before the State Corn
Breeders' Association by J. M. Gilman,
Leavenworth, Kan.

It is a truth so self evident as to be axiomatic that agriculture has been, is and always must be the principal source of the food supply of the world.

In view of this it seems strange that scientific plant breeding for increased production is a comparatively modern practice, so recent indeed that the great mass of the rank and file have little or no knowledge of the theory and practically no knowledge experimentally along these lines. Indeed there are communities even yet where a mention of pedigreed corn or other grain would be considered a joke calling for laughter rather than serious attention.

This late recognition of the laws of plant breeding, and the knowledge of the wonderful results to be obtained therefrom, is perhaps due to the fact that the results obtained in the beginning of a series of plant breeding operations or experiments are surprisingly erratic and seemingly contrary to the laws of heredity as understood by the average farmer. Especially is this true in corn breed-A farmer selects what seems to him an ideal ear of corn, or unknown lineage, from a load or from the crib, and if he is especially progressive he plants it in some favored spot where he can identify the product, expecting to secure the same perfection of size, shape and type tnat appealed to him in the parent ear; and is greatly sur-prised, much disheartened and not a little disgusted when he finds every size, shape and variation of type in the progeny of this single ear, most of them ranginf from commonplace to very poor.

He has made for himself the dis-

covery, so discouraging to the beginner but so helpful to the experienced breeder, that reversion is one of the strongest if not the strongest law of heredity and the reason the progeny of the good ear is mostly poor or bad is because the ancestry of that ear consists of an unnumbered multitude of good, bad or indifferent ears, and the product reverts in type to the ancestry.

Selecting as seed the best ears of the progeny of the above mentioned ideal ear, will secure a grater percentage of desirable ears in the second year's crop, and this percentage will continue to increase with each succeeding year of careful selection for a time at least.

Theoretically this would result in time in the production of absolute uniformity of size, shape and type in the progeny of ears of corn having an ideal ancestry extending sufficiently far back, but I have not been able to determine either theoretically or experimentally when that happy time is due to arrive. As a matter of fact, owing to the free pollenization of the corn plant, the wind, birds and insects, even in the most carefully isolated locations will always carry enough pollen from outside sources to form a continual breaking away from

the desired and desirable uniformity. In addition to this it has been found that inbreeding, especially close in-breeding, tends to cause deterioration both in type and yield. Until re-cently this was thought to be an unvarying law, inbreeding causing de-generacy, but some recent experi-ments of the University of Illinois have led Dr. Smith to believe that they have found one exception to the general rule, and our own experi-ments along this line have shown that at least one ear planted in an isolated plot and inbred produced an unusually high yield of exceptionally fine type.

So far this paper has dealt principally with type, but the same laws apply to yield with this difference: that while the ears of desirable type can be chosen by sight, the high yielding ears can only be determined by actually planting and measuring the product, and because of the impracticability of planting separately any very large number of ears, it may be true that some that might prove to be of the best if not the very best, are consigned to the feed lot because the correlation between type and yield is as yet but imperfectly understood. I have never seen any one who could tell which was the highest yielding ear until the product had been weighed.

Coming to the practical question of whether or not it is possible or de-

sirable to secure a strain of corn that combines fine type with high yield, I would answer emphatically "yes" to both questions. By selecting only ears of fine type for the test plot and continuing this for several years we can as readily secure a show strain with high yielding power, as we can secure a high yielding corn of poor type, or a show corn without relation

This is desirable because the points that go to constitute a show ear are the very points that produce a large proportion of shelled corn and the ultimate aim of corn breeding, the only aim that can make it a thing of permanent value to the farmer rather than the passing fad of the fancier, is the production of more bushels of shelled corn per acre.

A new department of experimental breeding has just been established in the College of Agriculture of the University of Wisconsin by the regents, who have appointed Dr. Leon J. Cole as head of the new work. This department will conduct investigations on the subject of experimental breeding with special reference to the laws of heredity and improvement of animal life.

#### SHORTHORN CATTLE

SHORTHORN BULLS.

Choice young buils for sale, sired by the pure Scotch buil Scottish Archer and out of Scotch topped cows, Reds and excellent individuals. Will be priced reasonable. Also few bred Poland gilts.

S. B. Amcoats,

Clay Center, Kan.

ALFALFA LEAF SHORTHORNS. Special offering of four buils. One by Archer 205740, out of a Victoria cow. Three by Nonparell Star, one a Victoria, one imp. Edelweiss and one Christmas Gift. Also a few choice heifers of equal quality and breading. few choice he breeding. John Regier, Whitewater, Kan.

FOR SALE.

12 bulls, 12 to 18 months; 20 cows and helfers for sale. Shaw Bros., Glade, Kan. Glade, Kan.

EVERGREEN HOME FARM.

Milking Shorthorn Cattle, Bred Hornless, Berkshire Hogs, Oxford Down Sheep. Bourbon Red Turkeys.
LATHROP, MISSOURI.

#### JEWELL SHORTHORNS.

A young herd of up-to-date breeding. Also Percheron and Standard bred horses. In stud, the Percheron stallion Marquis De Wierre (Imp.). Also the Standard bred stallion Red Seth \$1185. Farm adjoins town. Come and see us. W. T. LOWE.

SCOTCH TOPPED BULLS.

We have for sale some choice last spring bull calves sired by our herd bull Pleasant Hill Master, one of the best sons of Master of the Grove. Will make reasonable prices # 1 1 M O. A. TILLER. Pawnee, Neb.

#### A CARLOAD SHORTHORN COWS

All are bred or have calf at side. 4 good young bulls that I am sure will suit. Everything nicely bred and in good condition. Moderate prices. Come and see us.

D. H. FORBES & SONS, Topeka, Kan. R. F. D. No. 8. Bell 'Phone 31,

#### Humboldt National Stock Farm.

Shorthorn cattle, large type Poland China hogs, 10 spring boars priced right. Write me your wants. I meet parties at trains. We can do business. Come and see H. F. Pelphrey & Son, Humboldt, Kansas.

Prospect Farm Shorthorns The oldest Shorthorn breeder in Kansas.
The largest herd of Cruickshanks in Kansas.
Herd headed by Violet Prince 145647
and Orange Commander 220590. Young stock of both sexes and some cows for sale.
Quality and prices right.
H. W. McAFEE,
Bell Phone 59—2. Topeka, Kan.

If you are looking for a young

# Shorthorn Bull

to head your herd right in every way, write us for full particulars at once.
C. G. COCHRAN & SONS,
Plainville,
Kansas.

# Center Grove Stock Farm

Scotch Shorthorn cattle and 20 bred sows and a few good spring boars of large type Poland China hogs. Write me what you want. No trouble to answer letters. Bell

J. W. Pelphrey & Son, R. 6, Chanute, Kan.

When writing advertisers please mention this paper.

#### POLLED DURHAM CATTLE

POLLED DURHAMS.
Young bulls, cows and helfers bred to Roan Hero, the double Standard champion.
Prices reasonable. Write for terms.
C. J. WOODS,
Chiles, Kan.

# BELVEDERE X2712--195058

Son of the \$1,500 Grand Victor X1685 150364 heads my herd of Double Standard Polled Durhams. A few extra good blocky, thick-fleshed young bulls for sale, Inspection in-vited. Farm adjoins town. D. C. VAN NICE, Richland, Kau.

#### HEREFORD CATTLE

# BEAU BRUMMEL

10th 167719

Modern Herefords. Herd bulls,
Beau Brummel 10th 167719, Beau
Beauty 192235—and Protocol 2d Beauty 192235—and Protocol 2d 91715. Robert H. Hazlett Hazford Place, Eldorado, Kansas.

#### ANGUS CATTLE

#### 25-BULLS ANGUS-25

Ready for Service.

30—BRED COWS AND HEIFERS—30

Sired by or bred to Champion Ito, sire of
1st Prize Calf Herd at American Royal.
10—SHROPSHIRE EWES IN LAMB—10
To our Imported Show Ram.

SUTTON FARMS, LAWRENCE, KAN.

400 Angus in Herd.

VIEW POINT ANGUS HERD.

15 choice cows in age from 3 to 7 years.
Representatives of the Heroine, Mina, Duchess and Dimple families All of them raised calves the past season and are bred for March calves to the great Louis of Meadow Brook, sire of champions, Nearly all of these cows were raised on our farms and are only being sold to reduce the size of herd. Low prices. Mention this paper when writing. PAUL M. CULVER,

#### RED POLLED CATTLE

#### **AULD RED POLLS.**

Herd established 7 years. Choice breeding and individuality. Three young bulls for sale.

AULD BROS.,

Frankfort.

Kansas.

Edgerton, Mo.

# FOSTER'S RED POLLS.

7 choice young bulls and a few good females for sale. My prices are right. Come and see my herd. C. E. FOSTER, Eldorado, Kansas.

#### HOLSTEIN CATTLE

#### HOLSTEIN BULLS

Sired by "King of the Pontiacs." "King Segis Pontiac," DeKol 2nd's, Butter Boy 3rd and other noted sires. A car load of these fellows on hand, and they will be priced to sell, Rock Brook Farm, Henry C. Glissman, Prop., Omaha, Sta. B, Neb.

EAST SIDE DAIRY HOLSTEINS
for the year 1909 have enjoyed an exceedingly prosperous business by having sold over 100 head to various Dairy Farmers and breeders over this State and others. If good breeders over this State and others. If good breeding and the large Milk and Butter producers are appreciated by those desiring better Dairy cows I should have my hands full filling orders for 1910, Write me your requirements
F. J. SEARLE.
Oskaloosa, Kan.

#### JERSEY CATTLE

#### LINSCOTT JERSEY CATTLE

Established 1878, Registered in A. J. C. C. Any animal for sale.
R. J. Linscott, Holton, Kan.

Oldest herd in the west. 30 boars of serviceable age. Also bred sows and gilts.

W. F. DAVIS,

South St. Joseph,

Missouri.

### BERKSHIRES

#### BRAEBURN BERKSHIRES.

Pigs, high class in quality and breeding. Topeka, Kan.

#### RIDGEVIEW BERKSHIRES.

herd boars for sale. 1 two-year-old Forest King, other males of different s. Sows and gilts open.

Manwaring Bros., Lawrence, Kan.

#### MAPLE HEIGHTS BERKSHIRES.

A few extra good, early fall gilts to offer, also several fall boar pigs. Long, smooth bodies and fancy heads. Write your wants. Marysville, Kan. J. M. Nielson,

#### POLAND CHINAS

ing that there exists a shortage in live-stock in the United States proper it may be of interest to know the opinion of an expert on the possibilities of Alaska. Mr. Levi Chubbock of the Bureau of Plant Industry, Department of Agriculture, writes as

Live Stock Possibilities in Alaska.

In these days when many are claim-

"That live stock can be maintained on the native and cultivated grasses and grain forage crops to an extent that will result in Alaska becoming some day an exporter of meat is by no means a wild dream.

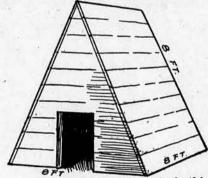
"It is not to be assumed for a moment that the conditions are such as to justify a rush of farmers to Alaska. In the first place, there have been no public land surveys, and preliminary to the general land office undertaking this work, the secretary of the interior desired information as to a most feasible areas of land for homesteading and farming. So the department of agriculture undertook to make an agricultural reconnissance last season, and I was sent to Alaska for that purpose. "Effort was made to examine three

areas in which there is a considerable present population to make a consuming market for farm products, with large mining interests awaiting development and into which railroads were building. These are the Cook Inlet region, including the Susitna river drainage, and in which is the Metanuska coal field, the Copper river drainage and the Yukon-Tanana valley.

"The Department of the Interior will probably undertake the surveying of those areas that examination shows to be the most available for homesteading, and then, with the building of railroads and wagon roads to make the country accessible, there will be agricultural opportunties in Alaska well worth considering."

A Cheap Farrowing House.
In these days, when "pigs is pigs,"
it will pay perhaps more than ever
to raise hogs instead of letting them
raise themselves. Conditions are such that it is necessary to secure good animals and feed them economically in order to make any money nowadays. One of the best ways of caring for the hog crop on the farm is to begin by taking care of the pigs, and this is best done by having a sep-arate farrowing house for each brood sow.

simple and easily constructed A portable house for this purpose may be built as follows: Make a framework of 2 by 4 scantling about seven by eight feet. Place this on blocks so as to raise it about eight inches from the ground. Cut a ridge pole of 2 by 4 scanning eight feet long. Use matched lumber of good sound pine



or poplar, about % of an inch thick and 3 or 4 inches wide. Nail this the frame work, so that the ends of the boards, if they are set upright will meet at the ridge pole, with about two inches lapping over at each end of the house. If the boards are placed as is considere where matched lumber is used, they may be cut a little long so that each end will extend beyond the end of the house. This serves to prevent rain from beating in. The drawing herewith given shows the boards placed on horizontally. The foundation frame work answers a double purpose when placed as suggested. It serves as a frame for the structure and at the same time affords a retreat for the small pigs so that they will not be overlaid by their dam. Cut not be overlaid by their dam. a door about two feet square or larger if necessary in one end of the house and a window about 12 inches square at the top of the opposite end. Hinge the window at the top so it can be let down in very stormy weather. Keep the house well painted and it will last a life-time. One man can handle it by tipping it over on a stone boat and hauling from place to place. When placing the house be sure to select a

# POLAND CHINAS

HOMEWOOD STOCK FARM, IMPORTERS AND BREEDERS OF PERCHERON, BELGIAN AND SHIRE STALLIONS AND MARES.

Sixty head of stallions arrived August 10th. 40 head of Percheron mares arrived on Nov. 5th. If in the market for a first class animal of either sex, with size, bone and quality, don't fail to inspect our horses before purchasing elsewhere. No matter what you want in the stallion or mare line, we can suit you, and at a price that will please you. Remember, every animal guaranteed a satisfactory breeder. Our Motto: Prices right, terms to suit, satisfaction guaranteed. No misrepresentations or disappointments on arrival. For the convenience of our western trade we have established a barn at Abilene, Kan.—J. McCardies barn.

Homewood.

METZ & SONS

#### 10 SPRING POLAND BOARS 10

Big, husky fellows, sired by Orphan Chief Jr and Hutch Jr., out of strictly big type sows; low prices. J. F. Menehan, Burchard, Neb.

#### FOR SALE

Three boars. May farrow, show prospects of a high class. See these if in need of a junior yearling next fall.

JEWELL BROS.,

Humboldt.

Kansas.

SNYDER BROS.' HIGH CLASS POLAND CHINAS.

Either sex, bred sows and bred gilts, priced right for quick sale. Write your wants. Winfield, Kan.

### Ridgeview POLAND CHINA HERD

Headed by Union Leader 202507. Sows in herd represent all leading big type strains. Visitors welcome.

W. R. WEBB, Bendena,

Kansas,

#### SHORT GRASS HERD-BIG TYPE--HOT BLOODS.

6 boars by King Darkness, Sept, farrow, 15 bred gilts, 5 are by King Darkness; prices reasonably for quick sale. Write at once. These bargains won't last,

G. W. ROBERTS.

Kansas.

#### HIGHVIEW BREEDING FARM.

The only registered herd of big boned spotted Polands on earth. Write for catalog of my big bred sow sale, Feb. 16.
H. L. Faulkner, Box K, Jamesport, Mo.

POLAND CHINAS.

20 early spring Poland China gilts, tracing to the large type Expansion—will sell them bred or open, a few choice spring boars, prices reasonable; satisfaction guaranteed. Oliver & Sons, Danville, Kan.

MELBOURNE HERD POLAND CHINAS.

I have a few choice spring boars and glits sired by Gold Metal, Hadley Boy and Klever Boy for sale at moderate prices. Let me know your wants.

Burchard, Neb. John C. Halderman,

#### POLANDS! POLANDS! POLANDS!

Capt. Hutch, Moguls Monarch and Toulen Frince in service. Big type clear through. 4 young boars for quick sale. 2 July boars that are herd boar prospects. J. H. HARTER, Westmoreland.

#### EXPANSION POLAND CHINAS.

A choice lot of Expansion bred fall pigs, both sexes, September farrow, for sale. Nice, thrifty pigs and will be sold worth the money. Mostly Expansion blood, though I have other good ones for those who want them. Get your orders in early. Steele City, Neb. W. E. Willey,

### STRYKER BROS. HERD POLAND CHINAS.

The greatest show and breeding herd in the Wect. Write your wants and they will please you. Hogs any age at reasonable prices. Buy the best and make the most. They breed the kind that win, the kind you want. Address Stryker Bros., Fredonia, Kan.

#### **DUROC JERSEYS**

#### **DUROC JERSEYS**

GILTS RESERVED FOR MY FEBRUARY 2 BRED SOW SALE.

Big, growthy spring boars for sale at bargain prices. Bred right and fed right.

E. M. MYERS

Burr Oak, Kan,

#### BOARS BOARS

BOARS BOARS

15 good ones left sired by the \$2,500 King of Col's 2nd. Prices consistent with time of year. Bred sow sale at Clay Center, Feb. 17th.

FRANK ELDER, (Successor to Grant Chapin) Green Kan.

#### R. & S. FARM.

In their Bred Sow Sale, Feb. 3, 1910, at Smith Center, Kan., will offer about 40 select Golden Ruler Gilts bred to King of Kant Be Beat 88333, and R. & S. Prince of Col.'s 88797. Also a few tried sows bred to Golden Ruler 20555. King of Kant Be Beat is 2 years old and weighs 800 ibs. Has a 10-inch bone and stands perfect on his feet. Breeders should sit up and take notice of such an offering. Smith Center, Kan. Rinehart & Slagle.

NEW LOCATION
at Enid, Okla, will hold a grand champion
bred sow sale March 24, 1910.
S. W. ALFRED & SON,
Kansas.

HOWE'S DUROCS.

Special prices on boars and glits sired by Rex K., champion at Wichita fair this year. Also a few by Perfeet Improver, grand champion at Wichita 1907 and 1908. Only a few left. Get busy and send in your order. J. U. Howe, Wichita, Kan.

CEDAR LAWN HERD. Nice lot of spring boars, sired by Long fonder, Bells Chief, Rose Bell and Top odel, a choice lot of fall glits open or red, priced right to sell quick. Write me F. M. Buchhelm, R. D. 3, Lecompton, Kan.

BRED SOWS AND GILTS FOR SALE
By Bonney K 47075 or others bred to him.
Also both sows and gilts bred to Kant Be
Beat 2nd. I will sell choice bred sows with
Pearl H. Pagett at Beloit, Kan., Feb. 1.
R. G. So enbarger, Woodston, Kan.

#### HANLEY STRAIN OF DUROCS Write for prices. son. Leavenworth, Kan.

Paul B. Johnson,

dry place, and, after setting it, dig a small trench around it and throw the loose dirt against the house to bank up against cold winds. separate floor can be build on 2 by 4 scantling for joists and the house set over the floor at any place selected. This insures a dry house. The ridge

may be covered in the ordinary way by lapping two boards or with a strip of galvanized iron. It is not only desirable to have such

a house for the sows at farrowing time, but it is an excellent thing for them to have a place of retreat from the sun as well as a clean place where they can retire from the mud of the hog. lot. It is easily kept clean and is worth all it costs in the added com-

fort insured for the sow and her lit-

### FOR SALE.

A few late spring ane summer boars of good quality, also some good bred yearling sows and spring gilts priced right.

H. A. J. COPPINS, Potwin,

"DUROCS GROWN IN THE OZARKS."
Ohlo Chief and ol. blood. Litters by Muncie Chief, Model Prince, King of Models, Inventor, The King I Am, Advance; several by Col. Carter, my leading bred boar. They are all grown right, are good and we answer all letters of inquiry.
C. I. Carter. Cabool, Mo.

SPRING BANK HERD DUROCS.

Herd headed by W. H.'s Colonel, the first prize junior yearling boar at Hutchinson fair, 1909, and Chief's Orion, the third prize aged boar at Kansas State Fair, 1909. A few choice spring boars and sows bred to either of the above named boars for sale.

W. H. Williamson. Baywood Kest. W. H. Williamson,

GREENWOOD HERD DUROC JERSEYS.
Herd boar Dandy Duke 64663, few choice
spring boars for sale and few extra good
spring and fall gilts, few tried sows bred
for spring litters. Write or come and see
me.

R. D. Martin & Sons.

### CHAPIN & NORDSTROM.

have for quick sale, 3 spring herd boars by King of Col.'s 2nd, 1 by G. C.'s Col. All show prospects.

CHAPIN & NORDSTROM, Kansas

#### CROW'S DUROC JERSEYS.

Herd headed by Climax Wonder, he by Missouri Wonder. 100 head to select from. Prices reasonable. The electric car runs within three blocks of my farm. Come and see my herd at any time. W. R. Crow, Hutchinson, Kan.

# Fitch's Kant--Chief Improver

A nice line of March and April boars to price worth the money after August 1. Write any time for prices and information. W. T. Fitch. Minneapolis, Kan.

new importation of draft stallions and mares arrived September 20, 1909, by "lams' own Special train" of "ten 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-openers." They are "diamonds," sold "at fifty cents on the dollar." They are "winners" and "sons of winners," having won "eighty prizes and medals' at Paris and Brussels and leading European horse shows. lams makes buyers.

"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—lams cash, his 27 years' successful business, he bought and sells better horses cheaper than ever. Mamma, lams is a "hot advertiser," but, "he has the goods" and sells horses at his barns only. Buyers get the "middlemen's profits" at lams'. Iams has

#### 200--PERCHERONS AND BELGIANS--200

two to six years old, weigh-ing 1,700 to 2,500 pounds; 90 per cent blacks, 50 per cent ton stallions. All registered and branded. He sells "topat \$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 "celling clothes" fit all buyers. No man with money or bankable notes gets away from Iams. He buys, owns and sells more stallions than any man in the United States; saves thousands of dollars to stalion buyers. Iams is not in the stallion trust. lames places \$1,500 insurance.



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

Write for Million Dollar Horse Catalog. Greatest on Earth. References—St. Paul State Bank and Citizens' National Bank,

PAUL, NEBRASKA

# HENDERSHOT'S PERCHERONS AT AUCTION Wednesday March 9, 1910, at 9 a. m. Sharp

SALE AT FAIR GROUNDS, LINCOLN, NEB.



70 Big Boned Percheron Stallions and Mares FIVE MAMMOTH KENTUCKY AND SPANISH BLACK JACKS

For catalog address
O. P. HENDERSHOT, LINCOLN, NEBR. Auctioneers-F. M. Woods, Z. S. Branson, Ray Page.



# PERCHERONS SHIRES - BELGIANS

We received on Dec. 30th at our So. St. Joseph barns another carload of Percherons. All of our stallions and mares are imported; no home-bred, short-bred scrubs. Our prices are the very lowest if you want a square deal, with the best and safest insurance and guarantee. All street cars going south from Union Depot pass our barns; one block from Transit House, one block from the South St. Joseph depot. PERCHERON IMPORTING CO.,

Chas. E. Kirk, Pres., So. St. Joseph, Mo.

#### MAASDAM & WHEELER

Breeders and Importers of Percheron Morses. 66 STALLIONS AND MARKS to select from. Our stock has size, bone and quality. Stalliens and mares from weanlings to 7 years old for sale. Imported and home bred. FAIRFIELD, - IOWA.

# 30--PERCHERONS--30 Stallions and Mares

AT AUCTION AT

# Beloit, Kan., Friday, March 4

This is a dispersion of the well known J. A. Gifford Percheron stud numbering 14 head. 12 are mares from one to ten years of age. One year and a half stallion colt and the great breeding and show stallion, Pioneer. Probably the greatest stallion ever sold under the hammer. Mr. Gifford is the well known authority on Percherons and while his Percheron stud is not large in point of numbers it is one of the best in the west and in Mitchell county, the well known Percheron center.

# LAKEWOOD SHOW

H. G. McMillan & Sons, Rock Rapids, Iowa, recognizing the strong demand from Kansas for high class stallions have decided to sell in this sale with Mr. Gifford 16 show stallions from their famous Lakewood Percheron farm. This is to be a red letter day for lovers of Percherons. For a catalog address, either

J. A. GIFFORD, Beloit, Kan.

H. G. McMILLAN & SONS, Rock Rapids, Ia.

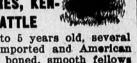
Col. Woods, Auctioneer.



# ROSS FARM

Registered

TUCKY JACKS, SHORTHORN CATTLE



30 head Imported and American bred mares 2 to 5 years old, several nicely matched teams, a number in foal, 10 head Imported and American bred stallions 2 to 4 years old, all extra good, big boned, smooth fellows fit to head the best herds of registered mares.

Several splendid big boned Kentucky jacks. 30 head pure Scotch Short-horn cows and heifers. 5 extra good red bulls coming yearlings, pure Scotch and in fine condition. GEO. B. ROSS, Alden, Kan. Scotch and in fine condition.

Farm adjoining depot, main line A. T. & S. F. R. R.

# LAKEWOOD

#### The Greatest Breeding Establishment in the World.

Calypso, the world's champion, at head of stud. Sensational show record: 20 prises awarded Lakewood Percherons at International 1909, 12 of which were firsts and championships, a record never before equaled by any one other exhibitor. In addition Lakewood Percherons won 155 prizes at the great state fairs and expositions of the west the past season, 76 of which were firsts and championships. A grand lot of bigheavy boned stallions, and a choice selection of mares at prices that defy competition. If you want the best, do not fall to visit Lakewood Farm before buying.

H. Q. McMillan & Sons, Rock Rapids, Ia.

Branch Barns: Sloux City, Is.

Great Falls, Mont.



# Imported Percheron Mares and Stallions

For sale, several nicely matched teams of two and three year old Imported Percheron mares, bred, black and grays. Several extra good two and three year old Imported stallions. We handle only the best. Come and see us.

J. A. FEE & SONS, STAFFORD, KAN.

### FOR SALE AT RIVERSIDE STOCK FARM.

5 Percheron Stallions from 2 to 5 years old, 5 Percheron mares from 15 months old to 5 years old. A pair of registered matched Belgian mares. All registered and breeding guaranteed.

A fine young registered Schorthorn Herd with Reyal Glesster at the head, a sure A fine young registered shorthorn Herd with Reyal Glesster at Scotch bred bull. I will trade this herd on a good farm.

Come and see my stock or write.

O. L. THISLER & SONS.

Hen