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EIGHTY ACRE HOG FARM

In a recent bulletin of the United In a recent bulletin of the United States Department of Agriculture on "Planning a Farm for Profit," it lays down the following one for a hog farm: Suitable pasture of bluegrass, clover or other grass for hogs will make a bushel of corn produce 30 per cent more pork than when fed without the pasture and there will be far less the pasture, and there will be far less danger of disease to the hogs when so pastured. In an 80-acre farm for hogs therefore there must be pasture crops

therefore there must be pasture crops during the growing season.

An acre of clover pasture or its equivalent should carry, when at its best, 12 to 20 hogs. In the present plan it is assumed that each brood sow on the farm will have one litter of 6 pigs a season, probably in April, and that 15 bushels of corn will carry a sow a year or produce a pig 200

and that 15 bushels of corn will carry a sow a year or produce a pig 200 pounds by December.

If there is set aside about eight acres for the house, barn, orchard, garden, and permanent pasture for the cows, calves, and colts, there will remain 72 acres on which to grow crops for the fixed stock and the hogs.

This area may be divided into four fields of 18 acres each and a rotation

fields of 18 acres each and a rotation followed of (1) corn, (2) corn, (3) costs, and (4) clover The grain will be made into pork and the farm built up in productiveness considerably more rapidly than where all the corn is cold.

is sold.

In the management of the fields the following general plan will be followed: One field of corn will be drilled in rows instead of check-rowed and with the corn will be planted about a peck of cow-peas. At the last cultivation of the corn a mixture of we and rope will be sown in the

last cultivation of the corn a mixture of rye and rape will be sown in the corn to furnish additional green feed for the hogs in the fall. With the aid of movable fences this field of corn, cow-peas, rye and rape will be harvested by the hogs themselves, the hogs being turned into the field early in September of each year.

The following year this field of corn, enriched by the planting of cowpeas, and pasturing off of the whole field with hogs, and the plowing under of the excess stubble and straw, will again be planted to corn. The third year the field will be seeded to oats and clover and the oats cut for grain. The fourth year the field will be in clover. A part of the clover will be pastured by hogs, part will be cut for read and a partier of the field placed. pastured by hogs, part will be cut for seed, and a portion of the field plowed and seeded to a mixture of sorghum and rape for midsummer pasture.

The use of 400 pounds of bone meal or its equivalent per acre on the corn and the growing of clover or an equivalent legume crop on the land once every three or four years in systematic rotation, the corn yield can be made to average on the farm in question 60 bushels and oats 40 bushels per acre.

For this type of farm, about four work mares, two cows, two colts, two calves, and in addition one boar will calves, and in addition one boar will be kept. In order to reserve as much corn as possible for the hogs, this stock will be fed 680 bushels of oats, reserving 40 bushels for seed, which falls short 2,180 pounds of the required quantity. It will take 40 bushels of corn to make up this deficiency. In addition, 15 bushels of corn for the boar should be added. NUMBER OF BROOD SOWS THAT CAN BE KEPT.

KEPT. Thirty-six acres of corn are grown

The Plan can be Easily Adapted to Fit Kansas Conditions

in all and only one acre of it is required for seed and for extra feed for the fixed stock. It will therefore be safe to calculate roughly on about 35 acres of corn that may be fed to hogs. But it has been assumed that each brood sow and each of her six pigs will consume on the average 15 bushels of corn; therefore the total quantity consumed by one brood sow and litter, seven pigs in all, will be 105 bushels. At 60 bushels of corn per acre 105 bushels represents 1.75 acres of corn required for each brood sow and litter; 35 acres of corn land, then, will support 30 brood sows and their litters.

PASTURE FOR HOGS. From the time clover pasture is

ready in the spring until about June ready in the spring until about June 1 the hogs will be pastured on five acres of an 18-acre field of clover fenced off with a temporary hog fence. Up to about June 1 the suckling pigs running with the sows do not need much pasture, and this five acres of young clover will furnish them and the sows all they will need. After removing the hogs from this five acres the clover will come on and later be cut for seed. About June 1 the hogs will all be transferred to seven acres of clover adjacent, now in seven acres of clover adjacent, now in prime condition for pasture, and kept on it until about July 15.

To furnish fresh prime pasture for the hogs from about July 15, when the clover is past its prime, up to the

time when the corn is ready to be hogged off, six acres of the 18-acre clover field will be plowed up about May 1 and planted in sorghum and rape. About July 15 the temporary fence next to this sorghum and rape pasture will be removed and the hogs given the run of the pasture they are already on and in addition the six acres of sorghum and rape. This will furnish ample green feed for the hogs until September 15, when all but the sows will be turned in on a portion of the 18-acre corn field planted with peas and later sown to rye and rape. peas and later sown to rye and rape.

The corn plant will have consider-

The corn plant will have considerable feeding value for the hogs in September, but as the stalks become more woody the cow-peas, rye and rape will furnish the necessary green feed and the corn and cow-peas will furnish the grain. As the hogs clean up one portion of the cornfield the portable fence will be moved and another portion added, and by the time other portion added, and by the time the entire field is cleaned up the hogs

will be ready for market.

In handling the clover crop for seed it is quite desirable that the clover be pastured off until about June 1 The 5-acre field of clover that the hogs were pastured on earliest in the season has been handled so as to ful-fill this condition, therefore it may be cut for seed in late August. After the clover field has been cleared of the hogs which were turned into the SIX tahordl tar corn field and after the clover for seed has been harvested, the sows and boars may be given the run of the entire 18-acre field until cold weather

or until the field is plowed in the fall for the next year's crop.

FINANCIAL RETURN TO BE EXPECTED.

The gross returns that may be expected from the 80-acre farm as here

From this total must be deducted for the first few years about \$175 each year for bone meal for the corn, leaving \$1,340 to pay interest on the investment, wages and expenses.

Sugar Beet Pulp.

A western subscriber asks for the feeding value of beet pulp, or the refuse from sugar beet factories. The composition of beet pulp compared with several other feeds is:

Percentage

Beet

Corn. Sugar

Percentage
Composition
Water
Fat
Protein
Crude Fiber Ash 1.04 Carbohydrates ..7.13

As may be readily seen, beet pulp compares quite favorably with corn silage and is a very excellent food for dairy cows when no other succu-lent food is available. It is scarcely as valuable as good corn silage because it contains slightly more water and less of the feeding nutrients. Its chief value lies in its succulent character. In vicinities of beet sugar factories large amounts of beet pulp are fed with good results where proper care and precautions are taken in its use. Cows will eat from 50 to 75 pounds daily and produce largely of milk and butter-fat. Care must be taken, however, to have it fresh and to keep it from freezing.

Christmas Three Weeks Away



This is the Season When Mother's Wood-box is Never Empty.

WEEDING OUT POOR COWS

To illustrate how the production and profit of a dairy herd may be increased by testing the individual cows, disposing of the poor producers, and putting better methods into practice, I desire to call your attention to the record of the herd of Mr. Charles Foss, which was tested by this Station. The detailed record appears below:

Gain of 83 Pounds Butter-Fat Per Cow in Two Years.

These figures furnish a very interesting study. It is seen that the 14 cows the first year averaged 5,800 pounds of milk containing 24 pounds of butter-fat; that the 12 cows the second year averaged 7,105 pounds of milk with 260 pounds of butter-fat, and that the 14 cows the third year (1906) averaged 8,057 pounds of milk and 307 pounds of butter-fat per cow. .

W. J. FRAZER,

Illinois Experiment Station.

Whole Herd Brought Up to 306 Pound's Butter-Fat. Building Up the Dairy Herd.

This article is the last of the series by Prof. Frazer, of Illinois Experiment Station. This concludes the record of the chief results of investigation extending over a period of many years. The articles have attracted wide attention throughout the world where dairying is practiced and Kansas Farmer is the only Kansas paper to print them. These studies of cows and breeding for greater milk production and profit should be preserved by every reader.

ness. It is absurd to suppose that as a rule he can buy as good cows as he can raise. The reasons are very plain. He needs to retain but few calves each year and can sell the less-promising ones. He knows the parentage

of dairymen make no effort to save their best heifer calves, and they think they have a reason. They say think they have a reason. They say that it takes too much milk. This question was carefully investigated with 48 calves by the Illinois experiment Station. Twelve calves at a time were tested at four different times. It was found they could be successfully raised on 150 pounds of whole milk and 400 pounds of skimmilk. This milk was fed at the rate of ten pounds per day until the calves better returns than the same feed fed

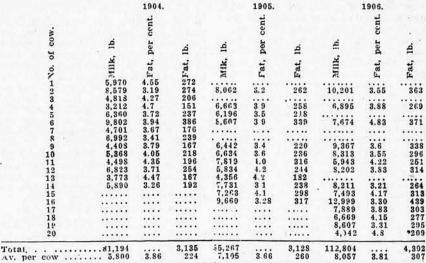
Cheaper and Better Than You Can Buy.

A prominent and successful dairy-man of the state says that he can raise a heifer to the age of two years at a cost of \$20, including the value of the calf at birth, and he has been offered \$50 for some of his heifers at that

Another dairyman who has successfully managed a large herd of cows for several years, estimates that it costs about \$18 a year to raise the average calf.

But even allowing \$40 to raise a heifer to the age when she begins to give milk, she will then be the equal of cows that could be bought for \$60. Here is a clear advantage of \$20 per cow in raising over buying, but the actual added profit in the life of the home raised and well raised cow is more apt to be two or three times this amount. Isn't this a good business proposition?

Another great advantage in raising the heifers is that the owner may feed his calves in the correct manner



* For 11 months.



Four High Grades That Produced an Average of 10,060 Pounds of Milk and 378 Pounds of Butter-Fat Per Cow Last Year.

The greatest fact apparent at first sight is an average gain of 36 pounds of butter-fat per cow the second year, and another gain of 47 pounds of butter-fat per cow the third year—a total gain of 83 pounds per cow for the two years. This means a gain of 97 pounds of butter per cow in the year's pounds of butter per cow in the year's production; which at the average price he has received amounts to about \$24.25. This gain is much more than the whole profit from the average dairy cow in Illinois. The above increase is known from an accurate record of the weight and test of the wills for a week at a time every nine. milk for a week at a time every nine weeks throughout the year.

Sacrifice of Dairy Helfers.

Many Illinois dairymen are not raising their heifer calves; instead the herd is replenished by buying cows. Four professional cow buyers sold about 7,000 cows in the vicinity of Elgin alone last year; besides this cows were shipped in by the dairymen themselves. men themselves. On many dairy farms the heifer calves, good, bad and indifferent, go for veal. Where this is done it means there is no provision for perpetuating the dairy herd or the best cows in it.

The dairyman from whom the Illinois Station bought cow No. 1 (whose story is told in this paper) with a three years' record of 405 pounds of butter-fat per year, was making no ef-fort to perpetuate her superior qualities, but was selling her calves at \$2.50 each. This is certainly a ruinous practice to the dairy business.

Tendency Is Toward Poor Cows.

The cow buyer cannot get enough really good cows to supply his pur-chasers, as but few of the best cows are for sale. The dairyman himself must raise the heifer calves of his best cows, and not depend on anybody's offerings to replenish his herd. He has the breeding stock, the feedcheap feed-and the equipment. Calfraising is a natural part of his busi-

of the calves and need save none but those from high-producing mothers. It is far easier to sell inferior stock (to the butcher) than to buy cows that are excellent producers.

A prominent dairyman of the state says of his grade herd, "The heifers we raise from our best cows are betproducers with their first calves than are the average mature cows we can buy." Several of our



A Shrewd Young Financier's Clever Deal in Picking Up These Sacraced Heifers at From \$2 to \$3 Apiece.

most progressive dairymen have said practically the same thing.

The three accompanying illustra-ons taken upon Northern Illinois dairy farms, well illustrate the right way to keep up the herd. One picture shows a boy's gathering of sacrificed calves that give promise of developing into a good herd for him.

A Mistaken Idea.

Yet in the face of all this, hundreds

were 50 days old, when it was gradually lessened one pound per day for 10 days and then no more was fed. No substitutes for milk were used. Only ordinary grains which the farmer produces, and a good quality of legume hay were fed, showing that the dairy-man can raise a calf in this way with almost no extra trouble. Several of these calves are now cows in milk and good producers, indicating that they were not injured by this method

of raising. The sale value of the milk fed these calves was as follows:

150 lb. whole milk at \$1.00 per 100. 1.20

And these prices of milk are liberal, especially as they are paid at the farm, and no money or labor is expended in hauling the milk to market. It is not so expensive to raise a calf as the dairymen have thought. The grain and hay consumed by the heifers of high quality will give much

to develop them to their greatest capacity. Cows that have been properly raised are much more efficient, and therefore worth more than if they had not been so raised. Somebody somewhere must raise

the dairy cows, and that somebody must be a dairyman if the calves are to be of high quality. Such calves cannot be raised on the range like feeder calves, horses and sheep, because they must be raised from tested

If breeding means anything anywhere, it means that the quality of large milk production is likely to be transmitted to the daughters. This has been so thoroughly established by thousands of tests that it admits of no argument. There is no other ani-mal from which such an absolute and complete record of performance can be secured as from the dairy cow. Shall the value of these records to her progeny be thrown away by not saving the good heifer calves?

Nobody else has so many natural advantages as the dairyman for raising good heifers, and nobody else has the dairyman's interest in or likely to succeed so well at it. That it is not now more generally done in Illinois is one of the vital defects in our dairying, and one largely responsible for very ordinary results too often obtained on our dairy farms.

Good Roads Make Farm Nearer Markets.

The good road moves the remotest farm close to the market. A farm twenty miles from the market on allfarm close to the market. the-year-round good roads is nearer market than a farm seven miles away on a bad road.

The results of bad roads are yearly tolls of \$12.50 against every person who eats farm produce. That yearly who eats farm produce. That yearly waste would build 200,000 miles of No. 1 macadam roads every year; or in ten years would turn every country road into such a highway as the Romans' famous Appian Way basing the cost at the very highest average of \$5,000 a mile. Though macadam roads, sometimes exceed that figure, owing to special difficulties of swamp or bridge work, on easy grade near the source of the rock bed, the aver-age has come as low as \$2,000.



Perpetuating the Good Qualities of the Tested Mothers, Making a Herd Much Better Than You Can Buy.

Shall we Improve Pasture

It is becoming more and more evident every year to thinking farmers that, with the high price of corn past, present and prospective, it will become necessary to fatten cattle more largely on grass. To do this it becomes imparatively necessary to have more grass, not merely in acreage but a great deal more grass to the acre, and not merely more grass, but better

Irish farmers describe their land by its grass-producing quality. The best lands have grass sufficiently rich and abundant to fatten a cow or steer without grain, and they do it year after year. These lands are not merely exceedingly rich and in a superb grass climate but they are old pas-tures that have not been plowed up for a lifetime; and every farmer who is experienced knows the value of an old permanent pasture. The second grade of lands is that which will grow a steer but not fatten it; in other words, fit for stock cattle. A till inferior close is fit only for sheep still inferior class is fit only for sheep or goats. British farmers feed comparatively little grain or concentrates to their live stock, as compared with our farmers. And yet they manage to furnish beef of superb quality.

During every fall we have grass-fed cattle coming in from the range. A few days ago they sold as high as seven and a half cents a pound in

By HENRY WALLACE

High Priced Corn Makes Better Grass Pasture Necessary.

Chicago. These steers would not know corn if they saw it; and yet they are very acceptable to packers, and when not fully fattened are eagerly sought for by feeders in the

It is evident, therefore, that if we are to save our corn and make more use of our grass, we must have better pastures. The idea of cultivating pastures. tures is a new one to the western farmer; but the fact that they need cultivation was evident this fall to any man who saw a ton or more of ragweed to th acre where blue-grass should have been growing luxuriantly, at least after the first fall rain.

The question therfore arises: How are we to improve them? First, follow the practice we have been recommending for many years, that of putting the manure on your pastures or meadows. If the manure contains grass seed, whether of clover, timothy, or blue-grass, so much the better. As we have often pointed out, the reason why ragweed takes the place

of blue-grass and foxtail the place of clover is simply because there is not a full and complete stand. These hardy beggars can live wherever they get a foothold; in fact, can live and thrive where the tame grasses can hardly exist on account of their inferior hardiness. Therefore, keep your land rich and well seeded to grass. We suppose it takes on an average

pretty nearly three acres of land in the western states to keep a steer seven months in the year. The very good farmers estimate two acres on their land, but we have seen farms in some years where one acre furnished abundant pasture for a thousand pounds of cow, horse, or sheep. This is the ideal at which every man should aim. Why take two acres to furnish pasture for a thousand pounds of animal during the summer season, when with thicker seeding and manuring one would be sufficient? Don't you see that if you double the yield of your pasture you double the

value of your land regardless of price?

We again call the attention of our readers to the method we have been suggesting for thickening up the stand of grass and especially of blue-grass, by disking in clover and timothy as soon as the frost goes out of the ground in the spring. Where clover is only a partial stand and is intended for either hay or pasture, besides sowing the additional grass seed we would put in a bushel of oats to the acre and cut this when in the dough stage. We know of no better way to thicken up a pasture than this. Sooner or later, if we are to make money in readers to the method we have been or later, if we are to make money in growing live stock, we must improve our pastures; and the sooner we begin, the sooner we will reach ideal condi-

The question may be raised: Can we grow grass good enough to fatten a steer without grain? Not in every year; and yet we have seen it done some years; so have you. We can, however, grow pastures on which comparatively little corn will be required; and these steers can be fed in the summer time on grass, provided you keep grass enough for two and put on

only one.

As above stated, it is not only more grass but better grass that is needed. Better grass can be secured only by having richer land; and the quickest way to secure this is by putting your manure on the grass. That's the place for it anyhow.



Some of the beautiful Jerseys on the breeding farm of H. C. Young, Lincoln, Neb.



A bunch of the splendid young Duroc Jerseys Smith Center, Kan. Rinehart & Slagle, belonging to

How to mend the bad stretches in How Good Roads Can Now Be Built

By Representative Jewett, Wichita.

improvement of country roads. Under the 1909 road law a road can be improved its entire length in any county, if necessary. I take it, however, that the first effort under the new law will be to improve the worst places. In this state the sandy stretches are the worst places for a greater part of the year. The new law makes special provision for this kind of bad road. Its provisions for the adjustment of the expense, contact the land certed action on the part of the land owners and other good features seem to be its main force. It provides for county control in making the improve-ment and gives the county commissioners power to require the county as a whole to pay a certain part of the improvement, or all of it if the commissioners so decide.

in otherwise good dirt road as pro-

vided by chapter 201, page 506, of the session laws of 1909, is the purpose of

this article. The act relates to the

This plan of road improvement, new in Kansas, might be called the terminal system. I will illustrate by using the dirt road which is a continuation of Lawrence avenue beyond the city limits on the south into Waco township and across that township to the line of Salem township. We will say that this road has three miles of very sandy spots in it. They are just south of the city boundary. Aside from these sandy stretches this

a very good road. Now as to the mode of procedure repair the bad places in this stretch road. We will make a district of ten miles of this road extending from the city limits south. The city limits will be on terminal and the points 10 miles south of the city will be the other terminal. We will sub-divide the land abutting on either side of these 10 miles of road into quarter section tracts. There will be 40 of them. This would extend a half mile back from the line on either side of the road. However, there is no limit to the distance the benefit district can be extended on either side of the road.

be extended on either side of the road.
Sixty per cent of the persons owning 50 per cent of the land abutting on the road included in the district must petition the county commissioners to get the work started. The petition must state the description of the land to be taxed for the improvement, the name of the road, the terminal points, the kind of improve-

ments and the number of annual assessments to be made in paying therefor, which must not exceed ten.

The county commissioners make surveys of the road, estimate the cost of improvement and the file maps of the land to be taxed. The commissioners take full charge of the improvement, let the contract for the work and issue the special improvement bonds. The abutting land pays three-fourths of the cost and the township or townships through which the roads pass pays one-fourth. The county can be made to pay part of the cost if the commissioners so de-termine. Where bridges and culverts cost more than \$200 the county pays for them. The distribution of the



These Twelve Calves Are Half and Three-Quarter Blood Gaernseys. Owner Refused \$50 Apiece for Them When 15 Months Gld.

cost of the repairs'is a very interesting part of the good roads law.

To illustrate, we will say that it will cost \$6,000 to improve the ten miles of Lawrence avenue road taken for an example. This would grade, drain and cover it with shale or gumbe at the bad spate. We will give drain and cover it with shale or gumbo at the bad spots. We will give the forty quarter sections of land abutting this road an assessed valuation of \$40 an acre, or \$256,000, which is only about one-fourth its real value. The townships through which the road passes pay one-fourth of the \$6,000 or \$1,500 If the county as a whole pays one-fourth and gets the city in on the expense there would be left only \$3,000 for the abutting be left only \$3,000 for the abutting property to pay. Each quarter section would have to pay \$75. If paid in annual installments with interest on deferred payments it would cost each quarter section only about \$20 a year section only about \$9 for 10 year.

The road improvement bonds are issued in the same way as improvement bonds are issued in the city. The land that is taxed is free from road tax while the bonds are running.

The paving of Lawrence avenue cost each 50 feet of ground abutting on that avenue from \$325 to \$350. This gives an opportunity to compare the cost of fixing bad spots in the country roads with the cost of improving the city streets.

This road law looks cumbersome but it is not. I do not believe a more equitable or feasible plan could be suggested for improving the dirt roads. The putting into motion of this ma-chinery for the improvement of the roads is up to the farmer and the land owner. He can get good dirt roads under this law. He can not get them as cheap in any other way.



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

KANSAS FARMER COMPANY, Topeka, Kansas

thought advisable to plow orchards in the fall though weeds, dead limbs and brush from them should be gathered and burned. All these operations serve to destroy innumerable insects and make a great saving on the next year's crop.

Those farmers and farmers sons who desire to compete in the Kansas State corn show to be held at Manhattan this winter should be careful in selecting samples for their entries. Uniformity in size of ears is an important point. Extra large ears are not so likely to win favor with the judges are as those of more moderate ears of about 10 inches in length and 7 to 7½ inches in diameter at a point 1/3 of the length from the butt. Do not pick tapering ears but get those that are nearest the same diamèter throughout their length. Kernels should be in straight rows and of good depth in proportion to the size of the cob. Don't get ears with chaffy grains but those which fit tightly together. Be sure to pick those that are well and uniformly covered at both tip and butt. Avoid ears with mixed colors unless showing in the calico varieties. Pick out the best 50 or 100 ears and then resort until you have 10 good ones. Write to Supt. J. H. Miller, Manhattan, Kan., for rules of entry, prizes, etc.

N N N Great preparations are being made by the state and local good roads associations for the meeting of the National Good Roads Association which will be held at Topeka on December 14 and 15. The Topeka-Shawnee Good Roads Associations was organized to act in conjunction with the Commercial Club as the local hosts for this great national body though the whole state of Kansas as represented by the Kansas Good Roads As sociation will welcome these guests. Speakers of the highest prominence from all over the Union have been invited and many of them have signified their intention of being present. This is the first time the National Good Roads Asociation has held a meeting west of the Mississippi River and this meeting promises to be the greatest in its history. It is estimated that some 2,000 delegates will be present besides the local attendance. Governor Stubbs has recognized this honor to Kansas by appointing delegates from every county and city in the state. The program will appear in Kansas Farmer. in due time.

N N N If there is any section of country in the entire corn belt that would be benefitted by the more general adoption of dairy farming that country would seem to be southeastern Kansas. This section has long been famous for its mines of lead, zinc and coal, for its oil and gas, and the exploitation of these natural resources would seem to have obscured, for the time, its agricultural possibilities. Mining regions are not always the best agricultural regions but they are among the very best market regions. Southeastern Kansas has some rough land, much mining and oil land, and farming operations like those of the wheat belt are neither possible nor desirable. With a market that is ready and more than willing to take every pound of product and with an abundance of good land for the purpose, dairy farming is both possible and desirable in this country. With the aid of the silo and suitable soiling crops the dairy farmer can limit onerations few duplicate or exceed the profits of the bonanza farmer. His need for expensive machinery is not so great, the area to be cultivated is smaller and the intensive methods necessary will pay big profits besides the dividends he makes in the enrichment of his

JE JE JE J. George Frederick, managing editor of Printer's Ink, recently delivered a stereoptician lecture on the use of automobiles on the farm, in which he stated that there are now, by an authoritative estimate 76,000 automobiles, or one-fourth of all the machines used in the United States, now in use on the farm. He stated that of the 45,016 autos, which were recently registered in Kansas one-half were owned by farmers.

The speaker told of the great help

derived by dairy farmers from the auto as it enabled them to deliver milk

"Kansas millers are seeking markets in the west and southwest," said James A. Whitty, Editor of the Southwestern Grain and Flour Journal recently, "be-cause prohibitive freight rates leave them no markets in the East. The millers of the Northwest and that means Minneapolis—have all the East for their own and lower rates. Using the Missouri river would give the Kansas millers the same territory for their product. Millers are ready to fight for water transportation and the Kan-

sas grain journals should back them up." JE JE JE

the near future.

Major Chas. P. Stevers, after a number of years spent in the Phillipines as purchasing commissary for the Army, has been stationed at Kansas City in the same capacity. Stevers has just closed a contract for a large amount of Kansas hard wheat flour which he says is the best in the world. It is to his knowledge of its qualities that Kansas hard wheat flour supplanted the flour of Australia and Californnia for Army use in the Is-

better. It is a well established be-lief that a wet fall practically insures

a good crop of winter wheat and if this

be true, the crop of 1910 ought to be a record breaker.

Poor writing results in the receipt

of 172,000 letters weekly at the dead

letter office at Washington. One hund-

red and seventeen clerks are employed

to handle domestic dead letters. Fifteen thousand pounds of dead letters are received weekly at Washington

and ten thousand pounds are dis-patched every seven days, which means that eventually five thousand

Farmers of the west have long been

urged to buy more land, to raise more crops, to buy more land. They are

new coming to see that this is a wrong

policy and that intensive cultivation brings more dollars because it brings

more crops and makes it possible for

the farmer to attend to those he plants on the smaller area. Drain tilling will be one of the points that will re-ceive serious consideration at the

hands of the progressive farmers of

pounds are destroyed weekly.

Prof. Geo. L. Clothier, graduate of the Kansas Agricultural College in 1892 and now professor of Forestry and Plant Breeding in the Mississippi Agricultural College at Agricultural College postoffice, Miss., is the author of a bulletin on pecan culture. Professor Clothier read a very valuable paper before the American Breeders Association at Columbia, Mo., last winter on the subject of the "Growth and Care of Nut-Bearing Trees." He is a large land owner in Chase and Marion counties, Kan.

The prospects for the annual corn show which will be held at Columbia, Mo., Dec. 28-31 are exceptionally good. The classification is of the best and the officers enthusiastic. Special premiums amounting to about \$750 will be offered in the corn show proper and \$450 in the Boy's corn contest. Last year the Missouri state corn show was excellent in quality though not so large as that of Kansas. This year our sister state promises to give us a race for superiorty.

The Missouri Pacific railroad is about to open an 800 acre sheep pas-ture and feeding yard near Paola, Kansas. The Grand Island road already has one at Hanover and the Santa Fe, at Morris but all these are merely for the care of western sheep enroute to the markets. Locally they are of value to the farmers as furnishing a market for hay and grain but how much more these same farmers would raise sheep for themselves and thus make their own market for feedstuffs and at the same time enrich their farms.

One of the Lest examples of good farming through tile draining with which the writer is familiar is to be seen on Walnut Grove Farm, adjacent to the city of Horton, Kan., where some 36,900 feet of drain tile have

been laid at an approximate cost of \$10 per acre. This tiling system covers only one portion of the farm, but its results are pronounced and satisfactory. Land which was formerly so wet or whose surface baked so hard after a rain that it was not available for cropping, is now among the best acres of the farm by reason of its ready drainage of surface water.

Even if clothes will be higher this winter and other prices were boosted by the patriotic action of Congress in passing the Tariff Bill, the lawmakers did not entirely forget the needs of the people. Overcoats nay be beyond the general reach, but garden seeds be free. Congress not only voted the usual gift to each of its members for distribution among his constituents, but increased it. Eleven million packages are to be sent to brighten the homes where is was necessary to cut down the supply of sugar. Each package contains five varieties of flower and vegetable seed, and is accompanied by a bulletin with instruc-tions how to plant them.

A recent trip through eastern Nebraska showed a condition that does not exist in eastern Kansas. In Nebraska the feed lots everywhere seemed to be filled with cattle and sheep while in Kansas, the farmers are either not feeding cattle to anywhere near the same extent or else they have not begun feeding operations as yet. The number of sheep in the feed lots of Nebraska was much larger than the writer had seen in any other state this fall while the small number in Kansas was surprising. Nebraska farmers raise and feed sheep because they are profitable and Kansas farmers are supposed to have the same object in view. In the latter state however, the raising of dogs seems to pay better, at least we see many more of them. Why?

y y y The abandonment of the western range to the seller has resulted in a two years' decrease in the nation's beef supply. The decrease of beef cattle from 1907 to 1908 was 1,492,731, and the present supply falls short of last year's total by 694,000. With a rapidly growing population, through increase both by birth rate and immigration, our supply of beef cattle is declining and we have lost 2,186,731 cattle in the last two fiscal years. Cattle are gone from eastern Colorado and are fast disappearing from the great ranges of Montana, Texas and New Mexico. The nation must depend upon the corn belt for its future beef supply and the farmers must breed better cattle. Cheap cattle do not go well with high priced land.

* * * On a recent trip over a portion of southeastern Kansas this editor was interested in noticing at various points piles of drain tile which were evidently in place for immediate use in draining nearby lands. Too many farmers have the idea that tile draining is valuable onl for marshy or overflow

This is not correct. It is of land. immense value in such lands, in fact it serves to reclaim them and put them in tillable shape, but it is also of value in other lands as well. In the older states of the middle west tile draining has been practiced quarter century or more, and has invariably resulted in an increase in value of the land so treated. It serves to rapidly drain the surface water, to areate the soil, to make it warmer during the cropping se. son and to make available plant food contained in the sub-soils.

JE JE JE The United States Government is after good men and its Civil Service Commission announces a public examination to be held on December 15, of candidates for the position of Junior Animal Husbandman, in the Bureau of Animal Industry, department of Agriculture. Salaries paid in this Department range from \$1,260 to \$1,560 per year. The Commission also announces a public examination of candidates for the position of Assistant Curator in the Division of Marine Invertibrates of the Smithsonian Insti-tution, which position pays \$125 per These examinations will be held in Kansas at Emporia, Ft. Scott, Lawrence, Manhattan, Salina, Topeka and Wichita and full information may be had by addressing the Civil Service Commission at Washington, D. C. or the postmasters at these cities.

In many sections of Kansas the farmers have united to protect the quail. This is as it should be. There is no more valuable bird on the farm than the quail. He is a great destroyer of noxious insects, and weed seeds, is not injurious to crops and is extremely ornamental on any farm. Just why a farmer's land should be invaded, in season and out, by a lot of irresponsible parties who slaughter these useful birds to their hearts' content is one of the things past finding out. shooters have absolutely no right upon the land belonging to another farmers should protect themselves. The payment of the hunter's license fee does not carry with it the right to shoot upon any body's land without his written permission, nor can the hunter shoot upon the public highway or railroad right of way at any season of the year without violating the law. * * *

The weather conditions of the state are generaly favorable for fall and winter plowing and the wise farmer is he who takes advantage of these conditions and destroys in part at least the hordes of insects which prey upon his crops. The tax levied by insects on the farmers throughout the country is an enormous one and is demanded as regularly as his other taxes. Fall plowing should be practiced on all portions of the farm except pasture and hay land and orchards, while alfalfa fields are all the better if given a cultivation with the renovator or spikedtooth harraw in the early spring before insects begin to hatch. It is not ht

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or cream quickly without disturbing the value of the farm horses during the busy season. He also showed that the use of an automobile in delivering milk to the railroad stations from the farm had greatly widened the area of farm lands on which it is profitable to engage in the milk business. As the auto has four or five times the capacity of a horse without his care it was shown how merely for traction power the auto is an economic advance. Trucks with a 5-ton grain capapity are now in use on the farm and plowing with gasoline tractors is not uncommon on the prairie farms of the west. With the aid of a little ingenuity the farmer may stack his hay, saw wood, pump water and do other work about the farm through the power developed in his automobile.

Just to show what can be done by a properly managed state fair in a very short time, the following facts are quoted from the report of Secretary I. S. Mahan of the Oklahoma State Fair association. The Oklahoma State Fair is now three years old and the total investment in permanent improvements is \$184,707.71. The total receipts for 1909, including gate receipts, concessions, race entry fees, stall rents and grand stand admission was \$86,159.42. The total expenditures for premiums, race purses, advertising and all other outlay was \$58,142.49. This shows a gain of 100 per cent over 1908, and an actual cash gain of \$28,-016.93 for 1909. The increase in paid admissions was 33 per cent, in exhibits 40 per cent, in number of exhibitors 25 per cent. Premiums were paid in cash as follows: Live stock, \$8,840.50, farm products, \$2,656.50, women's department, \$1,464.75, total, \$12,961.75, which is an increase of \$2,202.25 over 1908. The newly elected officers for 1910 are: President, John Fields, vicepresident S. C. Heyman, treasurer, J. L. Wilkin, General Manager, H. Overholser, Secretary, I. S. Mahan, Cklahoma City, re-elected.

JE JE JE A CONCRETE SILO.

The Department of Dairy Husbandry at the Agricultural College has built a concrete silo on a novel and original plan. After a proper foundation has been laid the form of the silo is built of metal lathing which is properly wired together with strong wires to the height and dimensions desired for the finished silo. When this coat has seasoned it is plastered on the other side. Additional coats are added on both sides until the desired thickness is obtained. This seems to be the cheapest and most effective means of building concrete structures of this kind that has yet been thought of, and while this particular silo has not been given a long time test, it promises well and the idea may be suggestive to readers of Kansas Farmer who can use it or some adaptation of it. This idea could be employed in building watering-troughs, hog houses and other farm buildings.

THE ROAD OF THE FUTURE.

All road builders are now engaged in trying to devise a road which will stand motor traffic. Many new methods have been tried, with varying degrees of success, but none of them seems to be perfectly satisfactory. If broken stone is to form the wearing surface then some means must be found to hold the binding particles so firmly that they cannot be sucked out; and sufficient strength must be given to the mass to enable it to withstand the sliding action of the wheels at bends and turns. Several kinds of tar macadam answer fairly well, but they are expensive.

It seems to me that the most promising kind of road for heavy automobile traffic is what is called durax in England. It is a pavement of threeinch irregular cubes of hard stone, laid in small segments of circles. These stones can be cut by machinery, they are laid without grout, but there seems to be no reason for its ommission except the cost. Great quantities of this kind of pavement have been laid in Germany.—The Century.

BORROWERS WITH FIRST RIGHTS.

There are four great interests, each of which in its turn in the course of the year makes more than ordinary demands upon the credit and the currency of the country. They are agriculture, manufacturing, transportation and finance. This is the season of the year when money and credit for the moving of the crops have reached the maximum of demand. For that reason the interest of agriculture and of transportation should be entitled to

have the first call on financial resources of which, under existing currency systems, there are not enough to go round at this time of year.

Just now, also, manufacturing and merchandise are beginning to call for much larger uses of working cap-The best three months of the business year are ahead for the retail traders, and the manufacturing world generally is enlarging its orders and extending its scope of activity. There is no dougt about the larger meas ure of demand which this ground of enterprises will make upon the money resources of the country. As the wage list lengthens and the volume and cost of materials advance, more funds are needed to conduct business than under a lower scale of prices. Thus the burded of manufacturing and the merchandising falls with special force upon the banking capacity of the country in a period when neither agriculture nor transportation can be expected to choke up their channels of activity for want of funds to do their work promptly.

Any extraordinary financing by the issue of bonds and stocks which would for any considerable period tie up moneey must be deferred. On equally good grounds, any effort to maintain a campaign of purely speculative activity would tend to check the true wealth producing activity elsewhere. The banking community can do the country no more positive service than to teach to the speculative world the duty, wisdom and necessity of self restraint, at least until the current of cash and credit begins to swell the central resources of the country's banking power. Meanwhile the lengthening of the period of improved net earnings by the industries and the railroads of the country should form a safer basis for speculative market movements, as well as for enlarging investment in agriculture, in manufacturing, in transportation or in finance.-Wall Street Journal.

THE NATIONAL FARM LAND CON-GRESS.

Begun as a private enterprise, the National Farm Land Congress, which held its sessions in Chicago last week, soon grew beyond all bounds and became really national in its scope and powerful in its influence.

The men who comprised this congress constituted an extraordinary gathering. They came from every quarter and section of the country. Governors, senators, congressmen, railroad presidents, men who do things in all walks of life were assembled under the motto: "Homes for the People, and People for the Homes." It was a public movement for the public good and was not organized for any man's profit or any man's glory

The assembled audience was enormous and its quality of the highest. This congress was the greatest public expression of sympathy with the idea suggested by President Roosevelt when he awakened the nation to the emminent necessity for the conservation of our national resources. It went further than this. It was at once a warning against the danger of congesting our population in the cities, and of depleting our farm working force so that we shall soon become a nation of importers instead of exporters of food stuffs. Above all it was a plea for better methods in farm-

Some idea of the purposes, objects and work of the congress may be gleaned from speeches made by prominent men during its session. Senator Wm. E. Borah of Idaho, said: "The farmer of today is the most potential factor in the whole economic life of the nation. Not so because he is entitled to peculiar favor but because of favors long withheld from him while bestowed upon others. No more important phase of our industrial life has been up for consideration than the exodus from the farm to the city in the last thirty years. If this should continue to the same extent for any considerable time it would be fatal to republican institutions. We can win the gratitude of posterity in no better way than by laying strong and firm and broad the system upon which we are to develop and make permanently prosperous the goodly land which the Lord our God has given us.

Governor Eberhardt of Minnesota: "The most important factor of any commonwealth, as well as the welfare of all civilized nations lies in the soil. No nation, no state, no community great or small can become prosperous without a soil of strong producing power. Without this the physical and

industrial activities as well as the moral and intellectual standard of the people, lags. The climate of Minnesota is all that could be expected of any section. The air is always clear and healthful. The state has still more than twenty million acres of fine agricultural land awaiting settlement by active and progressive farmers."

President F. A. Delano of the Wabash Railroad: "Congestion in large cities means high rents; high rents mean high wages, deficient productivity of the farms means high cost of farm productions, high cost of living for the city man, and that again means higher wages and higher cost of railway operations. The railroads have favored and should continue to help in any proper way in anything that will tend to improve the condition of the farmer."

Senator R. L. Owen; of Oklahoma: "Under proper conditions nothing can be more beautiful or more attractive than farm life. In times past, with bad roads and muddy weather and fields too big for the farmer to cultivate successfully, men have often worked themselves down, have grown weary and made themselves poor by ill-directed effort, and with them their wives and children have become miserable in consequence.

EXECUTIVE COMMITTEEMAN.

A. L. Mort, National Dry Farming Congress: "The work of the general land agent who sells great tracts of land is not to be encouraged. What we want is the man who can take up and operate a small tract successfully. The great trouble and danger in farm life is for a man to try to carry more than his capital warrants. No busi-ness can thrive without capital and the man who urges his fellow to se-cure a large tract of land and undertake to work it with little or no capital is doing him a harm. Small tracts thoroughly cultivated will bring capital for larger uses.

Governor Vessey of South Dakota: "The whole republic of the United States has been built with the farm for its basis, and the change in public sentiment in recent years which has taken away so many boys away from the farm is to be deplored. The remedy lies in making country life so fascinating and so profitable to young people that they will drift to the farm rather than to the city. They will study improved methods of agriculture and with them improve their health increase their wealth and multiply their happiness."

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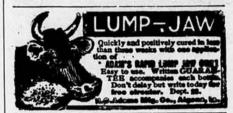
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THE STRAY LIST

Sherman County.—Wilson Peters, Clerk. HORSE—Taken up, July 19, 1909, by W., Bateman in Grant tp., one sorrel horse, on left shoulder; valued at \$75.

Woodson County—John E. Barrett, Clerk. HEIFER—Taken up, Oct. 1 1,1909, by I. T. Summers, in Vernon. Kan., one roan heifer. "F" on right hip; valued at \$20.

Graham County, W. W. Goodow, Clerk. MARE—Taken up, October 2, 1909, by J. A. Crabtree, Hill City, one iron gray mare, weight about 800 lbs., slit in right ear, val-ued at \$60.

Wyandotte County,—Clerk.
COWS—Taken up, October 7, 1909, by A.
D. Phelps, 1718 Freeman Ave., Kansas City,
Kan., one dun or brindle cow, rather large,
large branching horns, white head, white
underneath, all four feet white; valued at
\$40. Also taken up by the above, one
young black cow, small curved horns, white
spot underneath and on left hip; valued
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Napanee.
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Pride of the Prairie Mary.
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Friefly—Intermezzo.
Friefly— Words and Music for plane or organ. Alexander Jones Are You Sincere? Are You Sincere?

Boom Boom.—Comic.

Bolo Rag Song.
Clover Blossoms.
Can't You See?
Dear Heart.
Denver Town.
Down in Jungle Town.
Drenning.
Daisles Won't Tell.
Dublin Daisles.
Floating Along.
Golden Arrow.
Garden of Dreams.
Garden of Dreams.
Her Name is Mary Donohue.
Heinze—New Comic Song.
Her Name is Mary Donohue.
Heinze—New Comic Song.
Honey. On Our Honeymoon.
Hat My Father Wore on St.
Patricks Day.
I Wish I Had A Girl.
I Want Someone to all Medicate Deark.
I Want Someone to all Medicate.
If I Only Had a Sweetheart.
Little Lady—New.
Lady Love—A Big Hit.
Meet Me in the Rose Time, Rosie.
Mandy Lane.
My Heart is Beating Overtime For You.
My Cousin Caruso.
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Send 25 cents for any piece not listed. If more we will advise if less we will refund.

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Interior Mary.
Dublin Daisies.
Dixie Jingles—New.
Dublin Daisies.
Enterpriser Mary.
Easter Lilles Waltz.
Easter Lilles Waltz.
Floating Along.
Fairy Kisses Waitz.
Golden Arrow—Hearis Along.
Fairy Kisses Waitz.
Hearis of Gold March.
I Looks My Gal—New
I Look My Golden Arrow—Indian.
Garden of Love—New Waltz.
Happy Days Waltz.
Happy Days Waltz.
Happy Days Waltz.
Hoating Along.
Floating Along.
Fairy Kisses Waitz.
Golden Arrow—Indian.
Golden Arrow—Indian.
Golden Arrow—Indian.
Golden Arrow—Indian.
Go Boom Boom .- Comic.

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New Pastern. Solid Channel Sfeel Frame
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absolutely complete except plating in plants. Guaranteed accurate and tested to more than its capacity.
Write for our wices and description before buying.

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Brown Swiss Cows

The Michigan Agricultural College farm has some notable Brown Swiss cows in its dairy herd. One of these cows gives in a year 9,633 pounds of milk, which made 424 pounds of but-

Another one 10,158 pounds of milk making 457 pounds of butter.

Another 9,477 pounds of milk, and

416 pounds of butter.

Still another gave 8,120 pounds of milk and made 406 pounds of butter. Their average weight is 1,250 pounds.

What Oleomargarine Is.

According to one oleo manufatur-er's recipe book, "fancy butter" is made from "30 pounds of white oleomargarine, 60 pounds of poor quality butter and 30 pounds of water. Mix well and add coloring matter to suit." Four truck loads of this mixture were seized in Chicago, and the above recipe came to light in the United States District Court. This is what the oleo-margarine dealers sell for butter. The people who pay for butter should get butter. The dairymen are willing that oleo should be sold as oleo not as butter.

Value of Ancestry.

If illustrations of the unerring law of heredity, the value of development and the importance of using only sires from highly developed dams were needed, they are furnished in the records and the pedigrees of the cows that now hold the world's records. The Holstein cows that hold the records in every class are from developed advanced registry dams. Every cow that holds the record in the different classes with one exception, either through her sire or dam, traces to cows that have held the world's record, and that one is from a highly developed cow. What better evidence of the value of ancestry could be asked.

Select a Breed and Stick to it.

Twenty-five years ago D. Drummond, of Ontario, bought an Ayrshire bull and heifer and from this beginning and by the continued use of good bulls has reared some of the largest producing Ayrshire cows of America. He selected a breed and stuck to it. He

says:
"I would strongly urge the necessity of choosing at the outset one of the best milking breeds, and stick to it. I have very often seen a farmer start out fully determined to get up a herd of grade Ayrshires, using a good male animal of that breed, continuing in that line with apparent success, but before he required to change the male, some neighbor had got a nice Jersay, and thinking he had done better with this than the Ayrshire, farmer number one decided to try a Jersey. Following on that line for a few years, not with the success expected, he decided to try a pure Holstein. After giving that cross a trial, he found he had practically put himself out of a dairy cow, without milking qualities, shape of size for beefing purposes."

The Reason of Things.

The successful man in any walk of life is the man who can give a good reason for everything he does. This is positively true of the successful dairyman. He does things differently from other dairymen for a reason. "The successful dairyman," says Gov. Hoard, "knows the reason of the things he is trying to do and the unsuccessful does not.

"Take for instance, this simple matter of supplying a cow with all the pure water she needs. The 'reason of things' tells us, that about seven-eighths of all milk is water; that the more milk a cow yields the more water she must drink; that if she is not furnished this water in a way that she can get it without too much exertion she will go without it, to our most evident injury; that if in winter the water is too cold the cow will not

drink the amount she really needs for our profit: that if the water be impure the milk must necessarily be impure also. All these tnings or conditions belong to the reason, or absolute nature of the cow in her relation to

"But as we note how many farmers violate this established reason of things, we can see how little they know and understand the nature of the cow, or the nature of the very profit they are seeking.

'A humorous old Scotchman in Canada once told us that he thought that the reason why there were so many poor dairy farmers was because they had a sort of 'lazy faith in the Lord.' They think or hope, said he, that He will somehow make up for whatever they fail to do. 'O,' he added, 'we are a trusting lot.'
"Come to think of it, there is a good

deal in the kind of faith we have in Providence, whether it is a working faith or not. But we must look into the 'reason of things.' "

Maintain Oleo Tax.

The next session of congress will be asked by the packers to repeal or modify the present law taxing oleo-margarine and other imitations of but-

Congress ought not to be willing to listen to appeals in behalf of anything that is counterfeit, and especially a counterfeit directed against a good industry and a fraud upon honest peo-Your congressman won't help abolish the anti-oleo law if you and your neighbors make your wishes known to him.

The present oleomargarine law ought to be maintained and enforced because it stands for honesty in dealing, just as any other law in behalf of integrity and against fraud should

be supported.

The law should also be supported and enforced in simple justice to the foundation industry of the nation, whose dairy interests are menaced, perhaps will be ruined, by cheap, spurious butter.

The law should be enforced and indeed extended as a pure food regula-tion—good butter made from cow's milk is the healthiest and most easily digestible of fats, while the fake butter is a nandicap on the stomach as well as a tax upon the pocketbook.

And yet there is unquestionably an effort to be made in the next session of congress to repeal the anti-oleo law, or modify it so as to be ineffective. After which, ir such condition is secured, there will be the competition of bogus butter against the genuine dairy product, with both decreased sales and lessened profits for honest

A good method of opposition to the repeal or weakening of the present anti-oleo law is by resolutions of agricultural societies, clubs, granges or other associations. An equally forcible and more direct method is by personal letters to congressmen. Farmers can prevent action in congress hostile to their interests if they choose to exert themselves, and within the next few weeks is the time to make the ffort most effective. Congressmen agricultural sections will not from dare let the anti-oleo law be repealed if their constituents advise them plainly and forcibly.

Write your congressman now. Tell him it will hurt you and your neighbors to weaken or abandon the present anti-oleo law. Explain your position to him, your business, your investment in cows, your work to improve stock and farm, how many people are interested in your dairy interest, what your community thinks of the value of the present law. When the repealer or weakener of the antioleo law comes along in congress write your representative again, and watch closely that you may know when such repealing bill is introduced.

The Profitable Dairy Cow. The question often arises, is a profitable dairy cow?" The only direct answer must of necessity be a general one. A profitable dairy cow may be defined as one that will pro-

duce enough to pay for her feed, care, interest on the necessary investments, and some profit besides. A profitable dairy cow then is one that will convert feed and labor into profits economically without removing the fertility from the farm.

The cost of keeping a dairy cow will vary according to locality and cost of feed and labor. Under ordinary conditions in South Dakota, the cost of keeping an average dairy cow is about \$35 per year. Three thousand pounds of milk testing 4 per cent fat, contains 120 pounds of fat and yields about 2,500 pounds of skim-milk. The fat is worth about \$30 and the skimmilk about \$5, a total income of \$35. Such a cow is not earning money very fast for her keeper. The only profit obtained is what the calf is worth and the fertility retained on tne farm. These latter are of course important factors. According to the best obtainable statistics the above mentioned figures represent the average production of each of the 300,000 dairy cows in South Dakota.

In passing from range conditions to a system of mixed farming, as South Dakota is, its people naturally carry with them cows representative of the range type and also a cultivated liking for that particular type.

That there should be some degree of slowness in changing from the range type to the dairy cow type can not be wondered at. Those who have not been fortunate as to buy large tracts of land while it was cheap years ago, and who are obliged to farm more intensively, and who like the mixed system of farming, are rapidly seeing that it does not pay to milk the cow that produces only about 120 pounds of butter-fat per year, when it is so evident that a cow producing twice that amount can be secured by the application of a few simple principles. Improvement in the production of the dairy cows may be accomplished:

By using a dairy sire, whose dam, grand-dam and great grand-dam have all been excellent and profitable dairy performers. The sire, if of pure blood, has more than half the influence on the character of the offspring. For this reason, the head of the herd should be selected with extreme care.

By selecting for the future herd the hener calves from the best producing cows.

By culling from the milking herd the poorest cows as fast as they can be spared.

By giving these cows the best of feed and care.-C. Larson, Prof. Dairy Husbandry, S. D. Agricultural College.

Reduce Cost of Milk Production. Cheap milk production is the theme

of the dairyman, or at least should be. The cow, the food and the care, are the main channels to this end. All should be studied by the milk producer and neglecting either will mean loss. The cow should be a dairy animal or at least a good producer, and knowing that to keep her means expense, the net profits should come through her production over and above cost of feed and care.

In the corn belt it costs from \$25 to \$35 to feed a cow one year and her care will cost close to \$25, then the total cost is about \$60 and to reduce this without lowering the production means good feeding and care. The cow that produces 125 pounds of butter-fat per year will return \$31.25 for butter-fat at 25 cents per pound, \$8 for skim-milk, \$5 for a calf and \$10 for fertilizer, making \$54.25 in total. Such a cow, it will be seen, can make little or no profit. The price of the calf is low, but it is quite the average for the country over, and only pure bred stock can make a better showing on values of calves. Such a cow would hardly cost \$30 to feed and no doubt her care would be less than \$25 per year, but the profit, if any, would be very small and her keeper would be doing a very poor business.

The cow is the first and most important channel for milk-production. It may be said that it is not necessary to keep such cows, and of course it is not, but we must remember that twothirds of the cows of the country are of the 125-pound butter-fat per year kind and so long as this is true, there is need for improvement. The feeding of the cow is neglected fully as much as the kind of cow and in nine cases out of 10, the cow is underfed and not supplied the food necessary for her greatest profit. Good feeding means supplying the animal with required nutriment at the least possible cost. The roughage is of the most importance and should be produced on the

farm. Silage, alfalfa, clover and roots should be the principal crops of this kind and the manure from the yard will insure large vields.

The silo I consider of the greatest importance in reducing the feed bill and this forage with alfalfa hay should make up at least two-thirds of the bulk of the feed given. For grain and mill stuff, the price should determine what feeds to choose and here a knowledge of stock feeding is required. In general, corn, bran and oilmeal will be found of the best and cheapest. The grain should be given in amounts consistent with the animal's ability to handle the food. general, it can be said that they should have what they will eat up clean and not gain in body weight. A dairy cow should not be fattened, although she should be kept in good condition.

The care given the cows will to quite an extent influence the cost of the milk. An animal will do her best when she is comfortable and her comfort will mean plenty of food and water, a good place to rest and regular feeding, milking, etc. The cows in our barn will show much uneasiness if the feeding time is delayed fifteen minutes. Dairying to be the most profitable should be a business and not a neglected side issue. If it be a side issue, some of the principles at least of good dairying should be prac-

In the cornbelt milk can be produced as cheaply or more cheaply than in any section of our country, but I am free to say that I believe it is not being so produced and the principal cause is due to its being a side issue where it does not receive the care and study required to make it pay. With business methods ap-plied to dairying and study given the cow, her feed and care, the land of corn and alfalfa can produce milk at the lowest cost and greatest profit.— A. L. Haecker, Nebraska Experiment Station.

Some Dairying in Country Schools. Every farmer should be interested in keeping the boys and girls on the One way to do this is to make farm life and work as attractive that they will not want to leave it. This can be done by showing the young folks that there is something to farming besides hard manual labor something requiring study, exercise of brain power, intelligence. This can be shown by simple instruction in the fundamentals of agriculture in the country schools. Dozens of important agricultural truths can be simply and plainly presented which will open the eye of the boy or give to the possibilities of exercising brain power in their dairy work.

A. O. Auten, Jerseyville, Ill., the president of the Illinois Dairy Cattle Improvement Association, is a very practical business man and, therefore, a successful dairyman. He conducts a model dairy that has from the first made a good showing on the right side of the ledger. President Auten has interested a few county superintendents of schools and teachers and the results have been so highly satisfactory in educating the boys and girls in the study of milk production, milk testing, the ration of milk, etc., that he has in the following letter invited the 102 county superintendents of schools in Illinois to co-operate with the Illinois Dairy Cattle Improvement Association in the work of promoting the dairy industry of that state:

"A county superintendent of schools in a county in this state is doing a great work for the dairy industry of his county by an object lesson in milk testing, which has proved to be not only popular but profitable to the owner of every cow, who has children attending the rural schools in said

This very practical and far seeing



PATENTS that PROTECT A. B. LACEY, Washington, D. C., Dept. 40, Est. 1869

county superintendent of schools has purchased a Babcock milk testing outfit for the use of the teachers of the

rural schools of his county.
"The children bring to the school samples of milk of one or more cows. The milk is tested and the result is announced for the benefit of the entire school. The children bring with the milk, the weight of the milk given by the cow for the past twenty-four hours, as well as the weight, age and breeding of the cow.

"These data enables the teacher to determine the weight of the milk for a month, the per cent of butter-fat and its value, which is posted on the black board. The weight and product of each cow enable the teacher to give the weight and kind of food to make up a balanced ration and cost of the feed. By a very simple calculation on the black board, the profit or loss in keeping the several cows is deter-mined. The children make copies of the data on the black board about the cows of their parents and take the same home for further consideration in the family circle.

"The county superintendent who has introduced this striking object lesson in reporting results, remarked that the parents of the children who were taking part in the milk testing study were selling many of their former favorite cows.

This milk testing lesson, if it could be presented but twice in each school year to the several rural schools of th state, would accomplish wonders in the way of weeding out poor cows and the study of the breed and ration necessary to ensure a better margin of profit on each cow in the herd. There is nothing like an object lesson, with the facts and figures, to convince the average farmer. The above plan will convince the youngsters and their par-ents will not be slow in adopting the better methods that will soon be fol-

lowed in such neighborhoods.
"The children that have the advantage of milk testing study referred to above will soon increase the demand for pure bred dairy cattle in their respective localities.

"You are invited to consider the matter of securing the simple and in-expensive milk testing outfit referred to above and give the pupils of the rural schools in your county a demonstration that will be of untold value to the dairy industry of your county and the entire state.

"The dairy will soon be the leading industry in Illinois and the profit therefrom will depend largely upon the education of the boys soon to be our dairymen in all matters that enter into economy of production of milk and the quanty of the milk, cream and butter marketed.

"Your hearty co-operation in the

above matter is invited."

Now isn't that easy? Isn't it worth while? Will you not show this article to the teacher in your district and ask that such an exercise be introduced into your school? The teacher may need some help from you. You can give it. Kansas Farmer will guarantee that your teacher will be glad you called attention to this exercise.

Cleanliness in Farm Buttermaking.

When using the term cleanliness in speakinn of buttermaking it means to most people simply the necessary care taken to prevent contamination during cream ripening and during the manufacture of the butter.

This subject shouldd, however, be considered under two heads, (1) cleanfiness in the production and handling of the milk and cream, and (2) cleanliness in the manufacture of the but-The place and conditions for carrying out the operations under both of these heads vary considerably. A large part of the work under the first heading, cleanliness in the production and handling of the milk, particularly the milking and separating, is generally carried out by the men, while the churning of the cream and the making of the butter is more often done by the women. It is much more difficult to keep the place where the cows are kept and milked free from contaminating surroundings than the place where the butter is made, the former being done in the barn, the latter in the house or in a special room or building kept for that purpose. Considering this and also the fact that women as a rule, excel men in cleanliness, it can readily be seen that more often the conditions under which milking and separating took place and the conditions under which the butter is made, are responsible for the poor quality of butter often made on the farm.—Fred

Readers Market Place

CLASSIFIED ADVERTISING 3 CENTS A WORD

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

HELP WANTED.

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

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

WANTED-LOCAL MEN TO TAKE ORders for high grade western grown nursery stock. Experience unnecessary. Outfit free. Cash weekly. National N reseries, Lawrence,

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.

CATTLE.

POLLED JERSEYS—FOR BREEDERS' ames write Charles S. Hatfield, Bo 8, Route , Springfield, Ohio.

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

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

FOR SALE—25 FANCY BRED, GRADE Holstein helfors due to calf by registered Holstein bull this winter. H. B. Browning, Linwood, Kan.

FOR SALE—FULL BLOOD RED Polled bull, eleven months old. Duroc Jersey hogs. 70 head to select from; priced right. I. W. Poulton, Medora, Kansas.

JERSEY CATTLE, CHOICE BULL calves of the very best breeding \$25.00 each. A few cows and helfers H. C. Young, Wineland Farm Dairy, Lincoln, Neb.

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

FOR SALE TO DISSOLVE PARTNER-ship—Fourteen head choice Jersey cows, ten heifers, and three year old buil Finan-cial Count, a half brother to Financial Countess, last year 'champion butter cow of Jersey breed. Eleven head registered. Will sell registered separate. Kirkpatrick & Musil, Wellsville, Kan.

ALYSDALE SHORTHORNS — HERD headed by Archer's Victor 292012. For Sale. Prince Consort 187008, heautiful dark red. 8 years old, sired by Imported Prince of Perth, dam full sister to "Lavender Visceunt." Is a straight Scotch bull of the finest breeding. Also four fine yearling bulls, red in color, and about 8 richly bred cows and helfers, all at a bargain. Come and see them. Chas. W. Merriam, Columbian Building, Topeka, Kansas.

HORSES AND MULES.

SHETLAND PONIES—WRITE OR COME and see us; we are sure to please you. Low prices for 30 days only. Clark Bros., Auburn, Nebraska,

FOR SALE OR TRADE—ONE JACK was two years old August 5; weight 750 pounds, is 14½ hands high and has very heavy bones. Earl Wilson, Palmer, Kan.

NAVAJO PONIES—HAYNES BROS. OF Haynes New Mexico can furnish ponies in car lots, either sex and all ages and colors. Would consider trade for young Percheron mares and stallion. Also want two good mares and stallion. Also want to Shorthorn cows and yearling bull.

SWINE.

O. I. C. BOARS OF ALL AGES AT farmer's prices. Prize winning stock. Arthur Mosse, R. F. D. No. 5, Leavenworth, Kan.

POLAND CHINA BOARS, PURE BRED, fine individuals. 175 lbs., big boned, growthy, no culls. A. P. Wrlght, Valley Center, Kan.

POLAND CHINA BOARS AND GILTS; pure bred, Meddler strain, fine individuals, big boned, growthy. G. F. Lilly, Silyver Lake, Kan. Bell phone, 515.

Rasmussen in Bulletin 141, N. H. College of Agriculture.

Cure Egg-Eating Dog. A subscriber writes: Make a hole

in either end of an egg and blow out about half of the contents. Then blow in cayenne pepper and put wax over the hole. Put this egg where the dog will find it easily. Usually one experience with an egg of this sort will break him of egg-eating.

If leaves are not plenty, millet hay or unthreshed oats make good material for the hens to do their scratching in and remember that where there is no scratching or exercise for the hens, there will be but few eggs.

REAL ESTATE.

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

NOTICE THE OTHER BARGAINS IN Real Estate offered under Bargains in Farms and Ranches in this paper.

FREE INFORMATION ABOUT OKLA-homa. Homer B. Wilson. Here since 1893. Enid, Okla.

A 1953 ACRE IMPROVED RANCH IN Hodgeman county, Kansas, for sale at \$15 an acre. John L. Wyatt, Hutchinson, Kan.

CHOICE KANSAS FARMS AND Ranches. Bargains in Pottawatomie and Write Umschied & Ulrich, Wamego, Kan.

NORTHEASTERN KANSAS FARMS FOR sale near St. Joseph, Atchison, Leavenworth and Topeka. Come and see. E. T. Lehman, Nortonville, Kan.

BUSINESS CARDS 500 FOR \$1.50— Prompt service. Send for samples and esti-mates. Western Printing Co., Ptg. Dept. of Kansas Farmer, Topeka, Kan.

CHOICE DAIRY FARM—240 ACRES, 1 mile from Concordia, Kan. Alfalfa, corn, wheat, pasture, water. Write Theodore Laing, Concordia, Kan.

FOR SALE—SEVERAL FARMS, just listed, from 10 to 30 acres, in this vicinity, that are bargains. H. C. Bowman Real Estate Agency

TWO 80-ACRE FARMS AT \$1,200 EACH. 240 acre farm well improved, 150 in cultivation, 100 of this bottom land, does not overflow. For any information write Box 41, Maromie, Okla.

240 ACRES SMOOTH LAND 85 ACRES under cultivation, fair improvements, good well and windmill. \$35 per acre. W. L. Bidwell, Rosalia, 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.

MR. FARMER, HUY A FEW ACRES AD-joining Kansas City. It will make you rich as the city grows. I have some real bar-gains. R. W. Sholders, Kansas City, Mo.

FOR SALE—SIXTY ACRE FARM NICELY improved, three miles from Coffeyville, possession. Price, \$2,800. \$1,000 cash will handle. See The Upham-Cherokee Land Agency First National Bank Building, Coffeyville. Kansas.

COME TO OREGON. I HAVE BEAUTI-ful homes and farms for sale. Write or send \$1.00 for a year's subscription to the Silverton Leader. J. E. Hosmer, Editor, Silverton, Oregon.

FRANKLIN COUNTY, KAN., 160 ACRES, 100 plowed, most of which is alfalfa land; will rent for \$275. Only \$30 per acre. Also extra fine dairy proposition. Buckeye Agency, Williamsburg, Kan.

FOR SALE—1050 ACRES OF RICH bottom land within one mile of a good R. R. town in Wilson county, Kan.; 450 acres in cultivation now and all can be cultivated. Price \$27.50 per acre. Terms on part if desired. This is a snap. J. L. Skaggs & Co., Fredonia, Kan.

SELL YOUR PROPERTY FOR CASH IN less than 90 days; properties and business of all kinds sold quickly in all parts of the world; send description today, we can save you time and money. The Real Estate Salesman, K. Funke Bldg., Lincoln, Neb.

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

FOR SALE-3 QUARTER SECTION OF FOR SALE—3 QUARTER SECTION OF land on the north slope of wheat ridge, 6 miles south of Dodge City, Ford Co., Kan. Price is right. 135 a. in whaat, good stand, good terms. Buy of me and save commis-sion. W. S. Marion, owner, Dodge City,

KING ALFALFA MAKES FORTUNES for owners of Eastern Colorado sub-irrigated low-priced farm lands, near Den-ver. Send for our alfalfa literature, Colo-rado, Farm Land Association, 279 Dearborn St., Chicago, Ill. Live agents wanted in town or country.

WHO WANTS THIS INVESTMENT 1 and 9 acres of nice rolling, not rough land. 9 miles from town. 285 in cultivation; 35 nice meadow; a small granary, only building. This is a good wheat farm and for an acres a good income. \$37.50 per WHO WANTS THIS INVESTMENT?-820 ing. This is a good wheat taken ing. This is a good income. \$27.50 per investment pays a good income. \$27.50 per acre. Write for list. V. E. Niquette, Salina,

FOR SALE—THE CHEAPEST RANCH IN Eastern Knnsas; 1120 acres, 90 miles southwest of Kansas City; joining railroad station: all tillable land. Well fenced, subdivided and watered; 300 acres in cultivation. Excellent and extensive improvements. A complete ranch, in good order, Can sub-divide. Price \$45 per acre. Danlels & Martin, 23 Columbian Bidg., Topeka, Kan.

TRADE EQUITY FOR PERCHERON Stallion or mares. 80 acre improved land, 55 acres cutivation, balance pasture. 5 room house, good barn, room for 15 head, 800 income crop. 1 mile to town and school. Hedge fence, plenty water, price \$35. Only 4 miles from Harveyville. Write or come, Box 15, Harveyville, Kan.

REAL ESTATE.

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

A CHACKER JACK FARM, 360 ACRES, 3 miles from Clyde, with magnificent improvements, house 18x28 2 stories high, lot 16x 24, barn 60v62, 70 acres in alfalfa, 80 acres in wheat, 60 acres corn ground. 2 acres of fine orchard, balance in meadow and pasture, a perfect water system for stock. This is a bargain for the man who is looking for a fine home. Price, \$75 per acre. J. C. Murphy, Clyde, Kan.

MISCELLANEOUS.

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

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

PATENTS PROCURED AND SOLD; BIG money in patents; book free. 115 Dearborn St., Chicago, Ill.

POULTRY.

EXTRA GOOD BUFF ORPINGTON cock-rels. Harry Cure, Atchison, Kan.

PEKIN DUCKS, BUFF PLYMOUTH Rocks. Dudley, Lawrence, Kan., R. 1.

BUFF ROCK COCKERELS-\$1 AND \$2 ach. Mrs. John Beil, Ackerland, Kan.

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

MAMMOUTH TOULOUSE GEESE FOR sale, \$2 each. Mrs. W. E. Bradley, Effingham, Kan.

SINGLE COMB WHITE LEGHORN hens, pullets, cockerels. R. W. Yeoman Lawrence, Kan.

FOR SALE—BUFF WYANDOTTE COCK-ercls. Write for prices. Address W. K. Heaton, Garfield. Kan.

SINGLE COMB RHODE ISLAND REDS—Pullets and cockerels for sale. Harry Menter, 1534 Mulvane street, Topeka, Kan.

"EVERY FEATHER BUFF" LEGHORNS and Rocks, best grown, \$2 each. Mrs. Cora Ben, Moline, Kan.

BARRED ROCK COCKERELS FOR SALE at reasonable prices. Mrs. E. L. Rice, Route 2. Eureka, Kan.

S. C. W. LEGHORN COCKERELS, farm raised, two for \$5, one for \$3. Carrie Dawdy, Jewell, Kan.

FOR SALE—A CHOICE LOT OF BAR-red P. Rock cockerels at \$1.50 each. D. N. Hill, Route 1, Lyons, Kan.

FOR SALE—SINGLE COMB BUFF ORP-ington cockerels, hens and pullets; also Buff Orpington ducks. C. B. Owen, Lawrence,

WHITE PLYMOUTH ROCK COCKERELS pize winners at \$1.50 and \$1.00 each; also Pekin drakes \$1.00 each. L. T. Spellman, Route 8, Paola; Kan.

BLACK LANGSHAN COCKERELS— Standard bred. Large bone. Green barring. One for \$2. Two for \$3. Mrs. D. A. Swank, Blue Mound, Kan.

CHESTNUTS GUARANTEED FORMU-las for Roup and Peultry Food. \$1.00. H. V. Chestnut, Centralia, Kansas, (breedor of White Faced Black Spanish Chickens.)

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

PARTRIDGE WYANDOTTES—A NUM-ber of good cockerels from prize winning stock. Write your wants to S. S. Jackson, Scranton, Kan.

PURE BRED WHITE HOLLAND TUR-keys, \$7.00 per pair; toms, \$4.90. Strong, vigorous Barred Rock and R. C. R. I. Red cock-rels and pullets. Write vour wants. Mrs. W. A. Schreier, Argonia, Kan.

CHOICE LIGHT BRAHMA COCKERELS at \$2 cach. Remember we won first pen. Kansas State Fair 1908, first pen, Kansas State Show, 1909. Order from this ad. Satisfaction guaranteed. Western Home Farm St. John, Kan.

100 EXTRA GOOD BARRED PLYMOUTH Rock Cockerels. They are of the E. B. Tompson strain, large birds and nicely barred, have wone over 50 premiums in last three years, satisfaction guaranteed. Paul Oliver, Danville, Kan.

LAYING STRAIN ROSE COMB BROWN Leghorn cockerels, fine birds, no disqualification, \$1.00 each. Selected for high scoring \$2 to \$5 each; yearling hens, \$12 per doz.; return if not satisfied. H. M. Johnaoz.; return if not son, Formoso, Kan.

DOGS.

FOR SALE—Brown and black spaniels, both sexes, good ones, cheap; closing out. Thorndale Kennels, Wayne, Kan.

FOR SALE—COLLIES OF ALL AGES.
Natural born cattle drivers. Pedigreed stock
Write for circular. Harry Wells, Believille.

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

COLLIES OF ALL AGES FOR SALE—
They are stock drivers, pets and home protectors, 260 head sold last year. Write for
illustrated circular and prices. Would like to
buy a few ferrets. Address Harvey's Dog
Farm, Clay Center, Neb.

LAWVERS.

A. A. GRAHAM ATTORNEY AT LAW, Topeka, Kan.

DRY FARMING METHODS

Dust Mulch Necessary to Conserve Moisture.

The scarcity of farm lands and the necessity for farming western lands has caused a rapidly increasing interest in dry farming methods. KANSAS FARMER has stated time and again that the so-called dry farming methods are only the methods of good farming. Whether the farmer is in western Kansas or in Illinois there is the same reason for conserving the moisture of the soil. Good farming in Illinois will result in keeping the moisture in the soil, just as good farming in western Kansas makes it

At the dry farming congress re-cently held in Denver, a southwestern Texas farmer made a practical statement of dry farming methods, deemed so important that it has been published in a bulletin. From this bulletin the following has been taken:

The great principal underlaying this

mode of farming is how to get mois-ture to our growing crops when rain is deficient. Where you have a re-tentive subsoil the problem is more easily solved. A clay subsoil is the sheet anchor of dry farming.

When this subsoil has absorbed

moisture it retains it until liberated by frequent tillage. The reason, therefore, of my success is that I have the subsoil necessary to retain moisture and have applied the necessary means of bringing to the growing crops the moisture required to their full development. It is my practice to keep the soil continually stirred, thus keeping it mellow and friable. This method of cultivation is known as the dust mulch or blanket system. This enables capillary attraction to do its work.

Last season we were deficient twelve inches of rain; again this season we are, at present, behind that. Still, by my method of frequent cultivation, I have now growing and nearly matured, Irish potatoes, peas, tomatoes, radishes and about 5,000 cabbage plants, making good growth, some of which will be fit for market in six weeks, although our rainfall during the last three or four months has been

less than three inches. In my truck patch all land un-cropped, when possible, I keep plowed on the surface. Land allowed to get hard on the surface will soon dry out and deteriorate. Soil, to retain its vitality, requires air as well as water, therefore if you cannot get the one give the other. It is the same by irriga-tion or by excess of rain; after the

land becomes saturated it needs constant cultivation to give vitality. Plant life is much like human life, requiring the elements most necessary to produce growth, and unless we aid the soil to give it elements conducive to growth we get sickly plants and poor

Some may say that it is fertilizing that gives the growth Yes, under proper conditions only, and unless you make these conditions available all your fertilizers will be of no benefit. I am aware that many farmers have an idea that when the season is dry, soil should not be disturbed or it will

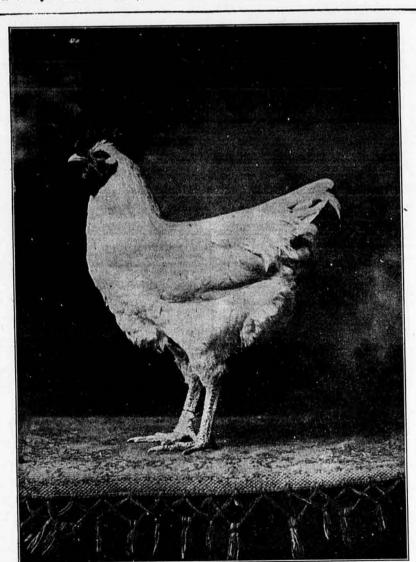
This is true with regard to deep plowing but it is just the opposite with shallow cultivation. By constant cul-tivation of soll, cropped or uncropped, a falling rain will penetrate readily and prevent washing of the soil to a great extent. This method of mulching by constant cultivation is, I believe, also on the principle of the Campbell system of dry farming, and is just as applicable to corn as to truck grow-

The fact is indisputable that it is only quite recently that we have discovered the value of the semi-arid lands. To develop these we need education to enable our farmers to cultivate these lands under improved methods. As to tools to be used for securing a dust mulch, these should be of five-tooth one-horse expansion cultivator as also the one-horse expansion harrow of fifteen teeth. Sweeps and shovel plows will not answer as well. Shallow cultivation is needed and in dry weather never expansions. pose or turn over new soil, but let the dirt or soil fall back with little exposure. Allow no weeds or grass to interfere with your growing, as they will rob the moisture from your

Agriculture in Country Schools. Miss Lois Coffey, of Macomb, Ill. has developed some very good work in teaching agriculture in the geography class.

The uppermost idea here is to show

what practical things of the farm can be successfully taught to children and made even more cultural and interesting than the old book studies. Garden plots, 20 feet square, were planted, one each in corn, clover, cow-peas and soy-beans and two in al-falfa.



First cockerel, Kansas State Show at Newton, Kan., 1909, bred and owned by Blue Ribbon Farm, Sharon, Kan., originator of the famous white ivory strain of White Rocks.

PERCHERONS, SHIRES, SADDLERS & JACKS

E have for sale 28 head of registered jacks and jennets, 12 head of registered Percheron stallions and mares, one imported English Shire stallion, and one combination saddle and harness stallion. We will make prices to quick buyers that will be sure to move them. Come and see them or write to F. W. POOS, POTTER, KAN.

RHEA BROS. Acclimated Percherons

You may say, this little ad looks cheap offering so many good horses. Well friend, it is cheaper than a larger space., that's why we use it. The buyer pays for it. REMEMBER THAT. You who have seen our horses at the State Fairs far years know that they are not the cheap kind; although by our economical system of raising and selling our stallions we can sell cheaper than most dealers. The records show that we exhibited three year old Percheron stallions at the Nebraska State Fair 1909 with five importers who claim to have bought the best in France and our horses stood 1st 3rd and 5th. They are all for sale at very reasonable prices. Every one fully guaranteed. Terms to suit. Life insurance furnished.

Write today or come to

ARLINGTON, NEB.

On main line C. & N. W. R. R., 25 miles N. W. of Omaha, 8 miles east of Fremont, 12 passenger trains daily.

The daily lessons in corn were written in composition form by each pupil. The errors made were noted, but the work was not rewritten. This furnished excellent motive for correct

Each child decorated his booklet cover with an original corn drawing, and some excellent results were obtained. The following items were taken from the best one of these booklets in

the pupil's language:
"Humus is wholly decayed vegetable matter of a very fine texture and dark-brown or black color. Partly decayed vegetable matter is not humus."

"Humus is formed by the action of bacteria on vegetable matter in the presence of a small amount of air and dampness. If too much air is present carbonic acid gas is formed.

"The principal use of humus is for food for growing vegetable organisms because it is decayed vegetable matter which is composed of hydrogen, nitrogen, oxygen, and carbon. It also improves the texture of the different soils. Humus united with clay makes it more porous, and with sand, makes it less porous. Humus, being of a loose, fine texture, increases the capacity or film water because it has more surface to be covered.

"Leguminous plants produce their seeds in pods and transfer nitrogen from the air to the seil. Clover, white or red, alfalfa, sey-beans, cow-peas, and vetches are the commonest legumes.

"The bacteria gather the nitrogen from the air and when the plant dies the nitrogen goes into the soil. Bacteria are microscopical vegetable organisms which are present in almost everything. These live in the nodules of tubercles on the roots of legumes. These bacteria have plenty of nitrogen to draw from as there are 75,000,000 pounds in the air on every acre of land.

"Tillage also saves moisture because it increases the capacity of the soil for film water. One man found that on a soil nine to 17 inches deep there was 17 per cent of water, and in another part of the field there was only 12 per cent of water. The first part of the field had been properly tilled Tillage preand the other had not. vents vaporation by making a soil mulch or blanket to keep the sun from evaporating the underlaying mois-

L. S. Wilson, of Cheyenne Wells, Colo., has a 132-acre farm 6 miles from Cheyenne Wells that will please any one interested at \$16.00 per acre. Easy terms. Mr. Wilson is the owner. Write or go and see him

Hide and Fur Market

FOR WEEK Eliging December 1.	
Hides.	0
	No. 2.
Green Salt Cured 121/20	11 1/2 C
Green Salt Cured, Side Brands	A-PERSONAL PROPERTY.
40 lbs. up	10 1/2 c
Green Salt Cured, Side Brands	
40 !bs. down	9 1/2 C
Green Salt Cured Bulls and	
Stags	10 16 C
Green Salt Cared. Glue	6 1/2 C
Green Salt Cured Deacons25 c	50 C
Slunk	20 C
Tallow	4 1/6 C
Bees Wax	15 C
Horse Hides 2.50@3.25 1.5	0@2 25
Ponies and No. 3	750
Ponies and No. 3 of Green	
Dry Horse, half price of Green.	@ \$1 00
Green Salt Sheep Pelts25c	eame
Green Uncured Hides 11/2c less that	l same
grade cured. Green Half Cured,	4 C 1699
than cured.	
Dry Hides.	170
Dry Flint, Butchers' Heavy	160
Dry Flint, Fallen Heavy	
Dry Flint, Light, under 16 pounds	11(0)163
Dry Flint, Culls	100
Dry Salt, Heavy (18 lbs. and up)	140
Dry Salt, Light (under 18 lbs.)	100
Dry Sheep Pelts1	0c@12c
Trans	

Raccoon, large, prime\$
Raccoon, medium.
Raccoon, small and No. 2.....

black prime

Skunk, narrow stripe	.85@ 1.25
Skunk, broad	.25 @ .50
Mink, large dark, No. 1	4.50@ 5.09
Mink, medlum, Ne. 1	3.00@ 3.50
Mink, small and No. 2	1.75@ 2.25
Oppossum, large cased No. 1	.35@ .50
Oppossum, medium.	.25@ .40
Oppessum, smalu	.10@ .15
Muskrat, winter.	
Muskrat, fall.	.25@ .30
Kits.	
	.25@ .45
Civit.	.05@ .10
House Cats	.60 0 1.00
Fox, gray	
Fox, red, prime	
Wolf, prime mountain	
Wolf, prairie	1.00@ 2.00
Wild Cat	.25@ .75
Beaver, large, each	5500 @
Beaver, medium	3,50 @ 4.00
Beaver, small	1.50@ 3.00
Badger, No. 1	.50
Others worthless	S. V. A. V. D. C.
Otter, prime, large	10.00@12.00
Unprime furs at value.	
Capitalio Luis ise value.	

Hides are Valuable

and you cannot afford to run chances by shipping to anyone but the firm at the head of the trade in KANSAS-THE PIONEERS KANSAS HIDE TRADE - established 1865-Forty-five years business existence must prove-our prices the highest-service the best-so ship to us.



Topeka HIDE COMPANY Kansas

SEND US YOUR HIDES.



We will tan and make them into Coats and Robes at a great saving to you. Do not sell your hidesfor a few dollars and then buy a coat or robe made from scraps and pieces. But send us a horse or cattle hide and we will make you a Coat or Robe from the whole hide and save you 50 per cent.

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SALE OF UNCLAIMED FREIGHT.

Notice is hereby given, that on Monday the 20th day of December, 1909, at 10 o'clock A. M., there will be sold at public auction, for cash, at the east door of the freight depot of The Chicago, Rock Island and Pacific Railway Company, in the city of Topeka, Shawnee County, Kansas, one carload of ties, shipped from Forsythe Junction, Missouri, to Topeka, Kansas in car 31216 Frisco, by W. K. Folks, of Lawrence, Kansas, on or about January 8th, 1909, said ties now being stored in the freight yards of the said Railway Company at Topeka, Kansas, and having been unclaimed for more than six months, and that the proceeds of said sale will be applied to the payment of freight charges, demurrage, storage, and other charges due on said ties.

THE CHICAGO, ROCK ISLAND and PACIFIC RAILWAY COMPANY.

75 selected pullets and a few choice cockerels at reasonabe prices. Flock headed by cock thut won first at Mo. state show last year.

DeLOSS CHAPIN, (Clay County)

Kan.

BRONZE TURKEYS. Choice toms and hens from pen headed 40 lb. tom; 25 fine Rose Camb Brown by 49 lb. tom; 25 fine Rose Communication cockerels; reasonable prices.

MRS. H. B. WALTER,

Kans

Effingham,

SEED CORN.

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

ROBT. I. YOUNG, St. Joseph, Mo. R. F. D. E.

WHITE IVORY STRAIN WHITE
PLYMOUTH ROCKS.

Kan. State Show at Newton, 1909, I won
1st cock, 1st cockl., 1st pen; Wichita Fair,
1909, won every 1st. If you want over
weight birds, white as chalk, deep bay eyes,
yellow legs, low well spread tails and grand
in shape, write. 200 early cockls. and pullets
from \$1.50 up. Fine show birds with scores
from 95 to 97 peints.

CHARLES C. FAIR.

Blue Ribbon Farm. Sharon, Kan.



About Buying a Boar.

The Nebraska Farmer gives to prospective boar buyers some good advice which can be easily followed by Kansas farmers in-as-much as breeders never before through their sales offered such a choice lot of individuals. That paper says no farmer should be content to use a grade or scrub boar. The number of farmers who do use this kind of a sire in their swine herd is diminishing from year to year, we street glad to say. However, many farmirs who use pure bred sires are satisfied with a rather inferior animal, occause such can be secured at a price considerably lower than is demanded for the better individuals. Among the hogs, pure breds have become so common and so many of them have fallen into poor hands that it is necessary to use a good deal of discrimination in intelecting breeding animals.

There is a well recognized class of hogs known among breeders as pure bred scrubs, and these the swine grower should avoid with as much emphasis as the genuine scrub. In fact the pure bred scrub is apt to do more harm in a herd than the scrub because the purity of breeding of the former makes him more prepotent. The really good hogs are not so plentiful as the number recorded in the herd books would indicate, and when breeders of the really good sorts ask a somewhat lengthy price for boars the farmer buyer should not make too wry a face. At any rate, he should buy the best he can afford, not thiowing a matter of five or ten deliars to deter him from getting something good.

farmers in these days what constitutes a good hog; most of them are thoroughly aware of the proper conformation. They know that excellence includes a head characteristic of the breed, a stout well crested neck, smooth but well developed shoulders, broad well fleshed back and loin, well sprung ribs, large heart girth, deep straight sides carrying out the same width at the belly as at the back, broad deep hams, strong legs and ankles with upright feet and good action. We say these are the things which constitute excellence in a boar, but be he ever so perfect in all these respects and have not the power of transmitting them to his offspring, he is a failure as a breeding animal. Prepotency is therefore a prime requisite in a herd boar.

One of the chief indications of prepotency in a boar is masculinity. year." The speaker called attention. This quality is shown by the develop- to the fact that young cattle could

ment of a masculine head, short well crested neck, and general masculine appearance. If while at some distance from the animal you cannot tell by a glance whether the animal is a male or female there is too little masculinity for a good breeding hog. Most farmers who produce pork hogs for the market do not have pure bred sows. It is of all the more importance then that such sows should be mated to a prepotent boar, that the offspring may not only have the desired characters which make them good feeders and good sellers, but shall also be uniform, which is of great importance from a feeding and marketing standpoint.

We cannot urge too strongly that farmers who contemplate purchasing a boar this season do so at once while breeders have a full lot to select from. The early buyer always gets the best, or at least has an opportunity to get the best. Early buying, too, gives time to get the boar accustomed to his new surroundings before the breeding season opens.

The most satisfactory method of buying a boar, or breeding animals of any kind for that matter, is to pay a visit to the breeder's herd and make a personal selection. Not only is this the most satisfactory method to the buyer, but to the seller also. Before visiting breeders, however, it is well to write to a goodly number and learn what each has to offer. If it is impossible to make a personal selection of the herd boar, then write to a number of reliable breeders and tell them what you want. In nine cases out of ten this will result in securing as good a hog as if selected personally, for reliable breeders are very careful with their mail orders.

Silage in Hog Ration. Before the Iowa Breeders' associa-

tion a speaker said:

"Silage has a great value as a succulent crop for hogs. A large part of the nutriment is contained in the juice and four pounds of silage a day along with a little oil meal will winter a brood sow and bring her through in good shape. An average corn field will yield about 12 tons per acre and if it is saved in a silo the leaves and stems will be fully as valuable, if not more so, than the corn if it is husked out and placed in the crib. Keeping ensilage is simply the same as the canning process and you have your corn in nice sweet condition to use any time during the year." The speaker called attention

be made to gain when carried through the winter on ensilage alone, a feat that could not be accomplished by timothy hay or even by feeding dry corn fodder. The tendency of all young animals is to get heavier every day and when they get lighter they are actually starving to death, and there is never any profit in letting a growing animal go back. The use of ensilage will prevent this, because it means the supplying of the cheapest food that is found on the farms of Iowa, a food that not only furnishes materials for maintenance, but also nutrients that will cause an increase of flesh and fat.

Grades at the Fairs.

For some years KANSAS FARMER has thought that the fair associations should provide classes for grade animals. The lists however are now so burdened with classes that it seems quite out of the question to expect a greater number. The Dakota Farmer has an article on the necessity of such classes and says:

"Probably not one man in 50 is fitted by nature, training or equipment for a breeder of pure bred live stock. Every farmer however is, or should be, equipped to make the best use of pure bred sires.

use of pure bred sires.

Improvement is utterly impossible without their use and no farmer should be content to raise stock year after year that does not show improvement. It is true that there are many who do not know the real value of a pure bred sire who would at once possess one were their real value brought to their observation. The average farmer does not wish to become a breeder of pure bred stock and but comparatively few are fitted to become such, even if they so desired.

It seems to the writer that in this connection lies a very valuable opening to the breeder, and one which he should eagerly urge upon fair managers and that is a classification for grades in all breeds of stock. Under such classification the breeder would have an opportunity to place an object lesson before the farmer that would necessarily result in great mutual benefit. Let him show a common scrub cow, just such an individual as graces or disgraces the majority of farms; let him show such a cow with a calf at her side from a good pure bred bull. If an object lesson is not possible in this way it is time to quit harping on the value of good blood. It is up to the breeder to show the farmer the result of a single infusion of good blood. In the writer's opin-

ion there is no way so good and so sure to bring the desired results as in a first class exhibit of grades at our fairs. Rest assured that the farmer visitor will be there and will make the most of it. The Dakotas are just at the opening of an era of great uplift in the stock business. Breeders should not forget that the proper way to make a pure bred stock breeder of a man is to get him to using good pure bred sires.

good pure bred sires.

Under ordinary circumstances the farmer visits the stock exhibits at the fairs and of course admires the beautiful animals but he says to his neighbor, "Well, John, they are sure fine, but they are not for us," and passes on to the midway or the race

Breeders! You are missing golden opportunities for yourselves when you do not make the showing of grades a feature of your exhibit.

The man who listened to advice last summer and resisted the temptations of high prices for his pigs and thin sows is surely reaping his reward now. It appears that present conditions are to continue for some time to come and, while it takes nerve to feed high priced corn to hogs, the reward is sure. These conditions serve but to emphasize the fact that money may be made out of hogs but more care and skill in feeding will be demanded in the future. The combination of high priced land and high priced corn demands more careful methods.

Needs Money to Wage War on Hog Cholera.

Live Stock Commissioner Mercer would like to have a special session of the legislature called in order that an appropriation might be made to carry on the work of stamping out hog cholera in this state. Speaking of the matter Mr. Mercer said:

hog cholera in this state. Speaking of the matter Mr. Mercer said:

"If we could get an appropriation of six or seven thousand dollars for the agricultural college or the state university so they could manufacture this hog cholera serum in sufficient quantities we could drive this disease out of Kansas," says Mr. Mercer. "Every year the farmers lose thousands of dollars through the death of their hogs. We know how to stop it but we haven't the funds to start the serum plant on a large enough scale. There is hog cholera in all parts of the state."

A load of sand or gravel in the poultry yard would be a great boon to the chickens, especially where there is no grit in the soil.

and Grow

There's room enough in Texas and Oklahoma for thousands of good, energetic men-farmers and artisans. The best chances will fall to the man who acts quickly and takes advantage of present opportunities.

Land can now be purchased at reasonable prices; in a few short years it will greatly enhance in value.

SEE THE COUNTRY FOR YOURSELF

Special excursions by the M., K. & T. Ry. are run on the first and third Tuesdays of each month, at exceptionally low rates.

Liberal stop-overs are permitted so you can see the country to best ad-

Any agent will give you particulars: or, better still, write me for helpful information, rates or anything you want to know about this land of Possibilities.

> W. S. ST. GEORGE Gereral Passender Adent. ST. LOUIS. MO.





Kendall's **Spavin Cure**

Dr. B. J. Uendall Co., Enosburg Falls, Vt.

Do You Know

Horse Talk? "When you come to the foot of a hill, I you he's right there." (Meaning he will balk.) "He will stand without hitching." (Also balks.)

"He doesn't look very well."
(Going blind.)
"If he ain't windy, you needn't take him."
(Has heaves.)

The ain't windy, you needn't take him.

(Has heaves.)

Did you ever buy a horse that was guaranteed to do any of these things—only to find out later that it was true—TOO true?

How to protect yourself from gyps and tricky traders is fully explained in HORSE SECRETS, an expose of the tricks and dopes used by gyps and peddlers. It also discloses many secretsheretofore carefully guarded and explains the methods of reputable horsemen.

We publish FARM JOURNAL, the foremost

we publish FARM JURNAL, the foremost farm and home monthly in the world, and our offer is—"Horse Secrets" with Farm Journal five full years, only \$1.00.

550,000 subscribers pay in advance to get Farm Journal; every name on our list is a cash subscriber, and most of them have paid five or ten years ahead. We have no rate for one year subscriptions—don't want 'em. The first copy of the paper will show why we have so many friends. And when you have received your last copy the paper will stop.

If you send \$1\$ within 10 days, we will include free (for promptness) "Poor Richard Revived," our splendid new Almanac for 1910.

FARM JOURNAL, 1028 RACE ST., PHILADELPHIA, PA.

Go Southwest THE FARM



The safest corn to grow is the variety which will mature within the normal corn growing season of your locality. This very thing of trying to make a 140-day variety fit into a 100day growing season is responsible for millions of acres of soft corn.

Cattle are now beginning to pas-ture the corn stalks and from this time on there is going to be more or less complaint of losses. Much of the loss of cattle pasturing stalks will be the result of impaction due to the lack of salt and water. It is well to salt the cattle heavily while pasturing stalks and the farmer should see that every animal drinks heartily. The liberal supply of salt will insure lib-eral drinking. Impaction occurs much more often in seasons of early frosts. There are more blades on the stalks of early frosted corn. The blades are drier than other years, too. The cattle eat heartily of the blades and impaction follows unless the animals drink heartily. There is not so much danger of impaction as long as the cattle get plenty of corn from the stalks. When the nubbins are gone and the blades remain plentiful be careful.

The evenings are long now, but the corn husking is on and there will not be much time for reading evenings un-til the corn is out. After supper just now the corn wagons must be unloaded and when that's done it's early to bed so that the teams may be in the field again at day break. But, as opportunity presents, do not fail to begin planning on next season's work. We once knew a man who had a complete schedule of his spring planting operations made and ready for execution as soon as the frost was out of the ground. That man worked to that plan. His only mistake was in not fig-That man worked to that uring on a rainy day now and then. This man was a success as a farmer. His seed was ready when needed and was gotten ready before planting season. His machinery was in perfect order. When he started in the spring things went off with a rush. He pushed his work. The work did not drive him. The plan looked good. Try it.

Every farmer ought to save as many back aches as possible for the hired man, the boys and himself. An implement which will save a lot of very hard work is the farm grain elevator that kind which elevates ear corn, shelled corn, and all small grains. The horse furnishes the power. The use of one of these during corn husking season would make the unloading a snap instead of a job to be dreaded after supper and by lantern light.

The long hours of the farm are disliked by the hired man. While the farmer is boss he can do as he pleases about the hours he works, but he ought to see if he can reduce a 16hour day to 12 hours at least. Is there not a way to plan the work so this can be done? The boys will appreciate the effort. Twelve hours of well planned work will result in greater achours of complishment poorly directed labor. 11 the hired man and the boys knew that 10 or 12 hours was a day maybe they would soldier less and move faster and accomplish as much in 10 hours as in 14 or 16. An extra horse on the plow would help reduce the working day and would be a good investment. Think this over during the winter.

In some sections are to be seen walking plows and the farmer or the hired man or the boys trudging along at a snail's gait from one end of the field to the other. The day of the walking plow is past. It is fit for nothing but plowing the garden patch and laying out the potato rows. The farmer who asks his boys or hired man to follow a walking plow is hope-lessly behind the times. The walking plow does not move fast enough. It will not do work enough. Its use is more time and energy thrown away. The same is true of the walking cultivator. Buy riding implements. Get

an extra horse if necessary. Let the horses move right along and much more work will be accomplished than with walking implements.

The most that books or papers can do for a farmer is to set forth general principles, to unfold and explain the laws of nature under which he must needs operate; to suggest the help that he may have from nature in the growing of his crops, etc. The book or paper can teach the laws and principles, but they cannot apply them. This must, as a rule, be left to the farmer himself. If by book farming you mean doing just what the book says, regardless of conditions, then it is a failure. Get hold of the underlying rejuciples laws. of the underlying principles, laws reasons for doing things, and then use your best judgment in applying them. In that way only will you suc-

The farmer must exercise independent judgment. No man can farm successfully by book or paper. No book or paper can tell him just what to do under every possible condition. Conditions of climate, weather and numerous other things which affect the farm vary so greatly that no one can tell just what should be done under all circumstances without the exercise of independent judgment.

160,000 Acres Trees in Central Kansas. There are now 160,000 acres of planted trees in Central Kansas, where at once time it was thought that trees could not be grown. As the area in which agricultural crops can be profitably grown is steadily extending, so the limit of forest planting and tree culture is widening always. The native timber in Kansas is also on the

In some counties cottonwood was the only tree planted for many years. Then boxelder, honey locust, catalpa, osage orange, Russian mulberry, black walnut and red cedar were tried, and all of them were found suitable over the greater part of the state.

Real Farming Here.

The island of Guernsey, consisting high, rocky cost-line, intersected by ravines and containing a large amount of waste land, supports a population of 41,000,000. Farming is so systematic that besides raising all their own fruit and vegetables and all the forage for their cattle they export many thousand dollars worth of produce annually. Ninety per cent of the vegetables exported are grown under glass. About 30,000 visitors are annually entertained at the island, and estimating the consumption of supplies by them and the inhabitants and the exports, including ing garden produce, poultry, eggs, beef and pork, the land is figured to produce an income of \$4,500,000, or \$387 per acre.

Ninety Day Corn a Success.

Last spring after the June floods had devastated the corn fields along the Marias des Cygnes bottoms, the Commercial Club of Ottawa decided to try, as an experiment, the introduction of the "ninety-day" variety of corn. A supply of this corn was secured by the Commercial Club at \$1.50 a bushel and sold to such farmers as wanted it at \$1.00 a bushel. About forty farmers around Ottawa gave the new corn a trial and reports from these farmers as to the success of the experiment are now beginning to come in.

The general opinion of the farmers seems to be that the ninety-day corn is a big success, and many of them will put it in again next year, in spite of the fact that much of this year's planting was caught by the killing frosts of a week ago. Most of the corn that was planted before the first of July was matured before the frost hit it, and consequently farmers whose earlier planting was all lost in the flood, and who would have had no crop at all but for the Commercial Club's experiment, now have 35 to 50 bushels to the acre of excellent corn.

Retterfarming Book -Just Out A Farmer Can Get It Free

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

Making Hay Alfalfa Fighting Frost Dairying Seed Wheat Silos Corn Crops Cultivation Cotton Crops Stock Feeding Art of Plowing Soil Fertility Boll Weevil Gasolene Engines
Controlling Weeds Adjusting Plows

Hired Help Costs Big Money

Your land is high priced and hired help expensive. There is only one way to make big money—use im-plements that cut down the cost of your crops. Isn't plements 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 paint to cover up poor material. You can see the wear and the defects. The John Deere will be solid, staunch and ready for the bard-Deere will be solid, staunch and ready for the hardest job. Then you begin to know that quality counts.

You can take pride in owning a John Decre



We will send you the 80-page, illustrated book free if you write and ask for

Package No. 13

Mention the package number sure, then you will get exactly the right stuff.

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Write Today for our beautifully illustrated Stews MARVIN SMITH CO.,

70,000 Americans will enter and make their homes in Western Canada this year.
1909 produced another large crop of wheat, oats and barley, in addition to which the cattle exports was an immense item.
Cattle raising, dairying, mixed farming and grain growing in the provinces of Manitoba, Saskatchewan and Alberta.
Adaptable soil, healthful climate, splendid schools and churches, and good railways. For settlers rates, descriptive literature "Last Best West," how to reach the country and other particulars, write to Sup't of immigration, Ottawa, Can., or to the Canadian Government Agent.

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J. S. CRAWFORD, 125 W. 9th St., Kansas City, Mo. (Use address nearest you.)

L. M. PENWELL

Funeral Director and Licensed Em balmer.

Topeka, Kan]

How to keep up the fertility of or-chard lands is a problem which our orchardists are beginning to consider more and more. Not that there is yet a crying need for fertilizers, but it must be apparent to all thinking men that the enormous drain on fertility cannot be continued indefinitely. Fortunately commercial fertilizers are out of our reach on account of high prices. Barnyard manure is no very big item in the orchard districts, but fortunately green manures are within

the reach of all. Organic matter does many things for soils, but the one important thing for us to consider in this connection is that it sets free some of the locked up plant food elements. All our soils contain an abundance of fertility, but it is mostly in forms which are useless

The decay of vegetable matter generates materials which decompose the soil particles, and also promotes various soil activities. All these working together are continually making food elements available. And the family of plants which includes the clovers beans, peas and alfalfa, actually add fertility to the soil.

Value of Manure.

Hoard's Dairyman in a recent issue publishes a table giving the manurial value of different feeds based on greatly reduced and conservative values. It estimates the manure from a ton of corn silage to be worth 43 cents; corn stover, \$1.03; clover hay, \$1.96; timothy, \$1.17; ground corn and cob, \$1.80; ground corn, \$2.24; ground cob, \$1.80; ground corn, \$2.24; ground oats, \$2.60; wheat bran, \$4.74; cottonseed meal, \$8.36; linseed meal, \$8.36; linseed meal, \$8.36; linseed meal, \$6.91; gluten feed, \$3.42; and gluten \$4.90. All this, however, on the assumption that the liquid manure is not permitted to go to waste, or the manure left in piles to leach in the field or in the yard. Inasmuch as it is not possible to save all the liquid portion, and where cattle are kept in large yards not possible to get the manure out to the field as soon as made, it will not be possible to realize these rull values in actual farm operations. We publish them, however, in order that our readers may see the amount of waste that is going see the amount of waste that is going on from year to year through the improper handling of this by-product of the stock farm.

While it is not possible to save all the liquid manure, it is possible where cattle are fed in a yard, to save a large per cent of it by simply keeping the live stock well bedded. The best way to use up wheat straw, or any other roughage of but little feeding value is to use it as bedding and ab-

sorbent.

The way to get the most value out, of manure is, wherever possible, to get it onto the manure spreader and put it on the field as fast as it is made. The field which gives the greatest profit is the one in grass, whether pasture or meadow. The poorest way to handle manure is to throw it out from the stable, where it will take the water from the eaves, leave it out in the yard, where it can absorb all the rains of summer, and then haul it out in the fall, when it can add but little more than humus material to the land.

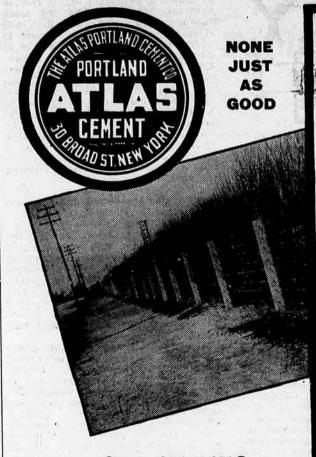
Kansas Farmer the Official Organ.

At the meeting of the Executive Committee of the National Good Roads Association, held in Chicago last week, KANSAS FARMER was designated as the official organ of that great body. The 10th annual meeting and the first one to be held west of the Mississippi will be held in Topeka on Dec. 14, 15 next and several thousand delegates are expected to be present.

Good roads and the suppression of the mud tax is one of the most important subjects before the American people today. Governor Stubbs has appointed delegates from every city and county in Kansas and other Governors report that they have each named from 50 to 100 delegates. Everybody is invited.

Less Feeding in Southern Kansas.

Fewer cattle will be fed in southern Kansas this winter than during any winter for years past, according to the well substantiated opinion of some of the biggest feeders in this section. A number of these feeders have not a single steer in their pens this year, while others have only a instead of the train load they usually handle.



One of the 150 illustrations in our new Cement Book Sent Free

Progressive Farmers Use Concrete

A fence-post made of concrete never rots, or wears out. Any farmer can make concrete fence-posts indoors during the dull Winter season, and have them ready for use when Spring comes.

Our FREE Cement Book

"Concrete Construction About the Home and on the Farm" tells all about concrete. It gives directions for making and handling this economical and everlasting building material in over a hundred ways. It tells how to mix concrete in proper proportion, and includes specifications, sectional drawings, and photographs of the smaller constructions that can be made by any farmer himself. There are 168 pages

ATLAS Portland Cement CONCRETE

In making concrete it is important that ATLAS Portland Cement be used. ATLAS is the standard American Brand of cement. It was bought by the U. S. Government for the Panama Canal. There is only one quality of ATLAS manufactured—the best that can be made and the same for everybody.

Ask your dealer for ATLAS. If he cannot supply you, write to

The ATLAS Portland CEMENT Co. 30 Broad Street

Dept. 107

Daily Productive Capacity, over 50,000 barrels the largest in the World.

Farmers Must Awaken to the Necessity of Cleaned and Graded Seed.

We want to do all we can toward hastening the day when every farmer will consider it as necessary to prepare the seed for the soil as to prepare the soil for the seed. It is well within the actual figure to say that farmers of many states lose a million dollars a year through neglecting to properly clean and grade the seed and grain planted. And this loss gets larger as land values increase.

We are never going to have any more land than we have today. The value of our farm land goes up and up each year. Taxes increase. It is a case of every farmer being confronted by the absolute necessity of getting more and more in the way of crops from each acre. And what is logically the first step in this direction is a greater care in seed selection. Keeping up fertility, thorough tillage, assiduous cultivation, what will these avail if the seed is poor and if we plant partly weeds when we want grass or grain?

Give back to the land the best that it gives you, the plump seeds heavy with vitality, discarding the shrivelled seeds with the weed seeds. Take this matter up earnestly enough to investigate now and you will not drop it until you have a fanning mill and seed

grader.

You will see at once the injury you do yourself, the needless loss you sustain, each year by failing to clean and grade the seed sown or planted. For instance, consider your hay crop. You sow the grass seed mixed with weeds. You get weedy hay and feed most of it if not all of it to your own stock. The weed seeds go through the animal and remain in the manure. Then you spread that manure over any or every field, the result is more and

more weeds, every year, everywhere.

Then again, the seed of the grass or grain crops you are raising runs down, gets poorer and poorer every year, natually as it becomes more and more choked with weeds. Stop it. There is no compromise. There is no excuse for a compromise. You can get a fanning mill that will clean the weeds from any grain or grass seed you grow and one that will grade the seed to the point where you are certain of a full stand if other conditions are made right.

A good fanning mill will soon clean a farm of weeds, enables a man to soon breed up his crops in point of production and quality, and gives him a reputation in the community for hav-ing seed or grain that is worth his price in case he chooses to sell.

Good Seed Grain.

The importance of selecting good seed grain cannot be emphasized too strongly or too often. By selecting good seed it is not necessarily meant that the farmer should send to some seed house a long distance away from home each year for seeds with a fancy price attached to them. If a new variety is wanted, a reliable seed house would be a good place to get it. The average farmer, however, cannot afford to buy these fancy priced seeds each year and must resort to some more practical method of securing his seed

It would be a very poor crop that would not contain 15 or 20 per cent of good grain. If a large amount of this were run through a good fanning mill and about 10 per cent of the best grain taken out for seed, a good grade of grain would be secured. The cost of this separaton would perhaps not exceed 4 or 5 cents per bushel for the

seed saved. That means that the seed would only cost that much above market price for the grain, which is very The grade of the grain from which the seed is taken will not be lowered and can be sold at the same price as before. If this method of selecting the best grain for seed were followed for a few years on every western farm, the average yield would soon show material increase.

Give the Horse a Chance to Breathe. A farmer, plowing with three horses hitched abreast, noticed that the middle horse became tired and exhausted long perore either or his mates. Asthe animal was the equal in every way of the other two, he was puzzled as to the cause of this holse's not being able to stand the same amount of work. He finally observed, however, that as they drew along, the three horses held their noses close together, with the result that the middle horse was compelled to breathe the expired air from its fellows. The farmer then procured a long "jockey" stick, which he fastened with straps to the bits of the outside horses. The device worked perfectly; for, given his rightful share of good, fresh air, the middle horse was able to do the same amount of work, and with no greater fatigue than his fellows.

First Corn Article Ever Written.

So far as is known the following was the first article ever written on corn and how to grow it. It is printed here for its historical value. It shows how English was written centuries ago. The author of the article was Mr. Thomas Harriot, one of the pioneer colonists of Virginia. It was published

in book form in London in 1588 and in

Frankfort in 1590. "Pagatour a kinde of graine so called by the inhabitants; the same in the West Indies is called Mayse. Englishmen call it Guinney wheate or Turkie wheate, according to the names of the countries from which the like hath been brought. The graine is about the bignesse of our ordinary English peaze, and not much different in forme and shape, but of divers colors; some white, some red, some yellow, and some blew. All of them yeelde a very white sweet flowre; being used according to his kind it maketh a very goode bread. We made of the same in the country some mault, whereof was brued as good ale as was to be desired. So likewise by the helpe of nops thereof may be made as good Beere.

"It is a graine of marvellous greate increase; of a thousand, fifteene hundred and some two thousand folde. There are three sortes, of which two are ripe in eleum or twelve weeks at the most; sometimes in ten after they are set, and are then in height of stalke about six or seven foote. The othere sorte is ripe in fourteene, and is about ten foote high; of the stalkes some beare foure heads, some three, some one or two; eury head containing fiue, six or seuen hundred graines within a few more or less.

"Of these graines besides bread the inhabitants make victuall eytheer by parching them or by seething them whole till they be broken, or by boyling the floure with watter into a

The planting of corn:

"Then there setting or sowing is after this manner. First for their corne, beginning in one corner of the plot, with a pecker they make a whole, wherein they put four grains with what care that they touch not one another (about an inch asunder), and couer them with moulde again, and so through the whole plot, making such wholes and using them after such manner; but with this regard that they bee made in rankes, euery ranke differing from other half a fadome or a yarde, and the holes also in euery rank as much. By this means there is a yarde of square ground between euery hole; where according to disretion here and there, they set as many Beanes and Peaze, in different places also.

"The ground being set according to the rate by us experimented, an English Acre conteining fourtie perches in length and foure in breadth, do the yeeld in croppe of corne, beanes and peaze at leaste two hundred -London bushelles; when as in England fourtle bushelles of wheate yeeled out of such an Acre is thought to be much."

POULTRY

Charcoal is one of the best blood purifiers that can be given to fowls and is a preventive of disease.

If you burn wood there is generally enough charcoal in the ashes to supply a good sized flock of chickens.

If you don't burn wood, just some ear corn in the oven and thoroughly char and it will provide both food and

Twenty-five cents per pound for turkeys, eighteen cents for chickens and fifteen cents for ducks and geese is what the householder in Topeka had to pay for the above named delicacies for his Thanksgiving dinner. Those who raised the fowls made a hand-some profit. Were you among the

This kind of weather is favorable to egg-laying. If your hens are not laying these mild days, there must be something radically wrong with them or their surroundings. It behooves you to investigate and see what the trouble is, for if they do not lay now while it is warm and dry, how can you expect them to lay when it gets cold and wet.

If you expect eggs this winter you must see to it that the poultry house has plenty of windows so as to admit the sunlight. It not only warms up the house and the chickens but is a good tonic for the fowls. With plenty of sunlight and lots of leaves and litter on the floor the fowls will manage to keep themselves warm and comfortable and when they are in such condition they will shell out the eggs.

There may be several causes why There may be several causes why your hens are not laying. Maybe they are infested with lice. This is a very frequent cause of non-laying. Maybe they don't get sufficient green food or animal food; either cause may prevent them from laying. Maybe they don't get enough exercise. Keep investigating till you find out the cause of the non-supply of eggs and if you find that and apply the remedy you find that and apply the remedy your trouble will be over.

At one of the principal meat markets of oTpeka, we observed that the quality of the chickens that they were selling at eighteen cents per pound was very poor. The chickens seem to have been half starved for they were very lean and scrawney. It would have paid the owners big to have fed them more liberally and if you purpose selling any kind of poultry for the Christmas trade, feed them all they will possibly eat till the time of killing and you will be paid for the feed a hundred fold in the weight of the fowls besides making them look the fowls besides making them look much more palatable than lean, lanky

When rats get into a poultry house they become a great nuisance. They generally come from the barn or corn cribs. One farmer's method of ridding his premises of rats and mice is as follows: If you sprinkle sulfur on our floor and through the corn as you gather it, there will not be a rat or a mouse to bother you. I have done this for years and have never been troubled with rats or mice. I have some old corn in my crib at present and not a rat or a mouse can be found. In stacking hay or oats, sprinkle on the ground and a little through each load and my word for it, rats or mice can't stay there. A pound of sulfur will be sufficient to preserve a large barn of corn, and is good for stock and will not hurt the corn or bread.

Grain Mixtures for Laying Hens.

The poultry department of the Maryland Experiment Station has recently compiled some interesting data relating to the question of feeding laying hens. That institution made a study of the methods employed by successful poultrymen in the state, and as a result of that study a few of the best grain and mash mixtures are given. The following is method

Mash Mixture.
100 lbs. bran.
50 lbs. linseed meal.
50 lbs. corn meal.
50 lbs. middlings.
50 lbs. beef scraps.
2 lbs. charcoal.
2 lbs. salt. Grain Mixture. 100 lgs. cr. corn. 100 lbs. wheat. 100 lbs. oats.

For the morning feed each pen of forty fowls receives two quarts of the grain mixture well scattered in the litter. Between 8 and 9 o'clock from to five pounds of cabbage is three given to every forty fowls. At noon the grain mixture is repeated the same as in the morning. This constituted all the feeding that is done by hand. The dry mash mixture, grit and shell are kept in hoppers to which the fowls have free access at all times. This method of feeding has proven very satisfactory both as to egg production and general health of the fowls.

The following is method No. 2: Grain.
Wheat screenings.
Corn.

Wheat screenings.

2 bushels bran.
2 peck beef scraps.
4 teaspoons of ginger and black pepper mixed to every bushel of mash.

In the morning the fowls receive a feed of wheat screenings well scattered in the litter, and alternating mornings cabbage and ear corn are hung up in the pen. A liberal feed of shelled corn is given at night. The dry mash mixture, beef scraps, grit and shell are kept in hoppers to which the fowls have free access at all times.

The following is method No 3: Grain Mixture.
100 lbs. wheat.
100 lbs. corn.
100 lbs. barley.
100 lbs. oats.
100 lbs. buckwheat.
100 lbs. Kafir corn. Mash Mixture.
100 lbs. model egg
mash.
100 lbs. wheat bran.
200 lbs. beef scraps,
charcoal and salt.

The hens on this farm are kept in The nens on this farm are kept in flocks of 1,000 and both grain and mash is hopper fed. The fowls are always well supplied with grit, shell and charcoal. The green food is made by sprouting oats and allowing them to grow until they resemble a thick mat of green grass; this is kept before them most of the time. During the molting season linseed and cottonseed meals are added to the mash, sunflower seed is also liberally fed.

The following is method No. 4: Grain Mixture. bushel corn. bushel wheat,

Mash Mixture.
200 lbs. bran.
100 lbs. middlings.
100 lbs. gluten meal.
100 lbs. linseed meal.
100 lbs. beef scraps.
100 lbs. oat meal
when available).

The morning feed is the grain mixture scattered in the litter, about one quart to twenty fowls. At 9:30 mangels are given as a green food. The evening feed is given at 3:30 and consists of grain the same as in the morning. The mash mixture, grit, shell, charcoal and bone are kept in hoppers to which the fowls have free access at all times.

The following is method No. 5: Mash Mixture.
100 lbs bran.
100 lbs. corn meal.
100 lbs. beef scrap.
8 lbs. charcoal. Grain Mixture. 20 lbs. wheat. 40 lbs. corn. 10 lbs. oats.

With this system of feeding laying hens it is the plan to give half as much more of the grain mixture in the morning as at night. The amount of grain fed is regulated by the quantity of dry mash consumed, the aim tity of dry mash consumed, the aim being to feed twice as much grain as mash. The grain is fed in the litter

Kansas

or scattered broadcast in the runs in favorable weather. The dry mash mixture, grit, oyster shells and cracked bone are fed in hoppers to which the fowls have free access at all times. During the winter months they are fed about 2 per cent more corn and 2 per cent less of wheat. For green food they are fed on alterdays, beets, cut clover hay or alfalfa; allowing about two pounds of beets and one pound of clover or al-falfa to every 100 hens. Beginning in August, 5 per cent of oil meal is added to the daily ration for the purpose of encouraging and hastening the molt.

Shall I Use Incubators and Brooders or Hens for Hatching and Raising Chicks.

Taking the practical side of the poultry business, the biggest profit comes to those who raise their chickens in the country—in the villages, suburban town and on the farms. Nearly all of the incubator and brooder buyers live outside the big cities and they raise chickens to sell to the city folks and they make money by doing it. by doing it.

It has not been so very many years

since eggs were selling in the spring throughout all the west central states, for 10 cents a dozen, and in the extreme eastern and western sections of the United States they were down to 20 and 25 cents. Quite a change though in late years, especially so the last two years. I don't know of the market price of eggs at Lincoln being below 20 cents during this time. Chickens have been so scarce and the price so high that I could not have enjoyed many chicken dinners had I not made broilers out of some of my chicks hatched for exhibits and in my experiments.

These good prices have come to stay. In every part of the entire country, poultry raising, for eggs and market, can be carried on successfully. It is not much work to raise a profitable bunch of chickens if you have good incubators and brooders. The work, drudgery and disappointment comes from raising in the old way with hens or with cheap, unreliable machines. It is true, some care and patience is needed. There is only one way you can get money without having to do something for it, and that is to have it left to by a rich relative. People who are in the poultry business find the work of hatching and raising chicks, and in gathering the eggs, sending them to market, etc., very pleasant. Lots of people who, on account of their health, can't do hard work, find that the outdoor life of the poultry raiser just suits them.

The only way to raise chickens in large numbers in a short space of time and have them at the right time to get the biggest prices for them is to use incubators and brooders. By use of the hen for hatching and brooding, enough chickens can not be raised in a season to make it pay. Many of my customers tell me that they would rather take care of 100 chicks in a brooder than to care for one old hen and her brood. You can set as many eggs in a medium sized incubator as you can put under ten sitting hens. With the machines you have absolute control at all times. No lice to fight. No danger of eggs being broken or chilled during incubation. Eggs and chicks perfectly safe at all times. No work at all compared with the work that ten fussy old hens would cause you.

Reader, if you want to raise chickens, show chickens or market chick-ens, either for pleasure or profit, you will be better satisfied if you use in-cubators and brooders. During a During a year's time I get letters from thousands of poultry raisers, who tell me how they raise their chickens and the methods they have found the best. If I didn't know from my own experience that artificial hatching and brooding gives the best satisfaction, the letters I get would soon make me know it.—P. M. Wickstrum, Lincoln, Nob.

Hens and Incubators. In a recent bulletin of the Oregon Experiment Station at Corvallis Prof. James Dryden gives the result of certain incubator experiments. He notes the fact that the frequent re-

newal of the flock is one of the first essentials of profitable poultry keeping. It has been proven that to get a good egg yield the stock of laying hens should be renewed at least once every two years. To keep the flock

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longer than that will usually mean that the egg yield at average prices of eggs and poultry feed will not be profitable In renewing the flock, however, the object will be defeated unless the health and vigor of the old flock be transmitted to the new. Failure in this respect will very soon manifest itself because of the rapidity with which one generation of fowls follows another. Susceptibility to diseases, decrease in egg yield, decrease in size of fowl, lessened fertility and hatchibility of the eggs are the usual symptoms of deterioration in the flock. The failure of many poultry enterprises can be traced to a loss of constitutional vigor in the stock.

Artificial incubation in recent years

has assumed large proportions. Large numbers of incubators and brooders are purchased in every community, entaining in the aggregate a large investment of capital. It is admitted that there are great losses in the artificial incubation of eggs and brooding of chicks, and many explanations are given as to the cause. The complaint is that the chicks either fail to hatch, or, hatching, they fail to live. Why the embryo should live through the incubation period and die before hatching is a problem that bother the incubator operator more probably than any other. It is a keen disappointment to the incubator user to find after the eggs apparently have progressed satisfactorily up to the time of hatching that 25 per cent of them, more or less, have failed to hatch. This means a large loss to the poultryman, and if there were no other problem involved in incubation than that of the chicks dying in the shell it would warrant extended investigation.

SUMMARY OF EXPERIMENTS.

1. From 879 eggs set, incubators hatched 533 chicks, or 60.6 per cent.
2. From 279 eggs, hens hatched 219 chicks, or 78.8 per cent.
3. Eliminating eggs broken in nests, the hens hatched 88.2 per cent

of eggs set.

4. The incubators hatched 78.5 per cent of "fertile" eggs, and the hens hatched 96.5 per cent.

5. Eggs incubated artificially

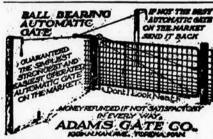


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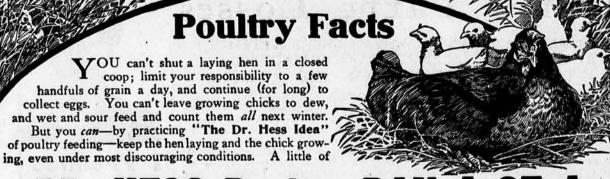
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OU can't shut a laying hen in a closed coop; limit your responsibility to a few handfuls of grain a day, and continue (for long) to collect eggs. You can't leave growing chicks to dew, and wet and sour feed and count them all next winter. But you can-by practicing "The Dr. Hess Idea" of poultry feeding-keep the hen laying and the chick grow-



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fed once a day in soft feed to hens and chickens, works wonders for both. Poultry Pan-a-ce-a is a tonic; it aids digestion and assimilation, so that the hen gets the greatest benefit from her feed. It goes far toward restoring natural conditions to the shut-up fowl and thus—feeling natural and being well nourished—she lays abundance of eggs. In the same way, by aiding digestion, it helps the chick and all other fowls receiving it. It also cures Gapes, Cholera, Roup, etc. Poultry Pan-a-ce-a gives vitality to resist disease and, where consistently given, adds immensely to the profits in the poultry business. A penny's worth feeds 30 fowls one day. Sold on a written guarantee.

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tested out 22.7 per cent as infertile, while those incubated by hens tested out 11.8 per cent.

6. The incubators showed 16.6 per cent of chicks "dead in the shell," and the hens 2.8 per cent.

7. Chicks hatched under hens weighed heavier than chicks hatched in incubators.

The mortality of hen-hatched chicks brooded in brooders was 10.8 per cent in four weeks, and of incubator-hatched chicks 33.5 per cent.

9. The mortality in hen-hatched chicks brooded under hens was 2.2 per cent, and of incubator chicks 49.2 per

10. In other tests the mortality was 46.5 per cent for incubator chicks brooded by hens and 58.4 brooded in

11. Hen-hatched chicks made greater gain in weight than incubator chicks, whether brooded by hens or brooders

12. There was an increase in number of chicks hatched of 32.6 per cent by using moisture in incubators.

13. Both a medium and a maximum amount of moisture gave better results than no moisture.

14. Climatic conditions humidity have apparently no effects on hatching in the case of non-moisture incubators.

15. In the case of moisture ma-chines less moisture will be required in a moist climate than in a dry one. 16. The wet-bulb thermometer may

be used to advantage as an indicator of the proper degree of humidity in the incubator.

17. An average wet-bulb temperature of 87.6 gave 32.6 per cent better hatches than one of 84.5, and slightly better than one of 91. 18. The average loss in weight of

eggs incubated under hens in a dry nest was 14.87 per cent in 18 days. 19. Eggs in non-moisture incuba-tors lost 16.64 per cent of their weight, in medium moisture incubators 12.76

and in maximum incubators 10.8 per cent. 20. The chicks from the moisture machines were heavier than from the dry machines, but it has not yet been demonstrated what relation moisture

chick. 21. The lack of moisture does not alone explain the great mortality in incubator chicks, but it is responsible for a large percentage of the losses

in incubation has to vitality in the

in hatching. 22 Chemical tests showed the presence of oil on egg shells. There was a very small quantity on fresh eggs and in incubator eggs, but a reltaively large amount on hen-hatched eggs. The function of this oil or fat, whatever it may be, has not been determined.



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Daily Farm Losses

THREE KANSANS VIEWS---FARMERS ATTEMPT TOO MUCH---NOT ENOUGH GOOD MACHINERY ---TOO LITTLE LIVE STOCK THE REASONS

The greatest daily losses on the farm in this part of the state are caused by the farmers undertaking more than they can do, or do at the proper time. In many instances the farmers are compelled to let the first utting of alfalfa stand until the sec-ond cutting should have been ready, thus losing one crop and putting up one poor crop where they might have had two good crops. They leave their corn at a time when work is most important in order to harvest their wheat. Then they find it impossible to get their plowing done at the right

They also neglect their live stock during the rush of the season, which results in another heavy loss. I would suggest as a remedy for this that each farmer that finds he has more farm land than he can properly handle, sow part of this land to some kind of

tame grass and pasture it with some kind of live stock. Alfalfa makes an excellent pasture for horses and swine, while Bromus Inermis and Engish blue-grass will do for cattle and sheep. By doing this the farmer would get the profit from the live stock and a better price for what wheat he raised. As quick as the acreage of wheat is known the speculator is able to figure within a very few cents of what the crop will sell for. To reduce the acreage would increase the price. The average farmer pays no attention to this, but goes ahead and puts out all the wheat he can, and then complains that there is no money in wheat. The handling of live stock on too many of our farms is considered a kind of side line. The farmers do not get down to business and use the proper methods of feed-ing and caring for live stock. The feeder of today must feed high priced feed, and in order to make the most profit he must feed a good grade of stock. It has been shown by testing the cows on some of the dairy farms that one-half of the herd was losing money while the other half was makng a good profit. The same thing happens a great many times in the feed lot with both cattle and hogs. One-half the bunch loses what the other half makes. By growing live stock the farmer is able to keep up while the the fertility of the soil, wheat farm is constantly growing If the average farmer would farm

ing his seed and preparing his land, grow better live stock and take better care of it, he would stop the greatest losses on the farms in this part of the state.—E. C. Logan, Beloit, Kan.

fewer acres, be more careful in select-

The greatest loss in handling wheat and oats this year is caused by the farmer who has let his grain stand in shock, waiting to thrash out of the

shock. The black-birds have cleaned the top of the shocks off until they are bare and it certainly will make a big difference in the yield, and the straw will be worthless for feed, too.

The farmer who tries to get all his help by exchanging work with his neighbors is certainly working at a great disadvantage a year like this when it rains so much. Plenty of al-falfa has stood waiting for help that will be very poor hay. And that is the biggest waste on all western farms; they all try to do too much. So many try to farm all they possibly can. If the weather is right they work six days in the week, and if it happens to rain like it has this year they over-work themselves and their horses, and everything has to be neglected so the crop can be half tended. Do less and do it better would certainly stop one great waste on our farms.

The average farmer thinks he has not time to tend a garden and thinks he can buy his living cheaper than he can raise it, and the family is starve i for fresh vegetables. He thinks if ha plows a corner for a garden the rest will come easy for the women and the children, while he could not make money faster than by having a good garden.

The greatest loss on farm machinery comes because the farmer is usually driven with work and doesn't take time to clean up and put away each tool as he is through with it. And this waste comes from trying to do too much. "Do less, and do it better," would be a good motto.—Mrs. J. A. Swenson, Belleville, Kan.

The losses on most western farms are many and varied, and what is A's loss is not always B's, but I believe we can find losses that are common to both A and B, and I shall confine these remarks to a loss that is common to most farmers, and that loss is 'time."

Many farmers lose time by not got. ting out early in the morning. I do not believe in using the lantern much, but a farmer should rise with the sun and when he gets up should move about in a manner that would indicate that he meant business. Men who are not strong physically cannot do this. and, of course, are not able to make good farmers. Good health is the foundation for success in any busi-

After one has done the chores he should do the work that needs to be done the worst, and this work should

be done the worst, and this work should be done as we as he knows how. It is not how much we do, but how well.

We should not take up our neighbors' time in long conversations during week days, or Sundays either for that matter, but should consider that we always have work of our own to do and so has our neighbor. We never do and so has our neighbor. We never need to say that we have nothing to



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FENDRS: I have ground with one set of burrs more than 30,000 bushels of corn with my Mogul No. 1 mill and the burrs are still in good condition.—F. F. Craig, Mt. Carroll, Ill.

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do; there is always work on the farm, plowed twice as much as the man with do not mean that we should never the walking plow, is not tired and worn out when he has completed his I do not mean that we should never leave our farm, for we should. should visit other farms and learn new points. Make preparations to visit, and while you visit do and get all the good you can.

One way we have daily farm losses is not having labor-saving machinery and farm devices. The man who follows a 14-inch walking plow does not feel able to milk five or six cows, turn a cream separator, and feed a few calves and pigs. He needs rest. But the man who rides a gang-plow and drives four good horses, and has day's plowing and chores. The farmer needs labor-saving machinery and so does his wife, that they may accomplish more work and do it easier. We should do today what needs to be dot and not wait till tomorrow.—C. S. Moyer, Nortonville, Kan.

Value of Better Seed Oats.

While it is a little early to write about the seed for next spring, there are so many things to say and think about before seeding time it is well enough to begin figuring now. Poor seed carelessly planted is the direct cause of many loss yields. Can't we decide now—right now—to use better seed of all kinds and plant more carefully?

It is by no means an uncommon thing to find that the oats used for seed purposes were taken directly from the oat bin without any special care or attention being given before they were sown. Every farmer cartainly appreciates the fact that small or light and immature seed can by no means be expected to produce as strong and vigorous plants as will the large, plump grains. This has been so thoroughly demonstrated and requiring as it does so little amount of time to properly prepare the seed that no one can be excused for not giving this matter his most careful

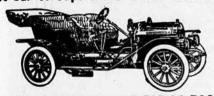
attention. The benefits derived from fanning and grading the seed are indeed very marked. By so doing, the light, chaffy grains, which are much less valuable for seed purposes, will be removed. Likewise, the weed seed may be eliminated. This is an especilly important factor in some localities where weeds such as mustard and others common to our oat crop are so plentiful. Again, not only will the weed seeds and light, inferior seed oats be removed but the large, plump oat grains may be separated from the smaller, lighter ones. This is all important. The



Roan Jessie 2d, owned by H. F. Holmes, Great Bend, Barton County, Kan.



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last couple of seasons have not been favorable for oats, resulting in a large amount of light grains. Especially has this been true with those varieties which are not so well adapted to our conditions. In general, and that the early oats have been we find that the early oats have been much better yielders than have the late oats. In all cases, however, we find even in desirable seasons that all the grains are not equally plump or equally large, but on careful examination a very large part, in fact 30 to 50 per cent, will be found to be either small or not sufficiently filled

In seasons when the oats run light in weight, such as last year when many of them were weighing from 18 to 24 pounds per bushel, it will be found that if the oats are thoroughly fanned and screened, in many instances it will be hard to save more than 15 to 20 per cent. The import than 15 to 20 per cent. The importance of fanning and screening oats cannot be too forcibly impressed. Experiments at the Iowa Experiment Station covering a period of seven years, showing that the large, plump and the large, plump and the large, plump are the large, plump and the large, plump are the large, plump a grains produced 14.6 per cent more than the medium-sized plump grains of the same variety; while the small, plump grains yielded 33.04 per cent less than the large, well-filled ones. Running through the machine once is seldom sufficient, it may be necessary to put them through two or three times before the machine is seldom. three times before the work is thor-oughly done. Many of the elevators throughout the state are co-operating with the farmers in this important work.

Profit in Grading Seed Corn.
The Department of Agriculture has been a tremendous factor in showing the American farmer how to increase the value of his crops. One of the most notable of recent suggestions was officially made by D. N. Barrow. The experiment of persistently using selected corn for seeding shows remarkable results. An increased yield of from three to five bushels per acre was noted the first year and crops improved largely each year thereafter. The results of these experiments are so gratifying that the government urges the use of only the best seed and uniform planting. The only way to insure stands of uniform size and the proper distance apart is to have the seed graded. You can't plant irregularly shaped corn and then drop only the perfect grains. This is the secret of profitable corn raising. The farmer who pays attention to the grading of this cars as well as to the shoice of his corn as well as to the choice of seed is the one who will enjoy the bumper crops of the future.

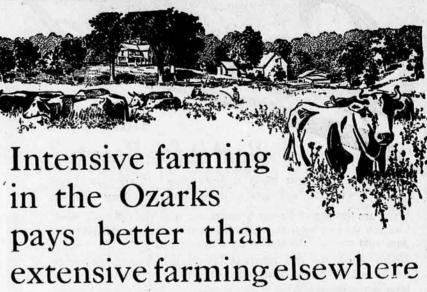
Inspector for Live Stock Board.

Dr. J. H. Burt, of Buffalo. N. Y... has arrived at the Kansas State Agricultural College, and entered unon his duties as inspector for the live stock registry board. which is to see that the law passed by the last legislature relating to the registration of stallions is enforced. Doctor Burt, before accepting the position here, was in the service of the government bureau of animal industry. He was detailed to have charge of the work of investigating and eradicating the foot-ard-mouth disease of cattle in New York State. His Kansas head-quarters will be at Manhattan, which is also the headquarters of the regis-try hoard composed of Director Ed. H. Webster, dean of agriculture at the college; Prof. R. J. Kinzer, head of the animal husbandry department, and Dr. F. S. Schoenleber, state veterinarian.

Demand for Agricultural Expert. An idea of how widely known the work of the Kansas State Agricultural College is. may be gained from a communication recently received from New Zealand by President Waters, says the Industrialist. hoard of education of South Canter-bury, Timaru, New Zealand, have made application to him for a gradnate from the college who could take the position of supervisor of agricultural instruction among high schools and rural schools of that province. The hoard offers a salary of 400 nounds per annum and 40 nounds additional for passage from the United States. Nineteen years ago the province of Queensland, Australia, elected Prof. E. M. Shelton, of the chair of agriculture of this college, president of their newly founded agricultural college.

The Oats Yield.

When the oats yield falls to 30 and 40 bushels per acre on good land it is



Why tackle a big proposition when a small one pays better? Why have big expenses and a big investment when small expenses and a small investment will pay a bigger net profit. Why seek hard work and big responsibilities when easier work and less responsibility will accomplish more?

A small farm in the Ozarks is better money maker than a big one elsewhere.

Such a farm can easily be made to pay \$100 an acre profit, each year. It is simply a matter of proper and intelligent handling. To begin with, land costs only \$5 to \$25 an acre. Don't think this is even prairie land like that in Central Illinois, for it isn't; neither is it low lands, but it is high rolling plateau land.

You would not make a big success with corn and wheat - you can grow both, but other things pay better.

The Ozarks are pre-eminently a dairy, poultry, live stock, fruit and vegetable country.

Grasses, clover, and forage crops grow admirably. There are hardly ten days all Winter when stock can't feed on green pastures. With pure mountain water and the timber shelter, and with all the cheap feeds, butter fat can be produced in the Ozarks cheaper than in any other part of the United States.

Mules can be grown to two years of age at a cost of not over \$30 They sell for \$50 to \$150. Young

mules, while growing and before put to service need very little grain. Hogs can be grown in the Ozarks to weigh 300 pounds without ever having had 3 bushels of corn. The cost will not exceed 21/2 to 3c a lb. The Ozarks is the ideal sheep country of the United States. The sheep are always healthy, free from foot rot, head grubs and stomach worms. A good ewe will give 7 lbs. of wool worth 25c to 30c a pound, a lamb worth \$5 and fertilizer worth \$3 a year-a clear profit of \$9 or \$10 per sheep.

The Ozarks produce more and better poultry than any other section of our country. The conditions are ideal for poultry raising-especially chickens and turkeys. The abundance of cheap feeds which could be grown in the Ozarks makes poultry raising very

With proper care 500 boxes of apples per acre may be gathered from 8 year old trees. They would readily sell for \$2 a box. Small fruits pay from \$50 to \$300 an acre. Vegetables of all kinds succeed and make as high as \$300 an acre.



These are only a few suggestions of what can be done in the Ozarks. If you will get a small farm in the Ozarks, set out an orchard of well selected varieties, lay out a vegetable garden and berry patch, stock the tarm with poultry, cows, pigs, sheep and mules, grow the feeds and grasses you need for them, y' s will realize a greater profit than you possibly could make on a big grain farm elsewhere.

Furthermore you would live in a beautiful country, in healthful surroundings, free from malaria and away from severe cold and snow. You would be within a few hours of three large markets-St. Louis, Kansas City and Memphis and would have advantage of good local markets, schools, churches. etc.

It will be worth your while to look farther into this. We have some attractive books full of plain facts about the Ozarks. They will in terest you. Write for free copies today.

John Sebastian, Passr. Traffic Manager 1510 Frisco Bldg., St. Louis Rock-Island Frisc Times

time to consider the kind of seed used. There are two or three varieties of oats that have been brought to this country, a variety of Swedish seed being one that has yielded about double that of our common seed. The United States department of agriculture is looking into this question of better oats for seed, and a variety grown in China is to be considered in this connection.

At Naperville, Ill., some extensive experiments have been made in growing seed oats of a kind that yields 80 bushels and more per acre, on fairly good corn land. Missouri is also growing a quality of oats that yields as well as this, or better.

Much Said in Little.

The Farm Journal, a paper with a reputation for stating important things briefly—in many cases too briefly—says: "Capital for a successful farmer: Money, 25 per cent, brains, 75 per cent."



DEATH TO HEAVE MeWion's Heave, Cough a Mewion's Distemper Cure Guaranteed or Mency Back. 51.00 per can, at dealers, or Express Paid. 18 Yrs' Note. THE NEW! ON REMEDIT OF

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it for service and economy? You Cannot If you are thinking of buying a motor car read the following offer.

Can you think of a better way to determine what car you want for your own use? This is what we propose:

Either look up the nearest Overland dealer, or write us direct to have him communicate with you.

Make an appointment with him to visit you early some morning with an Overland car. Have him drive you about on your own roads, all around the country and to town and back, over every side road and up every hill you ever expect to traverse. Make the test as hard as you like. Have him give you a sample of what the Overland will do in any emergency under the conditions of your own kind of service.

Then ask the dealers in any other car or cars you have in mind to come out and do the same thing. If they will go through the test, compare their demonstrations with that of the Overland.

Then make your selection, on merit, according to your own judgment. Write or look up your Overland dealer at the earliest possible time. Waiting may mean that you will have to take the car that makes the peorer showing.

MODEL 38

25 Horsepower. Planetary transmission, 2 speeds forward, 1 reverse. Roadster body, Single or double bucket, seats or Tonneau extra. Price \$1000.

MODEL 41

40 Horsepower. Planetary transmission, aspeeds forward, r reverse. Close coupled body, or 5 passenger touring, 4 or 5 passengers. Price \$1400.

MODEL 40

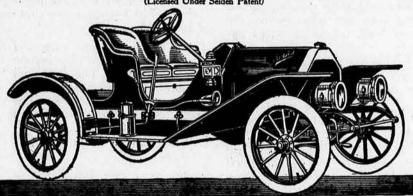
40 Horsepower. Planetary transmission, 2 speeds forward, 1 reverse. Roadster body, Single or double bucket seats extra. Price \$1250.

MODEL 42

40 Horsepower. Sliding gear transmission, 3 speeds forward, 1 reverse. Close coupled body, or 5 passenger touring, 4 or 5 passengers. Price \$1500.

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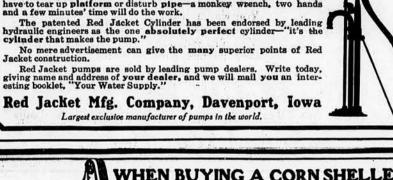
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RITE for this free booklet—it treats of pumps and pump possibilities—it contains a lot of information valuable to you. You will be surprised to learn the difference between ordinary pumps and the up-to-date double acting force pumps sold under our sterling trade

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Red Jacket Mfg. Company, Davenport, Iowa





IVE STOCK



Fifty-Cent Corn and Six-Cent Hogs.

Even when corn is high the relative price for pork frequently makes it the cheapest feed for finishing; 50-cent corn is not expensive feed for six-cent hogs. Up to the last six weeks of feeding, wheat, rye or other cheaper substitutes may be used with grass, but in the ordinary course corn will be the best dependence for the close of the fattening period.—From Coburn's "Swine in America."

Tonic for Sheep.

A mixture of copperas sulfur and salt makes a good tonic for sheep; one which many no doubt will need at this season of the year. It tends to purify the blood and to help the animal in its fight against worms and other troublesome parasites. About six parts of salt to one each of copperas or sulfur makes the right proportion. If this is kept constantly before the sheep, inside the barn, where moisture can not reach it they will eat freely of it, and will undoubtedly be greatly benefitted by it. It seems to tone up their condition generally.

Feeding Beef Cattle.

Beef cattle should be marketed when in prime condition and not finished for show animals says Drovers Jour-nal. Extreme finish s expensive and often reduces the profits of feeding operations and should not be at-tempted in commercial fattening for the general market. Yet, the last 100 pounds up to a certain point is the cheapest beef put on the animal. The trained feeder knows when it no longer pays to feed. There are many fine points even in feeding beef cattle and that is the reason the scrub feeder so often loses money.

No More Old Time Neighborly Feeling. The feeling of neighborhood friendship does not seem to be as strong as in years gone by. Possibly this is due to the improved facilities for carrying on farm work. It used to be a common thing and a pleasure to "change works" back and forth. It is unfortunate that we do not know more about each other and have stronger friendships in the neighborhood. stronger friendships in the neighborhood. Country neighbors do not visit back and forth as they did in years when neighbors were fewer. City folks are getting a bit more selfish and less friendly as the years pass and country folks are no exception.

Cement Feeding Floors.

Swine growers seem to have pretty generally recognized the necessity of feed floors. The concrete floor is the most easily cleaned and most durable. Any farmer can if he will make such floor. It should be laid upon a deep floor. It should be laid upon a deep foundation or it might be subject to cracking or crumbling at the edges and break where the water and frost get a place into it. The mixture is sometimes so porous that it admits water and when it freezes opens it and hogs and even sparrows and chickens will eat out the lime or cement; but where it is properly toned down with a good foundation there is no trouble about its lasting continuously.

Feeding Range Cattle.

An Illinois feeder a year ago last October bought range steers averaging 730 pounds and he paid \$4 per hundred for them, and he sold them in Chicago a few days ago averaging 1,500 pounds, at \$9 per hundred, and they dressed out 62.2 per cent of live weight. Later on the steers were run in stalk fields and fed some clover hay, and last April a medium corn ration was given. Then the first of September he put them on a full feed of crushed corn and oats and dry fodder for roughness and blue-grass pasture. He said he fatted them on less corn than in all his previous experience. The whole lot 18 head brought a little over \$135 per head, or \$2,352.70 in all. This was profitable cattle feeding.

Examining Sick Animals.

First, take the temperature of the animal by placing a fever ther-

mometer into the rectum allowing it to remain there from three to five minutes. The normal temperature of a cow is 101 degrees (Fahrenheit). The

cow is 101 degrees (Fahrenheit). The normal temperature of a horse is 100. degrees; sheep, 101 degrees.
Second, take the pulse of the animal, which can be found at the angle of the lower jaw bone. The normal heats of a cow's pulse are from 40, to 50 per minute, and that of a horse from 33 to 40 per minute.

Third, count the respiration of the animal, or number of times it breathes, by watching the sides of flanks, or by pressing the ear to the side. The normal respiration of the cow is from

normal respiration of the cow is from 15 to 20 per minute, and that of a horse from 12 to 15 per minute while resting. If the temperature, pulse or respirations are found to be higher or faster than above described, you will know that the animal is ailing.

Bred the Spots Off.

It may not be generally known but the fact remains the same that the Poland Chinas in the early 70's was a breed of spotted hogs. The present color of Polands was the result of breeding to Tom Corwin 2d, a black hog with white points. He copied the color of the Berkshire so closely that some people intimated that there had been an introduction of Berkshire blood, but this has been positively denied and the purety of his breeding vindicated by the best of evidence. But there is no doubt that the breeding from Tom Corwin's blood is what knocked the spots off the Poland Chinas. There was a great contest at the time and breeders were Corwin and anti-Corwin, but the Corwins were winners, as he was a distinct improvement over the previous Poland China breeding. As some have said, he was the salvation of the breed not only in color, but in his great quality and stylish, well-built form. His career was an epoch in Poland China history.

What to Think of in Swine Husbandry. Some of the things that the farmer anxious to produce pork cheaply will do well to think about are set out by Farm, Stock and Home:

Pasture crops for the spring, summer and fall.

Production of cheap feeds for winter How to fence the most pasture with the least number of rods of fence.

Putting up fences that will last. Arranging pastures so as to make

Arranging pastures so as to make labor easy.

Easy but effectual methods of feeding and watering.

Cheap but suitable protection for hogs in the pasture,

Inexpensive, lasting and convenient hog buildings.

Means of avoiding loss from lice, worms and disease

worms and disease. How to raise the per cent of yield in

pigs for each sow kept.

In general, how to reduce the cost for feed and labor.

Silage-Fed Beef Cattle.

Indiana and Ohio set the pace for feeding corn silage to beef cattle. The stimulus given to this kind of feeding has greatly increased the number of silos in this state, and a greater number will be put in next season than in any previous year. Farmers find that as all kinds of live stock can be fed corn silage profitably, and such feeding saves the 40 per cent of the corn crop fodder which goes to waste in the field. The Breeder's Gazette of Chicago says:

'Indiana feeders who have demonstrated to their own satisfaction that silage is valuable for beef production are expanding their operations this season, and have been liberal buyers at Chicago, Omaha and Kansas City. Southern Michigan will feed an unusually large number of cattle, owing to scarcity of lambs. Illinois has been a heavy purchaser both at Kansas City and Omaha, and Chicago could have sent five good feeding steers into nearby territory where one has been

"Continued high prices have encouraged cattle feeding in sections where, according to confident prophecy, the industry was on the wane."

Why He Likes the Mule.
An Indiana farmer likes the mule because he is the most tireless worker on the farm. He never gets excited on the farm. He never gets excited in a heavy pull. He eats less than a horse, but does more work. He is always as good as cash in the bank. He never falls through a hole in a bridge, and generally keeps out of danger. He is an excellent saddle animal if you know how to saddle him. His feet stand hard roads better than those of a horse. He is more intelligent than a horse. He is never in love, but attends strictly to busiin love, but attends strictly to business all the time. He is never sick but once, and then he dies. But whoever saw a dead mule since the war? He never stops to fight flies as a horse does, because his hide is tougher. He is just as gentle as a horse if he has not been spoiled in breaking. His age cuts little figure in a sale; nobody cares much how old a mule is. He will bring from \$150 to \$250 when he is full grown if he is big and smooth and strong.

Winn's Experience With Alfalfa.
Frank D. Winn, Randolph, Mo., breeder of Poland Chinas and one of the successful exhibitors, recently stated that the best way of feeding lightly in the winter time was to alfalfa in the winter time was to throw the hay to the hogs. Usually the last cutting would cure quite green looking, the hogs and pigs would eat this up clean, not leave a stem, relishing it and seemed to get great good out of it. That he found in running alfalfa through a cutting box and mixing it with a swill composed of a mixture of shorts and corn that the little pigs would not eat it readily, they seemed to want to separate the alfalfa from the mixture and spit it to out. This would not occur with the old hogs, like it did with the growing pigs, and he felt inasmuch as they did not relish it like they did when thrown to them in the hay form and the world was a much less that he the work was so much less, that he believed it as an advantage to feed the alfalfa in the original hay condi-tion instead of preparing it for a mix-ture in ground feed. He valued it very much as a feed for brood sows.

Feeding Value of Soy-Beans for Sheep. The Wisconsin Experiment Station has tested the value of soy-bean seed for fattening lambs. In one experi-ment two lots of 10 lambs each were fed the same roughage. One lot received shelled corn and whole soy-beans in equal proportions, while the other received the same quantities of shelled corn and whole oats. The average corn and whole oats. The average are the same look large at a period of gain of each lamb during a period of twelve weeks was 16.3 pounds when soy-beans constituted a part of the ration and but 13.7 pounds when oats were used. A pound of gain was produced on 6.11 pounds of grain and 8.62 pounds of roughage were required on the oats ration.

In another experiment the same rations were fed for 12 weeks to two lots of nine lambs each. The lot receiving the soy-bean ration gained 119 pounds in weight and produced 95.1 pounds of wool, against 71 pounds increase in weight and a production of 81.3 pounds of wool for the lot receiving the oat ration. The second lot also consumed more feed per pound. lot also consumed more feed per pound

Top Dressing for Alfalfa.

A light top-dressing of manure after sowing, or, in case of fall sowing, any time during the winter, helps to conserve moisture as well as to give the growing plants some nitro-genous food. Applying a top-dressing of stable manure at least every second or third winter is certain to prove profitable. If it contains coarse straw or other litter, this should be raked and hauled off later, but before the alfalfa grows too high, especially if the hay is intended for the city market. Many successful growers in Kansas, who claim to cut from five to seven tons of alfalfa hay per acre in a season apply a top-dressing of ma-nure every winter. The highest yields reported from eastern states are where this practice is followed. Some experiment station men believe that where this is not done the crop will after eight or ten years tend to impoverish the land instead of further improving it.—From Cohurn's "The Book on Alfalfa."

Movement of Water in Soils.

Movements of water in soils are two: They first a downward move-ment, occasioned by the force of gravity, tends to rid the soil of superfluous water by drainage and while necessary in humid climates it is the occasion of some loss of soluble plant food. In the arid regions, without irrigation, this movement may be dis-

The second or capillary movement is caused by the physical force of surface tension or capillarity, where each drop attracts and draws to itself other drops in the zone of its influence. It is the force which causes oil to rise in the wick, or water to run over the edge of a basin through a wet towel. Practically this movement is unwards in soils because of a wet towel. Practically this movement is upwards in soils because of the attraction of the water which is being transpired by plants or dispersed in the air by evaporation. Water is constantly drawn upward to replace that which has gone off in vapor. Capillarity is most active when the soil is moist and on a perfectly dry surface, rains will often run off without wetting the soil to any great without wetting the soil to any great

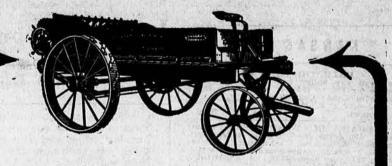
Fodder as a Silage.

Frequently one hears the comlaint that the hard work incident to filling the silo far outbalances the superiority of ensilage over dry fodder. They claim that the dry fodder is good enough and that although the cattle do not eat all of it they eat that which contains the most nourishment. It is a readily conceded fact that there will be waste in connection with dry fodder even in its best form. The Indiana Experiment Station has shown that this waste varies from 20 to 35 per cent. The same authority tells us that cattle will consume all of the silage if it is not fed in excessive quantities. Further than this, sive quantities. Further than this, the silage goes to them in the shape that provides a succulent feed most nearly supplementing the condition of pasture. It is generally accepted that the dairy cow does best when upon fresh grass. Granted that this is the case the more nearly you can reproduce fresh grass conditions the better will be your returns and the more profitable dairying will be. After all, when you come to figure the ter all, when you come to figure the work of shocking the corn, drawing it to the shredder, putting the grain in the crib and the shredded fodder in the mow, there is little difference between the work necessary for filling the silo and getting the dry feed ready for feeding.

There is another point to be taken into consideration and that is the fact that the grain in the silage is all ready for feeding without grinding. If the grain is to be fed in connec-tion with the shredded fodder, it will be necessary to grind or chop it at least. This work is saved by the

"The object of good farming is not primarily to make money, but to make a home, and develop character in the children who are to carry on the business after their parents have been laid in their last resting place. Therefore, the life of the farmer and his wife who fail to educate their children properly is a failure, no mat-ter how many acres of land they may own, or how much money they have in the bank."

The farmer who has brought himself to the point of introducing al-falfa upon his land should be extremely careful in the selection of seed. In the first place it is important that he should sow seed produced in about the same latitude as his farm and from a region of about the same rainfall, thus keeping in a line of acclimation, and with habits and habitat, as it were, of what he is seeking to raise. Next, he should not sow seed raised under irrigation if he is in a non-irrigating region. Michigan farmer, for example, should sow seed grown as near to his lati-tude as possible, say from Wisconsin, Minnesota or the Dakotas, or not south of Nebraska or Kansas. It is questionable at present, whether it is wise or profitable to attempt raising alfalfa seed in the more humid districts of the eastern and southern parts of the United States. It may be economy to leave the raising of seed to those regions with the least summer rainfall, keeping always in mind the securing of seed grown under conditions nearly like those to which the seed is to be introduced.— From Coburn's "The Book of Alfalfa."



Barnyard Manure is the ONE PERFECT FERTILI

BARNYARD manure contains all the elements of plant food. Every ton of stable manure is worth from \$2.00 to \$4.00 or more, based on the commercial value of its fertilizing content. But, based on the increased crop yield, it is worth much more—just how much depends upon how you care for it and spread it over your land.

Get fall value—not half value—out of the manure. There is only one way. Spread it with a machine which pulverizes all of it, and spreads it uniformly, and as you want it, broadcast over the land or in

Your farm will maintain its own fertility if you give it a chance. You don't need patent fertilizer which only contains a few of the necessary plant elements. Save the manure and spread it with an

I. H. C. Spreader

You make the wisest possible investment when you purchase a Kemp 20th Century, a Cloverleaf or a Corn King spreader.

These machines differ in many features of construction and operation, but they are all right-working, and that is the essential point. all avoid the waste of manure, greatly reduce the time and labor of handling, and rob manure spreading of its disagreeable features.

You may have a large farm; you may have a small farm. No matter what the size, you will find an I. H. C. spreader to suit your requirements.

> Join the ranks of Soil-Builders. It will pay you big money.

Call on the International local agent—see him about a spreader for your own use. He will cheerfully give you catalogues and complete information; or, if you prefer, write us for further information.





Meat and Food

Chopper

"Enterprise" Meat and Food Choppers with a revolving steel knife against a perform steel enting plate without tearing or crush Easily cleaned. Practically unbreakable as will last for years.

The No. 5 "Enterprise" Chopper costs only \$1.78; No. 10, shown in cut, \$2.50. They are standard family size, and not only save half the work at butchering time, but are useful in the kitchen every day in the year.

Made in 45 sizes and styles for Hand, Steam and Electric Power. We also make cheaper Food Choppers, but recommend the above for the reasons given. Illustrated catalog free. Sold at Hardware and General Stores, etc.



and Lard

Press

Sausage Two machines in one, Well made and does its work quickly and surely. Cylinder is bored true and plate fits accurately. Pressure cannot cause meat to rise above the plate. The Patented Corrie gated spout prevents air from entering casing, ensuring perfect filling and preservation of sausage.

Machine can be changed into a Lard **Press** in a minute's time. Can also be used as a Fruit Press.

Your dealer will be able to supply you with the "Enterprise" Sausage Stuffer and Lard Press.



Bone, Shell and Corn Mill

The "Enterprise" Bone, Shell and Corn Mill is a good all-round mill for farmers, poultrymen, etc. and for compactness, strength and durability is unexcelled. Handy for grinding poultry food and making bone meal fertilizer. Mill shown in cut \$8.50, weight 60 lbs., grinds 1½ bu. corn per hour. Look for the name "Enterprise" on the machine you buy. Grind up dry bones, oyster and other shells, corn, etc., for your hens and watch results.

Other famous "Enterprise" household specialties are: Coffee Mills; Raisin Seeders; Fruit, Wine and Jelly Presses; Cherry Stoners; Cold Handle Sad Irons, Etc., Etc.

Sold at Hardware and General Stores, etc.

Write for "The Enterprising Housekeeper," a book

Write for "The Enterprising Housekeeper." a book of 200 choice recipes and kipchen helps. Sent for 4c. in stamp THE ENTERPHISE MFQ CO. 11 PA., Dept. 36 Philadelphia, Pa.

KANSAS LAND

HALE, THE LAND MAN.
can sell you Saline and Dickinson county
farms for \$30 to \$95 per acre. Also cheap
farms in Cadde Co., Okie.
T. E. HALE,

BARGAIN IN WASHINGTON county land. 480 acres creek bottom under cultivation, 4 miles from Washington, 1 mile to achool, 2 sets of improvements, good water Price 555 per acre. W. J. GORDON. Washington, Kan.

CO. HIGH SCHOOL PRIVILEGES FREE with our farms. We have farms of sil sizes, improvements to suit. Some we can sell on small cash payment. For a special bargain we offer 120 acres 2 miles frem Altamont, 4-roem heuse, fair harn for 6 head, good water, well fenced, in fine neighborhood, 65 acres farm land, 55 acres pasture. Price for quick sale \$3,800. NEW-HOUSE & SON, Altamont, Kansas.

QUICK BARGAIN.

320 near station on Santa Fe, all fine tillable upland, fair set of improvements, well worth the price, \$40.

120 near church, school and store, \$5,000.

Write or call and see us.

H. L. BWELLE & CO..

528 Commercial St., Emporia, Kan.

MONTGOMERY COUNTY FARMS.

Montgomery county is second in population and 5th in wealth in Kansas. Write
for list of choice farm bargains and prices.

W. J. BROWN & CO..

Kan.

EASTERN KANSAS FARM BARGAIN.
165 a., 3½ miles from town. 75 a. cultivation, 2 a. orchard, balance native grass,
5-room house, good cellar, harn for 8,
horses with loft, other outbuildings, good
water, close to school, R. F. D. and phone.
Farm on main traveled road. Price \$45 per
acre. For particulars write J. C. RAPP,
Osage City, Kansas.

CORN, ALFALFA AND WHEAT LAND.

160 acre farm in Republic, banner corn
and alfælfa county of Kansas, only 1½
miles from Belleville: 6-room house, new
barn and other improvements, nicely located.
35 acres alfalfa, \$12.500. Another 160fair improvements, 1½ miles from Belleville, \$10.800. These are two of the many
choice bargains we have to offer. Write
for information or call on
HALL & CARTENSON,
Bellevillo, Kansas,

Belleville,

SPLENDID FARM IN WILSON Co. Within a few miles of city, 142 acres of first class land, 2 sets of improvements. consisting of frame house and large cattle barn, new brick house and large barn, part in cultivation, balance alfalfa and clover, never falling water. Come and see this farm or write for particulars. Can be bought for less than actual value. Price \$12,500.

W. T. DEWEESE,

Bargain Near Ottawa

120 acres, very fine soil and well improved, natural gas in house, plenty of water, 4 mi. to Ottawa, rural route and telephone. Price \$80 per acre and worth the

MANSFIELD LAND CO.

Good Bargains

Six room house. Eighty acres of valley land, balance good mow land and good pasture and orchard for family use. Price 4,000. And I have several other good 20 acre and 160-acre and so on up to 640 acres and several large ranches. WM. FORBES, Fall River, Kan.

OTTAWA COUNTY FARM BARGAINS.

Nice little 80 acres, 6 miles out, \$2,600 Fine 120 acres, 4 miles out, fair improvements, mostly smooth, black sell at 5,000. A dandy half section, 5 miles ut, 10 miles from Salina, half in cultivation, nearly all could be farmed, black loam, lies fine, plenty good water, 2 windmills, lets of fencing, fair improvements. A bargain at 40 per acre. We have others. Come or write

Bennington, Kansas.

AN IDEAL FARM FOR SALE.

AN IDEAL FARM FUK 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 walnut timber, finest blue grass pastures, affalfa, timothy and clover meadows; finest corn and wheat land; well fenced hay, cattle and horse barn for a large amount of live stock; large silo, water tanks, granary, fine mill, etc. A model stock or grain farm, ready for use. An excellent opportunity. For complete information address K 225, care Kansas Farmes Topeka, Kan.

WICHITA BARGAINS.

WICHITA BARGAINS.

146 acres, well improved, 4½ miles out in the splendid bottoms. All smooth except a little near river. This farm is beautifully conditioned for a farm close to larkedly, 50 acres heavy land, 50 acres orchard 12 acres blue grass, 14 acres alfalfa, 6 acres grapes and some of the best truck land for garden stuff; owner has 1.500 bushels sweet potatoes this year. 7 room house, barn 16 head, hay barn for 50 tons and best of all is the price. Fruit farms here are worth about \$200 and \$300 per acre, and wean buy this one if we move up soon for \$125 per acre. It is so close to the city patches for twice this not far in the months.

I. B. CASE & CO.

Over 103 W. Douglas, Wichita, Kan.

GOOD HOME, CHICKEN AND GARDEN
RANCH.

29 acres in city of Wichita, ½ mile south
of the packing houses and stock yards,
most all set to alfalfa, good timber. Improved with good 8-room house, barn, her
houses, all kinds fruit, near street car line.
This is a fine tract of land, could be plated
into town lots and sold at good prices.
Price \$10,000. This is a bargain. See
THE NELSON REAL ESTATE & IMG. CO.,
187 N. Main St.. Wichits: Kan.

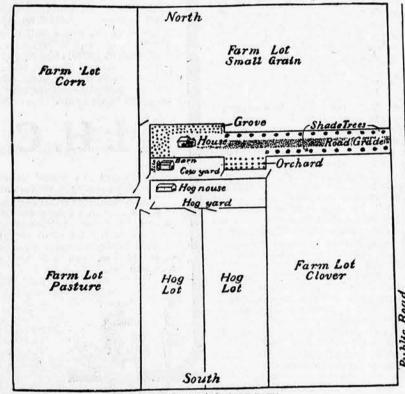
Income From a 40-Acre Farm

This One in Minnesota Has Annual Income \$2,500--Dairy Cows, Hogs and Poultry.

This is the third of the series of articles printed by KANSAS FARMER showing how small tracks of land well farmed are making comfortable livings and some besides for the families living thereon. series has shown, so far, that there is great satisfaction in the small farm well tilled.

There are such farms owned and farmed by KANSAS FARMER FOLKS and we want to hear from those who are farming 20 acres to 80 acres. The articles printed have given an idea of the manner in which you can describe your operations. Give your income account. A plat of the farm like that in this article will be interesting.

For the best showing from a small farm KANSAS FARMER editor will give \$5; for second best \$3 and for the third and fourth best \$1 each. Let us hear from you.



PLAT OF A FORTY-ACRE FARM.

This 40-acre farm is situated two miles from the city of Fairmont, Martin county, Minnesota. There is a very good market for milk.

Surplus eggs, other than those sold and used for hatching, and consumed

and used for hatching, and consumer in family are shipped to grocery firms in St. Paul. Some swine are sold for breeding purposes and the balance for pork on the local market.

I keep from 10 to 12 grade and full blood Holstein cows and heifers, and as many young cattle of the same breed. The young cattle are usually pastured out during the summer. also winter over 4 to 7 full blood Poland China brood sows and figure on raising 30 to 50 pigs each season which are usually sold in the early fall. The flock of fowls consists from 125 to 200 full blood single comb

White Leghorn hens and cockerels. I also winter over 4 to 7 full blood keep a span of light horses to do the work of the farm and a span of driving ponies to haul milk with and do other jobs of driving, taking children to school etc.

The income during the last year was: Hogs \$ 552.7 Milk 975.19 Eggs 330.91 49.72 Poultry
Beef and hides.....
Calves and yearling dairy Poultry 80.36 128.60 heifers One milch cow..... 35.00 One bull Premiums on cattle at county 28.00

fair \$2,255.5

Not all of the cattle that were sold from the farm were produced on the place this year but hogs, poulting eggs, milk and calves were. The in The invoice of personal property is more than even, yes, it is about \$200 higher than it was Jan. 1, 1908. But to be fair it is no more than

right that the other side of the ledger should be shown. But before this done I want to say that the family for the last year has averaged at least 7 persons ho have used freely of milk, cream, eggs, poultry, meat, including one-half of a large beef, two hogs, garden vegetables, including 80 bushels of potatoes used for eating and seed, fruit including apples, strawberries, currants, gooseberries and

pieplant. The place also furnished the wood for the year for the cook stove, used in baking at least 1,400 pounds of flour into bread, and the other necessary articles of food. In fact eatables are produced for family use on this farm that the average farmer produces on a 160-acre farm.

The farm produces all the rough feed for stock, pasturage, etc., but grain feeds are bought except feed for horses which is usually raised on a small grain lot.

The debit side of the ledger stands as follows, amount paid out: For cows\$ 490.00

Hogs and pigs bought..... Corn, oats, shorts, oil meal, bran, buttermilk, salt, 490.00

straw, etc. 787.17 \$1,368.67

This represents the net profit for work besides what was taken from the farm in the shape of eatables for the family living. Under the system of farming which I will outline, the soil of the farm is continually growing better each year.

The farm is composed of a square 40 acres of land part of which is roll-

40 acres of land part of which is rolling and the balance flat. It is thoroughly underdrained with a system of tile drainage. The building plat, barns, yards, etc., are situated near the center of the 40 and fences are so arranged that two hog lots are acces-

sible from hog yard and pen by gates.

The farming land is divided into 4 equal parts of about 7½ acres in a lot which comprise what is known as the "farm crop rotation lots." Each of these lots is connected with the barn vard by lanes with gates at the proper place to admit the stock in any desired lot. A wire fence incloses the entire farm and the cross fences are constructed to make each lot as convenient as possible.

A complete 4-year rotation is followed: Corn, small grain, clover hay, and pasture, using the clover land for pasture, the next season, after giving it a good coat of stable manure the fall and winter after clover hay is taken off. The manure is used en-tire; both liquid and solid portion, taken right from the barn to the

meadow field. Late the next fall when through with the pasture and the moth has laid the egg that produces the cut

KANSAS LAND

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, Kansas.

COWLEY COUNTY FARM.

160 acres, good six reom 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.

Kansas.

BUY A HOME CHEAP.

We are showing lands in the Lost Mountain section of Canada at prices ranging from \$10 to \$20. Low excursion rates twice a month. Write for full infermation.

NELSON BROS., Clyde, Kan.

A 30 DAY BARGAIN.
42 acres, adjoins Baldwin, the home of
Baker University, 409 bearing apple trees,
balance good farm land. \$4.200 if sold
in the next 30 days. Write

WM. M. HOLLIDAY,
Baldwin Kan.

Baldwin.

200 ACRES IN Marshall County, Kan., three-fourths mile from tewn, 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 390 per acre. Good terms. SUMMERFIELD REALTY CO., Summerfield, Kan.

REPUBLIC COUNTY LAND.

25 farms in this county for sale, ranging in prices from \$50 to \$75 per acre. Choice corn, wheat and alfalfa land bargains. Write for information. or call on J. G. HELWICK,

Belleville. Kansas.

Belleville.

Just put on the market in Texas close to the Simmons property, lays fine and a black sandy loam. We will sell the entire tract for \$10 per acre. A fine colonization proposition for someone whe can handle this tract.

this tract.

160 acres, 2 miles from a good town in
McPherson county, Kansaz, well improved,
100 acres under cultivation. Price \$5,500.

Fifteen quarters in Hodgeman county,
fine for a ranch. Price \$7.50 per acre.

CHAS. PETERSON.

18½ N. M. St..

Hutchinson, Kan.

BARGAINS For CASH or TRADE

Of all kinds direct from owners of farms; ranches, mdse., hardware, hotels, livery barns. Send for our book of trades or cash list.

BERSIE REAL ESTATE AGENCY. Eldorado. Kansas.

BUY A CHEAP FARM.

480 acres of good corn land, northwest of Burrton, Kan., 8-room house, barn 30x40, basement 30x40, cow sheds and other buildings, 3 wind pumps, orchard, groves, fenced and cross fenced, all good land; a splendid stock farm, only \$27.50 per acre. 160 acres south of Hutchinson, 3 miles of Darlow, 7-room house, stable, 10 acres alfalfa, 7 acres orchard, near school, \$13,006.

ROSE & SON,

55 Sherman, East, Hutchinson, 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, ig'sted with acetylene gas, bath and toller, 500-barrel cistern, jewer system, R. F. D., telephone, 5½ miles to two railroad towns. Price \$65 per acre. For further particulars write

NEAL A. PICKETT, Arkansás City, Kan. MR. TENANT,

QUIT PAYING RENT!

160 a. located 6 miles east of Independence, 2 miles from street car line, 50 a. in cult, balance in meadow and pasture, two good springs, 6-room house and barn for horses, good school and church just across the road. Only \$35.00. Terms if fesired.

ROSS DEFENBAUGH, Independence, Kan.

BARGAIN.

160 acres, 100 acres in cultivation, 10 acres hog tight, balance grass; timber for wood and posts; 7 room house; barn 20x60; wagon, implement and cattle sheds; corn cribs; well and cistern; nice shade; 6% miles from Climax; school ½ mile; R. F. D. Price \$30 per acre, worth \$40; can carry \$2,500.

G. K. JACKSON LAND CO., Eureka.

BOURBON COUNTY FARM BARGAINS. HOURBON COUNTY FARM BARGAINS.

160 acres, 4 miles north of Fort Scott,
Kan. 65 acres in cultivation. 40 acres
wild and tame meadow. 55 acres pasture,
practically all tillable, good 5 room house,
harn, abundance of water, near school and
F. D., telephone. Small orchard and
grove Price \$50 per acre. We have others.

Write for list.

MURPHY & SIMPSON,
Fort Scott,
Kansas.

AN EXTRA FINE FARM.

240 acres, 1½ miles from shipping station, 5 miles from good town, on R. F. D. and telephones, 140 acres under cultivation, 100 acres in pasture, land in extra fine condition. Large house, large cattle barn, 40x52, large horse barn 40x50, all new. Fine young orchard, 2 acres of timber. Lots and all fenced in best condition. Price \$50 per acre.

T. F. COLLINS,

Harris. Kansas Kansas

Harris. SMITH COUNTY, KANSAS, LAND.

Let me know your wants. Choice bargains and money makers. Make a specialty
of exchanges in land and merchandise
What kind of a proposition have you got?
Let me hear from you.
CARL G. ANDERSON,
Broker.
Kansas.

TWO REPUBLIC COUNTY SNAPS. TWO REPUBLIC COUNTY SNAPS.

800 acres, 3½ miles from Wayne, 9 ml.
county seat, ½ good farm land, balance
pasture, 200 a. cultivated, fair house, 2
good barns, 75 a. alfalfa. 60 a. hog tight,
timber, running water. Price \$45 per acre.
Consider smaller tract near Kansas City,
160 a. 2 ml. Wayne, fair improvements,
timber, running water, some alfalfa. For
other bargains write or see
B. J. GEORGE, Wayne, Kan.

KANSAS LAND

CLAY COUNTY, KANSAS FARMS
are my specialty. Own a farm where good
ihings abound. Call or write for my list before you buy. Tell me what you want. I
can get it for you.

GEO. A. BIGLER, Clay Center, Kan.

800 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.

100 FARMS FOR SALE.

200 acres adjoining Horton, one of the best locations in eastern Kansas. \$80 per acre. This is a real bargain. Write for complete description.

McCORMACK & FRIEND,

Kansas,

A 240 ACRE BARGAIN.

Anderson county, Kansss. 7-room house, telephone, R. F. D., ½ mile from Kincaid, good orchard, abundance of good water. All tillable, all fenced and cross fenced. Price 550 per acre.

Colony. Kansas.

Colony.

FARMERS, BUY LAND WHERE IT PAYS

RETURNS.
640 acres. 11 miles from town in fameus
Cheyenne Valley, perfectly smooth, choice
land. This section will sell for \$20.00 per
acre within 12 months. Get busy if you
want it at \$13.00 per acre. Cash.

W. O. FALLIS,
Kansas.

St. Francis.

ARE YOU LOOKING FOR A HOME?

Ne 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 properly and stocks of goods of any paper published west of Chicago. It reaches 50,000 readers each issue, 85 per cent of whom are farmers. Every one who has any property they wish to advertise will find this journal one of the best advertising mediums published. Advertising rates 2c per word each insertion. Send 75c and we will mail you the Journal for one year, or for 10c in silver or stamps we will send it for two months on trial and stop it at the end of the two months unless you renew your subscription FARM AND BEAL ESTATE JOURNAL.

DOES THIS SUIT YOU?

DOES THIS SUIT YOU?

200 acres, Cherokee Co., Kan., 12 miles west of Joplin, splendid roads; 75 acres in pasture and grass, 5 acres in orchard, yard and stock lots, 80 acres in cultivation; 40 acres sown to grass last spring; hedge and wire-fence; every feot tiliable, no rock or waste land; lays fine; good bearing orchard; good 6-r-om house, cellar, smoke and chicken houses, corn cribs, hog sheds. An ideal home in a good community and a rich country. The price is only \$50 per acre; half cash, balance on iberal terms if desired. The owner has made enough money to retire.

SHARF REALTY CO., Kansas.

KINGMAN COUNTY LANDS

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

Brown Real Estate Co, Kingman, Kan.

Hodgeman County Lands.

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\$4,000 will buy a quarter section of fine smooth land % mile from center of Ness City, all fenced and in cultivation. 50 acres in wheat. Other good corn, alfalfa, and wheat land at \$15 to \$35 per acre. Write for information.

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Five thousand acres, two hundred and fifty in cultivation, ten room house, large tarn, good out buildings, living water. Fenced and cross fenced. \$20 per acre.

APPLING HORTON & MEEK, 123 N. Lawrence Ave., Wichita, Kan.

Will buy 80 acres in Andersen county, Kansas, three miles from Ment Ida, three and one-haif miles from Welda and six miles from Colony. All second bottom land, no overriew. A good 4-room cottage. Will need a little repair. Part down and terms on balance. We have land ranging in price from \$20 to \$60 per acre. Write EBERT C. SIMON, Garnett, Kan.

160 Acres—\$50 Per A.

160 acres well improved. 100 acres in cultivation, 30 acres pasture, balance mow land and timber, ½ mile from school on R, F. D., two good wells, creek runs on land. Price \$50 per acre. Write the owner,

Box 315. Needesha, Kan.

As to Denatured Alcohol.

worm, this sod land is plowed good for the next year's corn crop. This land is thoroughly disked, dragged and worked in the early spring to retain the soil moisture, and later on in May I plant fodder corn for silage, planting in drills north and south, raising about three-fourths to one bushel of good home grown seed corn to the acre. With thorough, shallow culti-vation this fodder corn will yield from 11 to 16 tons of green silage corn to the acre and will help to fill my 100-ton silo and provide that succulent feed needed to keep cows in good flow of milk.

After silage corn is removed the corn ground is either sown to rye or let lay until the next year for the crop of small grain. Rye is the best small grain one can use as a nurse crop for clover seed. Barley is good, flax is good if sown early, wheat will do but oats is the poorest as it takes considerably more moisture in growth and shades the ground worse than the other grains.

Sow small grain early in the spring and just before the last harrowing sow clover and timothy seed. I use 4 quarts of medium red, one quart alsike and one quart timothy to one

Cut grain with a high stubble and keep all stock off of the young clover the first fall and winter, this thick stubble with the young clover's own growth the first year will give it a nice protection the first winter, then the next season two crops of splendid clover can be cut Care is always taken to have the clover cut before the heads commence to turn brown, as at this stage the juices leave the stalk and it turns to woody fibre.

If the season is favorable for rain late in the fall the third crop usually comes on in good condition and gives a good late fall feed. Then begin with the stable, manure again late in the fall and commence the rotation once more.

This system of handling the soil will bring bigger crops than any that I know of. This was a poor year in this part of the state but this 40-acre farm produced 46 loads of clover and timothy hay on one lot; 150 bushels of oats and 7 loads of straw and 2 loads of buckwheat, which was used for chickens to scratch out, on the small grain lot; on the pasture lot was kept never less than 12 head of matured stock and as high as 18 part of the time, all summer. On the corn lot was raised 75 tons of corn, leaf silage.

Besides I secured 90 bushels of fine potatoes and vegetables from the garden. On one of the two 3-acre hog lots 35 bushels of flax and 6 or 7 loads of flax straw was produced.

Besides the four farm lots there is a hog lot of 6 acres divided with a woven wire hog fence in the center, this is used alternately to pasture hogs one year and the other field used for corn, which is seeded to clover at the last cultivation, about June 20. This corn is planted thinly enough so the clover will receive some sun light and it is cut off the last of August at the same time the other silage corn is cut and is put into the silo with the corn from the corn lot. This year one of the hog lots was used for flax instead of corn.

This system of changing the hog pasture each year is a good one as it tends to keep swine more healthy than when confined to a permanent pasture lot year after year. I raised 36 fine full blood Poland China pigs on the grass from one of these acre hog lots, with the assistance of the nurse from the 4 mother sows and a small amount buttermilk and corn. the age of 6 months they weighed better than 125 lbs. each and had cost but little money. Four or five weeks' heavy feeding finished them for the

I want to say to the fathers that a great deal of the success that has come to me must be credited to a good boy who stays by the old home and the farm. I have taken him into partnership with me and each month he gets a regular share of the gross receipts, this arrangement tends to encourage him and keeps him on the farm. I hardly think that farming, no matter how well it is managed will justify the hiring of help at anywhere near as high wages as men in the different line of commerce can pay, but to the young man who will stick to the farm, be steady, honorable and saving, success will surely come.—Lucien A. Sweet in Farm, Stock and Home.

The results of the government's recent exhaustive investigations into the cost and efficiency of denatured alco-hol are rightly satisfactory to those who see in the fuel possibilities of this product a solution to a pressing industrial problem. When Congressman Murdock interested himself in the subject of denatured alcohol he had little reliable data upon which to depend. It was not unnatural, therefore, that his bill which was intended to benefit the farmers and permit anyone to make denatured alcohol should have been seriously defective. There are practically no private stills in the country and the farmers find that they are so seriously handicapped in the cumbersome and needless system of government inspection that they cannot make alcohol profitably, says the Kansas City Journal in a recent editorial.

There is no good reason why all restrictions should not be taken off the manufacture of denatured alcohol. A simple affidavit declaring that the distiller has complied with government requirements in treating his alcohol product should be sufficient. There is no special inducement to the man who does not denature his product. Alcohol made from farm waste is not fit for use as a beverage in any event and the cost of having a government inspector visit every farm still and examine the product before it is sold is so high that it reduces the profits be-low a reasonable limit. The benefit to the farmer of the Murdock bill is wiped out by the failure of the bill to exempt the farmer from inspection.

There is always tremendous waste upon the farms of this country. The farmers destroy vast quantities of un-saleable stuff that could be made into alcohol. Musty grain, rotting pota-toes, cornstalks, straw and, in fact, practically all of the farm waste could be utilized in this way. In the cities also there is much that is now thrown away that could be converted into alcohol for fuel purposes. It is only a matter of time when gasoline will be scarce and the price prohibitive to many everyday users. Alcohol answers all the purposes of gasoline in engines. This has been demonstrated in the government tests. congress should rectify its error and make the manufacture of denatured alcohol free and untrammeled. Here is an industrial field that has been practically un-touched. Denatured alcohol may be-come the fuel of the future and at least it will furnish practically unlimited resources for those who use internal combustion engines.

Small Mules on a Decrease.

While there are many small and undersized mules, the average size is gradually and steadily increasing, due to better care in breeding and to better food and housing when they are young and growing. It studded early in life, no amount of after care and food will remedy the neglect or inattention. While extreme size is unustention. While extreme size is unusual and generally undesirable, good, strong, able-bodied and above medium sized animals are the only kind to raise, those from 15 to 15½ or even 15¾ hands always being in good, paying demand, other qualities being in keeping. Those little 14-hand fellows may do some classes of work and may do some classes of work, and may find buyers in some sections, but why not breed fine, large ones which will sell for twice as much when it takes no longer to bring them to a saleable age than it does the former.

Farms in Alaska.

"The prospects today for successful agriculture in Alaska are infinitely better than they appeared to be 11 years ago, when I began work there," says Professor Georgeson, formerly of Kansas, now representing the United States Department of Agriculture in Alaska, "Alaska will some day become the home of prosperous and successful farmers, but the farmers will probably come from the Scandinavian peninsula and from Finland, because they have been brought up under similar climatic conditions and have been reared in many instances under conditions less favorable to agriculture than Alaska affords. The word agriculture is meant to include the production of anything useful which comes from the soil, not only the growing of grain and the rearing of live stock, but also vegetables, fruit and flowers and dairying."

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WHY NOT BUY LAND of the owner and save from \$5 to \$10 on the acre? Land of all descriptions from \$3.50 per acre unsend for circular and come and see us. G. N. DAVIS & CO., Cimarron, Gray Co., Kan.

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240 acres. 125 in cultivation, balance pasture, good living water, 6-room bouse; price

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Good soil as any in the state \$10 to \$15.
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acre. Partly rough at \$6 to \$8 per acre.
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J. G. COLLINS, Ness City, Kan.

80 ACRES NEAR HALSTEAD, KANSAS, 72 acres now in wheat, excellent al-falfa land, fair improvements, R. F. D., tele-phone, new school and church. Price \$4,500, Write

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

160 acre farm, good improvements, house worth \$4.500; best orchard, 1½ miles from good town, high school. Smooth rich corn and alfalfa land, corn is making 50 and 60 bushels this year. Good terms. Price 594 an acre. Write to W. J. BOSH,

Marion.

NESS COUNTY LAND. 320 acres 10 miles from Ness City, 100 acres in cultivation, 4 room frame house, barn, well and windmill, some good alfaifa land, place is all fenced, land lays good and in good locality. Price \$16.00 per acre; \$2,000 cash, three to five years time on

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SCHUTTE & SHINEY, the Rush county Kan, real estate hustlers; 30 years in the same old place. Good farmers raised from 25 to 47½ bushels of wheat per acre here last season. We can sell this land at from 320 to \$35 per acre. Good improved rauch land, ½ good farm land, at \$15 per acre. Good bottom land not over 5 miles from market at \$25 to \$35 per acre. Well improved and ruaning water, plenty of timber. See us, or wirte us at La Crosse, Kan

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A. E. ROBINSON LAND CO.,

Minneapolis.

Kansas,

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Wheat, oats, corn, alfalfa and hogs. All kinds of fruit and berries do fine. Abund-ance of water. Fine climate. Farmers get-rich here; so will you. Prices \$30 and up Write us, information free. List your stock of merchandise for exchange.

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187 scre farm in Anderson Co., Kan. 100 acres of choice creek bottom land in cultivation, 45 timothy and clover 25 timber, balance pasture, 7-room house, stable 16x24. corn crib, granary, 1 mile to school, rural mail, price \$37.50 per acre.

1860 acres, Anderson county, Kan., 4 miles from Welda and Colony. 290 acres in cultivation, balance meadow and pasture, nice 7-room house, good barn, fine orchard rural mail, telephone, price \$35 per acre This is a splendid stock farm. Let us show them to you.

them to you. SPOHN BROS., Garnett, Kan.

HERE IS THE BIGGEST SNAP OUT. HERE IS THE BIGGEST SNAP OUT.

160 acres. 3'4 miles northeast of Fredonia, Kan. Good 1'5 story farm house with 5 rooms Good barn 24 by 30. Land well fenced with hedge and wire. Two acres orchard. 35 acres in cultivation. 70 lacres pasture. Balance is meadow, part of which is tame grass. Land is well watered by two branches, 3 wells and one cistern. Land slightly rolling and one of the best bargain in Wilson county at \$35 per acre. It is a splendid home and nicely located. Write me about this.

C. R. CANTRALL,

Kansas. Fredonia

EASTERN KANSAS FARM BAPGAINS

160 acres Dickinson county, near Solomon and Abilene, guaranteed perfectly smooth rich land, 7-room house, barn 28 by 48, 82 a wheat, one-third to purchaser, \$12,000 160 a. 17 mil Topeka, 5 mi. town, 40 a clover, sll in cult., good 6-room house, barn 48 by 60, extra fine farm, only \$9,000: 80 a 11 miles Topeka, 75 a. in cult., no waste land, new 5-room house, small barn, spring water, \$5,600. Write for list stating what you want, as we make specialty of selling farms worth the money.

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HOME CIRCLE



How Laddie Paid His Debt.

Little Betsy Baker sat on the porch-steps of her father's house and watched the people passing up and down the village street. It was the 20th of June and her seventh birthday. She held in her arms a big doll which was her mother's birthday present to her; and in her apron pocket was a cunning little purse with several compartments which was her father's gift. Now and then Betsy took it out and shook it, and something inside made a lovely, jingling sound.

Betsy's parents were poor and so the little girl had few toys and seldom any money of her own to spend; therefore, a new curly-haired doll and a purse with fifty cents in it made this seventh birthday of hers a very happy and wonderful occasion.

Presently the rural postman came in sight driving his gray horse hitched to the funny little blue cart. He was on his way to deliver the daily mail to the people out in the country.

The postman was a great friend of Betsy's. He was an old man with twinkling blue eyes and a cherry voice. He came by at this hour every day and Betsy was almost always on the step watching for him. When there were no letters he would wave his hand to her, but when there was mail for the house he would come into the yard and give the letters into her own hands He was always jolly. To-day, as he came up the walk, he sang a funny little rhyme to her which

"Little Betsy Baker—
Take her up and shake her!"
The postman's name was Gerry.

After he had driven on down the road, Betsy heard a great noise at the other end of the street. Then she saw quite a lot of boys running that saw quite a lot of boys running that way, and presently a wagon with a body made of slats came in sight, followed by a policeman and several rough-looking men. Each of these men carried long poles with strong nets attached to them. In the wagon, behind the wooden slats which made behind the wooden slats, which made a sort of cage, were a number of dogs, some yapping and barking, some howling piteously.

Betsy ran down to the gate By and

by a man came along, and she asked him what it all meant.

"The dog-catchers are out today," said he, "and every dog that is not wearing a collar to show that his tax has been paid, will be taken up by these men and carried to a place called the "pound." If not claimed and the tax paid within three days the dogs

are all killed.

This seemed very cruel to Betsy, and she watched them as they came down the street with two bright red spots in her cheeks.

Just as they reached the corner of her yard a beautiful Scotch collie came through the alleyway. He wore no collar, but his lovely, yellow-brown coat glistened in the sunshine.

Immediately the men approached, and, throwing the net over the unsuspecting collie, he was hauled into the wagon and shut up with the other dog prisoners.

"Oh, please, please don't take him!" cried Betsy, running into the street and grabbing the policeman's coat.

"It is a shame to put him in jail for nothing, and to kill him because he hasn't any money to pay his tax!" And big tears rolled down the child's cheeks

The policeman patted her head and

said:
"It can't be helped, little girl. If somebody can raise one dollar and twenty-five cents for him between now and Saturday morning, he can be bailed out of the 'pound' and will belong to the person who pays his tax."
Betsy went slowly back to the

porch steps. All the brightness seemed to have gone suddenly out of the June sunshine.

Presently her cousin Tom came along. Seeing Betsy on the steps, he called out:
"Hello, Betsy!!"

Instead of answering and running

down to the gate to talk as she usually did, Betsy only waved her hand. So her big cousin (Tom as twelve years old) knew that something must be wrong with the little girl.

"What is the matter, Betsy?" he asked, as he sat down by her side.
"Somebody's in jail," announced

Betsy solemnly.

"In jail?" exclaimed Tom.
"Yes, and going to be killed on
Saturday if I can't get a dollar and a
quarter before then," continued she.
Then she told him all about the

cruel dog-catchers and the pretty collie that they had carried off a prisoner. When she had finished her story,

she asked:
"Tom, if I were in jail what would you do?"

'Get you out," promptly answered the boy.

"Then will you help me get that poor collie out? He has no cousin nor anybody, and he cannot speak a word, but looked at me so pitfully!"

And Betsy's eyes filled with tears she put her little birthday purse in Tom's hand and said:
"There is my birthday money, but it isn't even half enough. What shall we do?"

Tom thought a while, then a sudden

idea occurred to him.
"We will make the money!" he cried. "I know a way. We will have a store and sell ice-cream and lemonade to people passing by the gate."

So they began work at once. The hired man helped Tom drag a big wooden box down to the gate to be used as a counter. This was covered with a white cloth. Two Japanese lanterns were hung to the branches of the tree just over the counter.

Tom's mother made a freezer of delicious strawberry ice-cream, and Betsy's mother gave the lemonade and loaned her very best tall glass pitcher. Such fun as they had getting every-

thing ready!

After supper Tom came over, and he and Betsy opened store, both standing smiling behind the counter.

Gerry, the postman was the first to stop. He said he was never so thirsty and bought four glasses of lemonade. When he heard Betsy's story of the dog in the "pound," he bought forty cents' worth of ice-cream and carried it home in a paper box.

Then all the children in the neighborhood came and one or two of the grown people. And they all heard the poor dog's story, and each bought something at the children's store.

By nine o'clock Tom and Betsy were "sold out," and had nearly four dollars. So Betsy came to her house dollars. So Betsy came to her house leading the pretty collie, now released from the "pound," by a string. He was Betsy's dog now for good and all, all, and she named him "Laddie."

A year passed, and Betsy grew to love Laddie very dearly, and the faithful dog followed her everywhere.

She had no brothers nor sisters of her own, so Laddie was her sole companion and greatest friend.

One day she went out to look for wild strawberries on the hillside near where the Wabash Railroad spans a narrow stream by means of a high trestle. Thinking that she might find finer berries on the other side of the stream, she resolved to walk across the trestle. She was about half-way across when she slipped and was caught fast between two ties! In vain she struggled to free herself. In vain she cried for help. Laddie barking and pulling at her dress with his teeth.

Weak from her efforts to extricate herself, she finally fell exhausted upon the track, giving now and then a pite-ous moan!

In the meantime Gerry, the post-man, was returning to the village after delivering his daily mail. Passing along the road under the high trestle his attention was attracted by the dis-tressed barking of a dog. Looking up, he saw at the top of the embankment

Betsy's dog Laddie.
He called to him. The dog would not come, but continued to run back and forth from the trestle to the side of the embankment barking and

whining and gazing constantly toward the track.

Leaving his horse standing in the road, Gerry swiftly climbed the embankment. There, caught fast in the middle of the track, was poor little Betsy Baker!

Far off beyond the bend he heard the rumble of an on-coming train! Swiftly he extricated the now un-conscious child from her perilous sit-uation and ran with her in his arms across the trestle, Laddie, wild with joy, leaped at his heels. Hardly had

he reached the safety of the bank when the fast express dashed past! Gerry drove up to Betsy's father's house with the little girl in his lap and Laddie sitting proudly beside them on the seat.

on the seat Before night all the town knew how Laddie had paid his debt of gratitude to Betsy Baker.—Mary Miner Lewis, in Farm and Fireside.

SOUP RECIPES. SOUP STOCK.

For four pounds of lean beef from shank, allow four quarts of cold ater, two small onions, one small teaspoon mixed whole clover, allspice berries, celery seed and pepper corns, one bay leaf, one cup diced vegetables (turnips carrots, celery and parsley) one table-spoon salt. Cut the meat small, cut the bones. But all except the onions and one-third of meat into the soup kettle and pour cold water. Brown the onions in the beef fat and marrow and fry meat well. Put all in the and fry meat well. Put all in the soup kettle and bring sloly to boil. Simmer closely covered until meat is in rags. Strain throught a cheese cloth into a large bowl When cold remove the fat. Clarify with the white of an egg and shell if desired. This foundation may be used for a great variety of soups.

CREAM OF CORN SOUP.

Remove corn from one can cover

Remove corn from one can, cover with to cups water and simmer one-half hour. Press through a sieve. Scald three cups milk, add one tablespoon butter, and one-half cup cream. Season with salt, pepper and celery salt. Stir until heated. Take from the fire and add the beaten yolk of one egg.

PEA SOUP.

One can peas, one teaspoon sugar, one pint cold water, one pint milk, one slice onion, two tablespoons butter, two tablespoons flour, one teaspoon salt, one-eight teaspoon pepper. Simmer peas, sugar and water twenty minutes. Put through a sieve, re-heat, and thicken with butter and flour cooked together Scald milk with onion, remove onion, and add milk to nee mixture. Season and serve hot pea mixture. Season and serve hot. CREAM OF TOMATO SOUP.

Stew one pint of tomatoes ten minutes, with one slice onion and one bay leaf. Put through a sieve. Heat one quart milk. Cook together one tablespoon butter and one tablespoon flour. Add gradually the hot milk and cook until smooth. Add to the tomato pulp one teaspoon soda-level, one teaspoon sugar. Stir into the milk. Season and serve hot.

Our Many Selves.

The organization of the human mind is fully as complex as the organiza-tion of an army, so various are the moods, so multiform the characters under which each individual may show himself, so hard is it to insure action as a unit, so great is the danger of disruption and dissociation into inharmonious elements.

'Within my earthly temple there's a crowd: There's one of us that's humble, one

that's proud; There's one that's broken-hearted at

And one that, unrepentant, sits and

grins; There's one that loves his neighbor as himself, And one that cares for naught but

fame and pelf. From much corroding care should I

be free, If once I could determine 'which is me.'"

Nervous breakdown is one of the results of not knowing "which is me," or how "I" in a given emergency may act, writes Dr. J. J. Putnam in Good Housekeeping Magazine.

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NUT DAINTIES.

Nuts possess so many excellent food qualities that it is worth while trying some new and dainty ways of preparing them occasionally. Grown people as well as children generally like cakes containing nuts. Following are a few choice and tested recipes:

PEANUT COOKIES. Cream ½ cup butter, add 1 cup sugar, 4 eggs, well-beaten, and ½ cup milk. Sift and mix together 2 cups flour, 1 teaspoonful salt and 4 level teaspoonfuls baking powder. Add 1 tabespoonful lemon juice and 2 cups chopped peanuts. Beat up and drop from a teaspoon in buttered paper or well-greased pans, at least 1 in apart. Place a half peanut on each cake and bake in a moderate oven until light brown. If you do not care for many of these cookies at a time, just take half of all the ingredients called for. Hickory nut cookies can be made in the same way; but if walnuts are used, take a little less butter since walnuts are

CREAM NUT FUDGE. This makes a nice change for chocolate fudge. Take 2 cups granulated sugar and scant ¾ cup milk, bring to the boiling point, and boil until a soft ball can be formed by dropping a little in cold water, then add 1 tablespoonful butter. Remove from the fire and add 1 suppoped. from the fire and add 1 cup chopped nut meats and vanilla to taste. Stir until smooth; then pour into buttered pans to the depth of about 1 inch, and cut into squares.

NUT STUFFED FRUIT. Nut stuffed dates, prunes or raisins are nice and make a wholesome confection for the children. Mix the chopped nuts with "fondant" and add a few drops of flavoring. Remove the stones from dates or prunes and fill the cavity with the nut mixture. The fruit can then be dipped in melted fondant or in sugar.

NUT PUDDING. This is worth trying: Cream ½ cup butter, add ½ cup sugar, 2 eggs, well-beaten, and ¼ cup cold water. Sift 3 teaspoonfuls baking powder with 1½ cups flour and add to the creamed mixture; then add ½ cup nut meats, chopped and dredged with flour. Bake in a moderate oven 1/2 hour. Serve with some nice sauce.
NUT MARGUERITES.

These are nice served with light refreshments: Put in a saucepan 1 cup sugar, 1 tablespoonful water and 1 teaspoonful vinegar. Beat the whites of 2 eggs to a stiff froth, and have ready ½ cup chopped walnuts, almonds or hickory nuts, as preferred. When the sugar syrup makes a hard ball when dropped in cold water, or spins a thread when dropped from a spoon, add the nut meats and 1 teasponful vanilla. Pour this over the whites of eggs and beat until light and foamy and just stiff enough to spread nicely. Drop on oblong crackers and spread. Place in the over a few moments to glaze. A filling for any plain cake can be made in the same manner; and nut and raisins are nice combined for this purpose.

PEANUT JUMBLES. Cream 2 tabespoonfuls butter, add 1 cup sugar and 1 well-beaten egg. Dissolve ½ teaspoonful soda and 1 teaspoonful cream-tartar in 1 tablespoonful milk and add enough flour to make a soft dough Roll out thin on a floured board and cut with a jumble cutter. Brush each cake over with the beaten white of egg and then sprinkle with chopped peanuts. Sprinkle with sugar and bake a delicate brown.

Roup is apt to be prevalent at this time of year and as prevention is much better than a cure, see that the quarters of the chickens are perfectly dry and that no draft can blow on thm in their roosting places.

Cheaper Cuts Have Greater Food Value.

A Colorado Agricultural College bulletin in referring to selection of beef cuts says that the most expensive cuts of meat comes from the parts of the animal where the muscles are little used. These cuts are tender, fine grained and of a good flavor. On the other hand, those parts much used produce tougher cuts, but they are often very juicy and of fine flavor if properly cooked. The tough meat forms more than half of the animal, but is just as nutritious as tender meat. While, in many cases, the ten-der cuts are desirable and preferable for people who have a large income, the cheaper cuts may be used to better advantage if well cooked.

Mitchell County Breeders' Association

J. F. Howard, Secretary,

Nothing but first class animals offered for sale for breeding purposes

SHORTHORN CATTLE.

SHORTHORN CATTLE—50 head registered cattle. Herd headed by Royal Goods 293325, by Select Goods, by Choice Goods. Young bulls ready for service, for sale. MEALL BROS., Cawker City, Kan.

SCOTCH AND SCOTCH TOPPED Shorthorns. 40 head. Herd Headed by Popular Knight, by Gallant Knight. Some choice bull calves of fancy breeding for sale. JOHN STROH, Cawker City, Kan.

ELMVALE STOCK FARM, Shorthorn cattle. Herd headed by the Scotch bull, Highland Laddy 243179 by Brave Knight by Gallant Knight dam Dalsy Bell by Imp. Lord Haddo, Young stock for sale. For information address Frank P. Cooke, Beloit, Kan.

DUKE OF DUNDEE 285852, by Archer 205740, dam by Gallant Knight is at the head of my herd. 6 cows by Rose Duke and some by Scotchman. Inspection invited. CHAS. S. McCLEARY, Beloit,

Kan.

UPLAND HERD OF SHORTHORNS,
Headed by the Scotch Duchess of Gloster bull Dreadnaught. 1 red bull 20
months old out of a Lord Mayor dam
for sale, GEO, W. BEEMIS, Cawker

City, Kan.

LOCUST GROVE SHORTHORNS—
Herd Headed by the pure Scotch bull
Goster's Model 287840. Three Scotch
topped yearling bulls for sale. Also a
few cows with calves at side. ELMER
C. OREITZ, Beloit, Kan.

A YOUNG HERD of up-to-date breed.

O. CREITZ, Beloit, Kan.

A YOUNG HERD of up-to-date breeding. Everything recorded. Our herd buil Alfonso by Magnet has produced us some great caives this season. BRINEY & BRINEY, Beloit, Kan.

BOOKDELL STOOK FARM, Shorthorn cattle. Poland China hogs, Sliver Laced Wyandottes.

Beloit, Kan.

JENNINGS' SHORTHORNS — Some young buils for sale by Senator by Hedgewood. Also a few got by Spartan Viscount. Prices right. 2 miles north of Simpson, Kan. S. G. JENNINGS, Simpson, Kan.

FOR SALE—A few young Shorthorn cows and some young bulls ready for service. Best of breeding. Write for information and prices. VINTON A. PLY-MAT, Bernard, Kan.

HEREFORD CATTLE.

HEREFORD BULL CALVES for sale.
Berkshire boars for sale. Spring farrow.
Will trade 2 er 3 for gilts. Boars by
Commander out of dam by Speculation;
grand dam, Alice Majestic, champion
sow at Kansas City Royal.
J. M. Rodgers, Beloit, Kan.

50 HEREFORD CATTLE comprising the H. B. Woodburg herd. Some famous cows in this herd. 8 young bulls of serviceable age for sale. 4 miles from Tipton, Kan. 8 from Cawker City. JOHN SCHMIDT & SONS, Tipton, Kan.

100 HEAD OF HEREFORDS, The home of Caster 259475, the winner in every big show he was ever in. A few choice young heiters and cows for sale. F. L. BROWN & Co., Sylvan Grove,

ANGUS CATTLE.

ABERDEEN-ANGUS CATTLE — A young but fashionably bred herd. Some fine spring calves to price later. BOY C. BIRT, Beleit, Kan.

ANGUS CATTLE, the feed yard and show yard type. Young bulls for sale this winter. Inspection invited.

HARRY BARNES,

Kap.

Beloit.

PERCHERON HORSES.

REGISTERED PERCHERONS — The home of Vidoque (Imp.) 40403, also the brood mare Risette (Imp.) 51115. Inspection invited. Farm adjoins town.

E. N. WOODBURY,

Cawker City.

Kan.

REGISTERED PERCHERON HORSES

—In stud; Imported Rabelals 42529 by
Cosaque by Theldus, who sired Calipso
and Casino. Visitors welcome. C. J.
JOHNSON, Solomon Rapids, Kan.

THE HOME OF JACQUE W. 41659 by Tiatrey, dam Imported Risette. Inspection of my Percherons invited. RALPH G. McKINNIE, Glen Elder. Kan.

COLEDALE STOCK FARM—The home of three first prize winners at the International. Nothing but the best in this herd. 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 station 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. Priced
right. W. H. SALES, Simpson, Kan.

LEBAN CREEK STOCK FARM—Poland Chinas. 100 spring pigs both sexes, for sale at private treaty. Also a few yearling sows bred for October farrow. 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. LEON CARTER, Asherville, Kan.

ALFALFA STOCK FARM.
The home of the best in Duroc Jerseys. Choice boars, fall sows, in fact, most anything you want.
PEARL H. PAGETT. Beloit, Kan.

HAMPSHIRES.

HAMPSHIRE HOGS.

46 spring pigs, both sexes, for sale.
Write for prices.
A. B. DOYLE,
Rural Route 1, Beloit, Kan.

OHIO IMPROVED CHESTERS.

O. I. C. SWINE tracing to the famous Kerr families and the Big Mary family. Pigs of both sexes for sale. Write T. C. WRENCH, Beloit, Han.

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, KANSAS.

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Endorsed by the Peer Auctioneers of the world. Greatest opportunity ever offered to young men of every station of life at minimum cost. A three month's scientific instruction by mail, which is absolute and positive, by which ambitious young men can learn art and science of conducting a public sale, thereby fitting himself for the rich earnings of from \$15\$ to \$100 per day. Write at once for free catalog explaining thoroughly the possibilities in store for you.

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P. O. Bldg., Independence, Kan.



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wusiness Education

and a money making Business Position,



Box 358 F. Hutchinson, Kan. Largest in Kansas. Students come from fifteen states.

Beautiful Book, containing more than 70 fine specimens of Penwork. FREE to all who wish to improve their Penmanship. Address

THE HAUSAM SCHOOL

Hutchinson, Kan.

DE CLOW'S Fourth Blue Ribbon Sale

OF IMPORTED

PERCHERON AND BEL

Cedar Rapids, Ia., Thursday, Dec. 9



50 HIGH CLASS MARES 50

A top offering from 172 head imported this year, and comprising the finest line of imported Percheron and Belgian Mares in the United States.

PERCHERON & 10 BEGLIAN MARES

will be offered on their merits at this time. They are big, smooth, and good boned. Among them are show mares and fine match teams. All are a good, useful lot of young mares, and they are bred to the

hest of stallions. Do not miss this great and last opportunity of the year to secure money-making brood mares from the largest and best collection of mares imported this year.

The sale will be held at the barns, located on the street-car line between

Cedar Rapids and Marion.

Write for the sale catalog, mentioning Kansas Farmer.

W. L. De CLOW, - GEDAR RAPIDS, IOWA COL. CAREY M. JONES, Auctioneer.

Shorthorns, Percherons





Lancaster, Kan., ednesday, Dec.

In the sale will be 20 cows bred to Moorish Duke, by Imported Royal Pride, and Victor Archer, by Victor. Five Victor Archer bulls, one by Scotchman and two by Moorish Duke, and eleven 2-year-old heifers by Moorish Duke.

15 head Percherons include two 3-year-old stallions, two 2-year-old stallions and a big yearling and one suckling stallion colt. Balance are mares, all ages. The Percheron horses are the property of W. H. Graner.

50 head Poland Chinas-10 tried. Sows bred to Guy's Monarch, On the Watch, Big Chief, etc. Write today for catalog.

H. C. GRANER, LANCASTER, KAN.

JAMES W. SPAKRS, Auct. JESSE JOHNSON, Fieldman

NOTES FIELD

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



PURE BRED STOCK SALES.

Percherons

Feb. 8-9, Lakewood Percherons, H. C.
McWillioms & Son, Sloux City, Iowa.

Feb. 15, Whitewater Falls Percherons st
Wichita, Kan, J. C. Robison, Towanda,
Kan.

Feb. 1, 2, 3, 4—Percherons, Belgians, French Draft, Shires, Clydes, Tratters, at Bloomington, Ill. C. W. Hurt, manager, Arrowsmith, Ill.

Jacks and Jennets.

March 1st and 2d—Monsees & Son, Smithton, Mo.

March 1st and 2d—L. M. Monsees & Son, Smithton, Mo.

Feb. 15—O. P. Dovel, Auburn, Neb.

Shertherns.

Dec. 8—H. C. Graner, Lancaster, Kan.
Feb. 24—Glover & McGlynn, Grandview, Mo.

Holstein-Freisans. eb. 8-10—Henry G. Glissman, Station B, Omaha, at South Omaha, Neb.

Omaha, at South Omaha, Neb.

Poland Chinas.

Dec. 8—H. C. Graner, Lancaster, Kan.
Dec. 11.—H. N. Holdeman, Meade, Kan., at Pratt, Kan.
Dec. 11—H. N. Holdeman, Meade, Kan., sale at Pratt, Kan.
Jan. 7—B. M. Bell, Beattle, Kan.
Jan. 7—B. M. Bell, Beattle, Kan.
Jan. 22.—H. B. Vanhooser bred sow sale.
Eldon, Mo.
Jan. 26.—W. W. Martin, Anthony, Kan.
Jan. 27—F. G. Nies & Son, Goddard, Kan., sale at Clearwater, Kan.
Feb. 12—D. A. Wolfersperger, Lindsay, Kan.
Feb. 15—C. H. Pilcher, Glasco, Kan., at Concordia, Kan.
Feb. 15—C. H. Harter, Westmoreland, Kan.
Feb. 23—G. S. Hamaker, Pawnee City, Neb.
Feb. 25—Chas. O. Parsons, Clearwater, Kan.
Feb. 25—Chas. O. Parsons, Clearwater, Kan.
Feb. 25—Lee Gress, Nelson, Neb., and John Barnard, Angus, Neb., at Nelson, Neb.

Jan. 6, H. E. Fisher, Danville, Kan.
Jan. 11—W. M. Puttman, Tecumseh, Neb.
Jan. 24—W. L. Addy & Son, Parnell, Mo.
Jan. 27—Thompson Bros., Garrison, Kan.
Jan. 31—J. E. Joines, Clyde, Kan.
Feb. 1—Pearl H. Pagett, Beloit, Kan., and
R. G. Sollenbarger, Woodston, Kan. Combination sale at Concordia. Kan.
Feb. 2—E. M. Myers, Burr Oak, Kan.
Feb. 3—Rinehart & Slagie, Smith Center,
Kan.

bination sale at Concordia, Kan.
Feb. 2—E. M. Myers, Burr Oak, Kan.
Feb. 3—Rinehart & Slagle, Smith Center,
Kan.
Feb. 4—W. C. Whitney, Agra. Kan.
Feb. 8—Samuelson Bros., Manhattan, Kan.
Feb. 9—Miner & Cross, Cleburne, Kan.
Feb. 9—Miner & Cross, Guide Rock, Neb.,
at Superior, Neb.
Feb. 10—Samuelson Bros., Blain, Kan.
Feb. 14—R. B. Marshall, Willard, Kan.
Feb. 14—R. B. Marshall, Willard, Kan.
Feb. 18—T. E Goethe, Leonardville, Kan.
Feb. 21—F. T. Fitch, Minneapolis, Kan.
Feb. 23—Pearl H. Pagett, Beloit, Kan.
Feb. 23—H. G. Solienbarger, Woodston,
Kan.

Berkshires, Feb. 15—F. T. Hadachek, Wayne, Kan.

Combination Sales.
ec. 11-18—Enid Fine Stock Show and Sale,
F. S. Kirk, Manager, Enid, Okia.
eb. 16, 17, 18—Mitchell County Breeders'
Association, Beloit, Kan.

Association, Beloit, Kan.

E. S. Myers of Chanute, Kan., makes a change in his advertisement this week and announces four specially fine Shorthorn bull calves for sale. They are bred in the purple and their dams are of the broad backed, heavy milking kind. This is the kind that makes money. These cows are used as dairy cows so that tells the story. Write Mr. Myers about these calves and mention Kansas Farmer.

Mc.Laughlin Bros. of Columbus and Kansas City write: "In the regular Percheron classes at the New York Horse Show, which closed Saturday night, we won two firsts, two seconds, three thirds, one fourth prize and reserve champlonship; in all we won \$650 in prizes. This is more than was won by any other Percheron exhibitor. We only exhibited nine horses and think that this is an extraordinary record." So do we.

Secretary F. A. Ertick of the Southwest Kansas Poultry Association announces that the 6th annual poultry show will be held at Speareville, Kan., this year on December 14-18, and that they have the most liberal premium list yet offered. They offer \$4 for pen, \$1.50 for first in class and \$5 for sweepstakes. Other prizes in proportion, Address the secretary af Dodge City, Kan., until show week.

Enclosed find change of copy for my Shorthorn ad. I wish to thank you for the good results I have had in the four months the one-inch card has run. I have sold at good average prices the following cattle to E. E. Petesite, Ness City, Kan., two cows, one heifer and one bull; to D. O. Cockran, Westmoreland, Kan., one bull and one heifer; Geo. W. Vick, Junction City, Kan., one bull. All these cattle brought good prices and I am well pleased with results. All sold through my ad in Kansas Farmer.—D. H. Forbes & Son, R. D. S. Topeka, Kan.

"Popular Fruit Growing" (just off the press), is the title of the latest book published by the Webb Publishing Company. St. Paul, Minn. It is one of the best works of Professor Samuel B. Green, of the Minnesota Agricultural School, College and Experimental Station. Like all of this author's books, this one is intensely practical. It is so copiously illustrated, and its directions are so painly and teresely given, that with a copy at hand, there need not be an unsuccessful fruit grower, if previously in absolute ignorance of the art and its reculrements. Contains lists of fruits recommended for each state, etc. The Book is substantially bound, contains 300 pages, size 5½x7½ inches. Price, \$1.00.

In a recent letter to Kansas Farmer, Henry C. Glissman, owner of the Rock

Brook herd of Holstein-Frisian cattle, Station B, Omaha, Neb., writes: "One of my best sales was made recently to H. E. Bullock of Glasco, Kan.. who through my ad in your paper bought five head of fine three-year-old heifers and a yearling bull. These were all selected from the three car loads which I brought from New York state last spring, and were strong in breeding and individualty. Among other recent sales was that of a fine yearling bull to Geo. E. Briggs of Belvue, Colo.; a bull calf to J. H. McNeeley of Aron, S. D.; eight cows and a bull to Smith Bros. of Plainview, Neb., and a number of other good ones which went to neighboring states. In a few days I shall ship to A. Michaelson of Clay Center, Kan., two of the finest cows that ever left our farm. One cow, Cora Posie, is eight years old, and has for the past three years given an average of 14,000 pounds of milk per year. I still have on hand about 120 head of all ages, among them some fine bull calves and some young pulls ready for service. My sales during the past season where the best of any since Rock Brook herd was established some 32 years ago."

Rock Brook herd was established some 32 years ago."

The importers and breeders of central Nebraska are very optimisitic over the prospects for a record breaking sale season in the line of draft stallions and mares as the amount of inquiries which are being received by the different dealers would indicate that the supply will be even more limited this year than it was last season and all the reliable importers and breeders were sold up very close early in the spring. Messrs. North & Robinson of Grand Island. Neb., claim they could have made at least 40 more sales of stallions if they had been equipped with the big ones of suitable age to go into heavy breeding. This firm with the big ones of suitable age to go into heavy breeding. This firm have made calculations on being ready for any such emergency that may arise the coming season by importing a great many stallions and mares and have them ready for market early. They claim they can save the purchaser a great deal of money it they can sell them before the season has advanced and a great amount nas been spent on the horses in gettling them in shape to show at their best. Now why wouldn't it be a profitable move for the nurchaser to buy one of these big imported or home bred colts in the rough and put them in proper condition themselves thus saving this extra expense and assisting to stock the farm with registered draft horses at a nominal figure. Any one who wishes to consider this proposition and will send a postal card to Messrs. North and Robinson will receive one of their large illustrated 1910 catalogs free and it will contain a fine line up of Percheron. Beglian and Shire stallions and mares. Any one who can call on them at their mammoth barns at Grand Island, Neb., will be cordially received and if any transactions are made the purchaser is assured of complete protection as the reputation and standing of this firm is gilt edged and as to the quality of their horses, the recent state fairs and horse shows awarded them 59 ribbons, twenty-nine of them firs

Wiley's Big Boned Boars.

W. E. Wiley, Steele City, Neb., announces that he will sell two Poland China herd boars that are worth while. He can not use them any longer in his herd. They are both good and sure breders and of the big boned Nebraska kind. If your herd boar has quit or if you want some new blood in your herd buy one of these Expansion boars, They will be a credit to any man's herd. Get busy as this advertisement will not appear again.

The Highland Herd of Duroc-Jerseys. Frank Elder, owner of the Highland herd of Duroc Jerseys at Green, Kan. writes as follows: "I am selling quite a number of my boars and am getting lots soid three King of Cols. II. pigs to go to J. B. Walker, Lathrop, Mo., Ford & Smeltz, Enterprise, Kan., and J. B. Giltzen, Columbus, Neb., so you see they are moving some. Now the Kansas Farmer is doing its share for me for which please accept my thanks. Your fieldman, Mr. Jesse Johnson, looked over my spring pigs and prenounced them an extra good bunch." The Highland Herd of Duroc-Jerseys.

A Good Seed Grader.

The Chattam Fanning Mill Seeder and Grader is made by the Manson Campbell Co. of Detroit. Mich., and is a marvel of efficiency. It cleans and grades all kinds of seeds or grains, from corn and beans to timothy, affalfa, etc.. is remarkably easy to operate and will give a man a life time of service. As a matter of fact, seeing an unusually liberal offer on this mill is what suggested this article. The manufacturers seem determined that every farmer shall have one or try one at least, because they offer to pay the freight on one in advance to anybody, anywhere and give a free trial of 30 days without asking money down of deposit in advance. Also Mr. Campbell offers to let a buyer have a year in which to pay for it. As this firm sells direct from the factory, it is possible for them to make low prices, and it goes without saying that anything from the Manson Campbell factory is as good as it can be made. They publish a fanning mill book, called Book No. 114, which is an eye opener as 10 No. 114, which is an eye opener as 10

I HAVE THE LARGEST JACKS IN THE WORLD,

world, world and home bred. I have sold over seven hundred Jacks from my farm here and they have sired and are siring the bost mules in the United States. My prices are lewer than any other man on earth for good first-class jacks. Let me show you before you buy.

W. L. DeCLOW.

Cedar Rapids Jack Farm,
Cedar Rapids, Ia.

DUNHAMS' PERCHERONS



Fourth large importation within the year arrives November 23rd. which, added to our present stock, offers intending purchasers the finest collection in America. If you want the best horses, horses with bone quality, size, action and hest breeding stallions or mares; if you want fair and liberal treatisistent with good merohandise, visit Oaklawn. Catalog shows the place and the horses.

W. S., J. B. & B. Dunham, W rne. III.

what money makers these machines are. Their book gives facts and figures which are startling. And they are authentic, coming from the highest sources. The farmer who does not own a fanning 'mill will do well to read this book and get a mighty liberal offer on a machine he cannot afford to be without. Address Manson Campbell Company, Detroit, Mich., and ask for Free Book No. 114. You will come to the fanning mill some day, or be paying some one else for clean and graded seed and grain. Better start now and get the benofit next year. Read the editorial on the farm page in this issue.

Institute Program.

Program of Farmers' Institute, Great Bend, Kan., December 6 and 7:

MONDAY MORNING.

9:30. Placing Exhibits.

10:30. Experiences with disking before plowing or listing, James W. Clarke, James MONDAY AFTERNOON.

1:30. The Live Stock Interest: "Feeding Cattle on High Priced Feeds," Thomas Clayton; "More and Better Hogs," Will Merritt; "Sheep on the Farm," Mat Towers; "The Farm Horse" N. L. Duschesne; "Winter or Summer Feeding."

2:30. "The Summing Up," G. C. Wheeler.

TUESDAY MORNING.

10:30. Pasture and Forage Interest: "Some Alfalfa Problems," E. B. Russell; "Will Clover Succeed in Barton Co.," Robt. Doonan; "Experiences With Grasses," F. C. McKinney.

11:16. "Improving Our Forage Crops,"

H. T. Neilsen.

McKinney.

11:16. "Improving Our Foliage
H. T. Neilsen.

TUESDAY AFTERNOON.

1:00. Business Meeting.

1:30. "Farm Dairying," Prof. Andrew Logan.

2:00. "Poultry for Profit on the Farm,"

Mrs. Henry Harper.

2:30. "Improving the Farm Home," Mrs.

Theo. Hartman.

3:00. "Better Farm Management," G. C.

Wheeler.

The Hendershot Percherons and Jacks.

O. P. Hendershot Hebron, Neb.. who is well and favorably known to Kansas farmers as the Percheron horse and jack man, was visited recently by a Kansas Farmer fieldman. We were invited to drive over to the breeding establishment which is now located on Mr.. Hendershot's fine farm just across the river from Hebron. We went and were glad we went. We were shown 125 Percheron stallions and mares that constituted the finest horse show we ever had the pleasure of looking at. Ten head of the stallions will weigh over 2,000. Big beautiful fellows and sound as a dollar and guaranteed by Mr. Hendershot in his usual highly satisfactory way. The mares many of them right up around the 1,700 mark are the wonder of this Percheron herd. There are 10 match teams among them and several are bred to Casino and all are with foal A few are imported but most of them are American bred. The farmer or breeder who is going to buy Percherons this winter will make a big mistake if he does not go at once to Hebron and investigate this offering of Mr. Hendershots. Mr. Hendershot makes the statement that his barns at the present time contain more good mares, the breedlest, best feed and none and size than any other barn in America. He also makes this statement in the form of an offer to Kansas Farmer readers that if you do not find the best lot of mares and stallions you ever saw in one place before, he will pay your expenses. Mr. Hendershot certainly has an extra large number of high-class Percherons that you should see before buying. Hebron, Neb., is easily reached hygoing to Fairbury. Neb. You can leave there early in the morning returning that evening. Write O. P. Hendershot, Hebron, Neb., for further information. Mention Kansas Farmer when writing.

Mitchell County Breeders' Notes.

Mitchell County Breeders' Notes.

Mitchell county is recognized as one of the fine stock centers of the west. Her breeders' association with over 100 active membors is one of the biggest and most active associations of the kind in the west. During he month of November almost \$10,000 worth of registered Percheron horses have been brought into the county. Many of them show animals and not a single one that is not above the average. During the month of November almost worth of high-class Shorthorn cattle have been purchased by Mitchell county breeders and added to their herds. If there is a better place anywhere for the prospective buyer of breeding animals of any kind the writer does not know where it is. The Mitchell County Breeders' Association is an organization of breeders in that county who expect to stay in the business and was organized for their own protection and the protection advantage of buyers who visit Mitchell county. The associations advertising section is always to be found in Kansas Farmer.

J. T. Schmidtt, Tipton, Kan. was very

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organized for their own protection and the protection advantage of buyers who visit Mitchell county. The associations advertising section is always to be found in Kansas Farmer.

J. T. Schmidtt, Tipton, Kan. was very much in evidence at the J. W. Robison Percheron sale at Towanda, Kan,, recently. He topped the mare sale paying \$1,650 for Delia, a six-year-old mare sired by Lorin and one of the famous Whitewater show mares. He also bought Naxarin, a great two-year-old stallion sired by Casino for which he paid \$1,750 and which was the top price paid for a stallion. Several other valuable mares were purchased by Mr. Schmidtt and brought to his Mitchell county farm. Mr. Schmidtt is one of the wealthy farmers of Mitchell county and one of the successful breeders of Percheron horses and Hereford cattle. At the Mitchell County Fair this season his exhibit was one of he best made and many of the prized blue ribbons were tied on his stock. His Herefords are, many of them, direct descendents of famous dams and sires, Tipton, Kan., is an inland town 10 miles south of Cawker City which is on the Central Branch of the, Missouri Pacific. Mr. Schmidtt & Sons, Tipton, Kan.

One of the great herds of Hereford cattle in the state is the one owned by F. L. Brown & Co. Sylvan Grove, Kan. This herd numbers over 100 head and is headed by Castor 259475 and Armour Cavalier 173405 both herd bulls with reputations and are backed up with ability as producers. Castor was one of the most talked of Herefords last season winning at the International and the American Royal and in fact every place he was shown along with the balance of their show herd he was pronounced by competent judges as was Armour Cavalier, great bulls. Mr. Brown reports a good demand for bulls this season and states that they have being taken earlier this season than usual which is a good thing for both the buyer and seller. The writer has visited this herd and is sure that there are very few herds anywhere in the west that should be placed ahead of it. Remember this

herd when looking for breeding animals. You will find prices right, not cheap but just good honest prices. For information address, F M. Brown & Co., Sylvan Grove,

herd when looking for breeding animals. You will find prices right, not cheap but just good honest prices. For information address, F M. Brown & Cb., Sylvan Grove, Kan.

Frank P. Cooke, proprietor of Elmdale Stock Farm and one of the best known Shorthorn breeders. in Mitchell county at least, attended the Wales-Noftsinger sale at Osborne last week and made an addition to his herd that probably was one of the best he ever made, and he has made a number, Mr. Noffsinger, who is a well known Shorthorn breeder, consigned a 'iew choice buils to Mr. Wale's dispersion sale and the Scotch herd buil, High-land Laddy by Brave Knight by Gallant Knight, dam Daisy Bell by Imp. Lord Haddo was one of the attractions in this consignment. Mr. Cooke secured him at \$200 which he considers a bargain price. Mr. Cooke's herd of Shorthorns is one of the oldest in Mitchell county and is growing stronger every year. Mr. Cooke is a good judge of cattle and has never been known to hesitate in buying animals that he thought would add strength to his herd. It is this spirit that has caused his herd to take rank with the real good herds over the country.

Geo. W. Beemis, proprietor of the Upland herd of Shorthorn cattle, Cawker Clity, Kan, whas a buyer at the Wm. Wales' dispersion sale at Osborne last week. He bought the famous two-year-old cow. Bell of Osborne, which will be a nice addition to his already fine herd. Mr. Bemis is building up one of the good herds in Mitchell county. His herd is small but very choice and is being handled with judgment and is sure to be found close to the top and that very soon.

C. E. McKinnie, of Beloit, was another Shorthorn breeder to attend the Wales' dispersion sale last week. Mr. McKinnie maintained the reputation which Mitchell county breeders have established for themselves of buying the best by buying both of the "Josephine" cows, paying for them \$140 and \$120 respectively, \$140 being the both of the "Josephine" cows, paying for them \$200 control of the complex of the probably the last of January or

K. S. A. C. Band Serenades the Kansas Farmer.

Long custom has made Thanksgiving day the time for a battle royal between the football teams of the Kansas State Agricultural College and Washburn College. Custom also fixes tne place for this battle on the Washburn Athletic grounds and brings a large number of K. S. A. C. students to the capital city to watch it. Last Thursday there were perhaps 1000 representatives of the greatest Agricultural College on earth in Topeka and they were headed by the College band. Preliminary to the game this excellent band "arched to the front of the Kansas Farmer building and gave us a delightful serenade.

That this excellent music by these musicians was appreciated goes without saying but the signifi-cance of the act is of greater import. For 47 years the Kansas Farmer has gone to the homes of these and thousands of other Kansans and in that time its weekly visits have carried words of strength and encouragement to the pioneer; facts and suggestions to the progressive farmer and new ideas to all. It has helped in no small degree, to conquer the wilderness; make of Kansas the wealthiest and most progressive agricultural state in America and create the conditions which made the college possible. It has been the friend of the college always and regards its students friends and, in view of the fact that the score was 40 to 0 in favor of the Agricultural College, we doff our cap to our friends.

The grain fields are being divided into farms, the beef herds are giving place to a more progressive and prosperous appearance incident to general farming and dairying. Creameries are being established where farms are small enough to make them practical. Where this is not the case the shipping station takes care of the product, delivering it at the large creameries in the nearby cities. These industires have made a market for cream at prac tically every railroa, station in the country. The better facilities for handling dairy products, the constant de-mand, the flattering prices for butter and cheese and the need of preserving the fertility of the soil all work together in the interests of this greatest of all the agricultural industries.

Send for Sample of PAGE WOVEN WIRE FENCE ind what Page Fence and the ordinary kind ind what Page Fence means in economy rite at once and both the free sample age Fence and the big Catalog will be so romptly. Address

Page Woven Wire Fence Co.
Beg 276K





We want to give all our readers a bit of good news that proved mighty interesting to the thousands of farmers who attended the Michigan and Illinois State Fairs. At these fairs the American Harrow Company of Detroit, Michigan (well known to farmers of America for over a quarter of a century), exhibited an improved and simplified man-ure spreader that completely captured the are spreader that completely captured the approval of every farmer who examined it. And, best of all, every man was quietly told that in spite of all these great improvements in their spreaders, they were going to be able to make a cut of many dollars in the price of every size. The drop in price is due to improved factory facilities; the development of this factory has been wonderful. It has grown simply because they have turned out machines that are right, have sold direct at small profit over actual cost, and have followed a remarkably liberal pclicy in their dealings. For instance, they give credit to any farmer that a dealer would trust. But to return to the improved Spreader: This is the latest pattern of the "American" Spreader, that has been a leader ever since speaders came into use. This year it is

called the "Detroit-American," the new name adopted by the manufacturers for all their products—Spreaders, Tongueless Dics and Cultivators. The company explains this change of name in their new, large and interesting free book. Some of the big advantages of their improved spreader are these more steel is used than in any other; cylinder or beater is all steel—and so is rake, which also serves as end gate. It has the only direct chain drive used on a spreader—no gears to break or cause needless draft. The feed mechanism is wonderfully simple and effective, and six changes are possible without leaving seat or stopping horses. The roller bottom equipped with force feed is a splendid feature. Altogether, the manufacturers point out 19 improved features of importance, all found on no other spreader. We are sure every one of our readers who considers the purchase of a manure spreader importance, all found on no other spreader. We are sure every one of our readers who considers the purchase of a manure spreader this season would be greatly interested in this company's new book and their cut prices, freight pical. Address a card to American Harrow Co., 1012A. Hastings St., Detroit, Mich., and they will be pleased to send the book and complete price-list.

Something New!

AUTOMATIC EGG BEATER



Built to Last Long A Wonderful Labor Saver Cut One-Fourth

The accompanying cuts only give you a faint idea of this wonderful spiral spring egg beater, cream whip and mayonnaise mixer, the latest and most useful kitchen utensil invented.

How to Get This Egg Beater Free.

Send us the names of five of your friends for a ten weeks' trial sub-scription to Kansas Farmer at 10c each (50 cents in all) and we will send you one of these egg beaters for your trouble.

That is all there is to it! You can get the subscriptions in a few mo-

ments if you will only try. If you wish to make a present to some of your friends what could you get for 10 cents that would equal a 10 weeks' subscription to Kansas Farmer. Address,

CIRCULATION DEPT., KANSAS FARMER,

Topeka,

Kansas.



ABOVE

Shows you the photograph taken of some of our PERCHERON and BELGIAN STALLIONS now in our stables. These are the low-down, heavy-boned, thick-quartered kind with lots o quality. 100 head now in our stables consisting of Percherons, Shires and Belgians. All our horses were selected from the best breeders in the OLD COUNTRY. We invite inspection. Write for our new catalog.

ELLY CO.. WATSON, WOODS BROS. @

Lincoln, Neb.



L. R. Wiley & Sons, Elmdale, Kan. IMPORTERS AND BREEDERS OF

Percherons, French Draft, Shires and Coachers

We have just landed 25 more stallions of the ton kind on our rannch. And just one word with you, Mr. Buyer, if you want a first-class stallion or mare Mr. Buyer, if you want a first-class stallion or mare either Imported or American bred and will come and inspect our horses, if you don't think you have found the best bunch of horses in the state of Kansas and our prices the lowest considering quality, you are getting, we will pay your expenses here and back to your city. All of our horses are bought and personally selected by us and we can save you big money; you to be the judge. Write for our prices and terms before buying elsewhere.

ROBISON'S PERCHERONS



-FOR SALE NOW-

Several good young stallions and mares.

J. C. ROBISON,

Towanda, Kansas

HOLLAND STOCK FARM

Percheron and German Coach Stallions and Mares

100 head as good as grows and the best lot of stallions and mares west of the Mississippi. All in excellent condition and will be sold at exceptionally low prices If you wish quality and finish in imported or American-bred stallion or mare or young registered stock produced from the most select herd of imported mares in America, we will supply you for less money than others. Mares are all acclimated and bred. Come and see for yourself. Don't fail to see our consignment of 10 head of imported Percheron stallions and mares at the Enid Fair and Live Stock Assn.'s sale, Enid, Okla., December 11 to 18. The best Percheron stallions and mares. The best German Coach stallions and mares.

CHAS. HOLLAND, Proprietor.

Springfield, Missouri.



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

J. A. FEE & SONS, STAFFORD, KAN.

B EST IMPORTED PERCHERON, BEL-gian, English Shire, Suffolk Punch and German Coach Stallions. \$800 to \$1,000 your choice. Imported mares, home-bred horses, \$250 to \$6,500. A. LATIMER WILSON, Creston, Iowa.

Frank L. Stream, of Creston, Iowa, is selling young, choice imported Belgian, Percheron, English Shire, Suffolk Punch and German Coach Stallions at \$1,000. Home bred registered draft stallions, \$300 to \$600.

PERCHERON HORSES, HOLSTEIN-FRIE-SIAN CATTLE.

Up-to-date Poland China hogs. H. N. HOLDEMAN, Kansas.



— Headquarters For —
Big Stylish Mammeth Jacks.
Some extra good ones of serviceable age for immediate sale. Prices consistent with quality.

I. T. SUTER

Palmyria, Mo.

ACKS FOR S

WE have at all times a good supply of Jacks from 141/2 to 16 hands high. Buy one this fall and save money. Thirty head to select from All Guaranteed.

PETTY BROS., SEDALIA,

STALLIONS AND JACKS.

One 4 year old Belgian stallion.
One Percheron stallion.
One Standard bred stallion,
One eight-year-old extra good black jack,
mealy points, guaranteed all right and a
good breeder. All these stallions are registered and will be sold at a bargain if
sold soon. Will trade for good land. Come
and see me.

L. H. HEDGES

Chase, Kan.

FAIRVIEW JACK AND JENNET FARM Registered Mammoth Jacks

and Jennets for sale cheap, at all times quality considered. They have big bones, big heads and ears, and breed, big mules. They are Missouri jacks—the best that grow—14½ to 16 hands high. A big lot to select from. Everything guaranteed as represented. Established 1892.

J. C. HUCKSTEP, Proprietor, EOLIA, MO.

75 HEAD JACKS AND JENNETS All ages up to seven years old. 'Guaranteed r ented and priced reasona le. Special Prices for fall trade, Come and see me.

PHIL WALKER

KANSAS

MOLINE, Elk County,

35 Jacks & Jennets 35 Few good Percheron and Saddle Stallions. Jacks 14½ to 16 hands and the very largest that can be found. 40 miles K. C. on U. P. and Santa Fe. Long distance phone.

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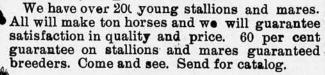
PERCHERON 125 PERCHERON Imported, Home Bred Stallions and Mares 125 Mammoth Jacks and Jennets

My brood mares are breeders. My ton stallions weigh 2,000 lbs. If you want something really first class in a drafter, with extra heavy bone, you will find it at my barns. My prices and guarantee will please you.

O. P. HENDERSHOT, Hebron, Neb.

Draft Stallions and Mares

Imported and Home Bred Registered Percherons, Eelgians and Shires.



NORTH & ROBINSON,' Grand Island, Neb.,

"I predict that present conditions will change men and methods in the cattle business in the near future," said a prominent breeder at a public sale of beef cattle recently, "we hear a great deal about dairying and the money that is to be made in it but I tell you that the average farmer does not like to be tied to the milk pail 14 times a week. Beef cattle are scarce all over the corn belt and, unless the farmers get busy with breeding operations we shall be up again it good and hard and that right soon. The farmer who breeds beef cattle from now on can watch them grow into gold without the drudgery of the milk stool and he would rather do it." What do you think about it?

"Hog sales started out this season with a general average of about \$30 but they have been getting better every day," said a fieldman recently. "Farmers are becoming alive to the "Farmers are becoming alive to the fact that there is a scarcity of hogs, threatened if not actual, and they are buying all over my territory to the extent of raising the general average of pure bred sales at least \$10 per head." The packers have acknowledged, for months past, that their cellars were practically empty and their increasing prices have served to flood the markets with thin and undergrown stuff. This fact together undergrown stuff. This fact together with the ravages of disease in some parts, has served to create a condi-tion that is unusual to say the least. The man with hogs will be the man with the money shortly.

Kansas Live Stock at Internations Kansas breeders will be represented at the International Live Stock Show at Chicago by the following entries of live stock. In Shorthorns, the State Agricultural College, Manhattan; J. F. Stodder, Burden; T. K. Tomson & Sons, Dover. In Aberdeen-Angus, State Agricultural College, Chas. E. Sutton, Lawrence, Parker Parish & Co., Hudson. In Herefords—State Agricultural College. In Galloways—State Agricultural College. In Berkshires C. E. Sutton. The entries show shires, C. E. Sutton. The entries show a total of 1,085 breeding and 174 fat cattle; 559 breeding and 211 fat hogs; 913 breeding and 289 fat sheep besides 676 horses. A grand total of 3,907 head.

Uncle S- Can't Help Kansas. Last week KANSAS FARMER stated that the United States Department of Agriculture would be able to supply hog cholera serum to Kansas farmers through the Kansas Experiment Station. It now appears that Uncle Sam

himself is short and Kansas swine growers can expect no immediate aid. Governor Stubbs recently received a message from Secretary Wilson who said the department had no serum on hand and that it could be made as quickly in Kansas as anywhere else.

quickly in Kansas as anywhere else.

Governor Stubbs immediately got into communication with President Watrs of the State Agricultural College and the result was a second telegram to Secretary Wilson. In this latter telegram the Governor asks that the government department furnish Kansas with an expert in the serum manufacturing line who could be put in charge of the state plant at Manhattan. No reply to this telegram has been received.

"I think this is one of the most im-

"I think this is one of the most important things we have to deal with in Kansas at the present time," said Governor Stubbs recently. "Farmers are losing heavily because of hog cholera and there is an absolute preventive for the disease. The process for making it is slow. We are now at work upon a plant at the State Agricultural College. When it is completed I suppose we will be able to furnish the farmers with all the serum they need but they need but they need but they need it of the server. they need, but they need it at once.

If we can get an expert who has had experience we will get results much quicker and we will be certain of success. That is my reason for asking Secretary Wilson for a man."

The telegram sent by the governor to Secretary Wilson was as follows:

"Your wire stating that you cannot furnish hog cholera serum received. Can you not arrange for Dr. Greeder of your department at Ames, Ia., to supervise the establishment of our hog cholera serum plant at Kansas State Agricultural College, Manhattan? We appreciate very much what you have already done and thank you in advance for favorable consideration of this matter. We regret that the epidemic form of this disease makes this request imperative."

Dry leaves make a very good litter for the hens to scratch in and should be gathered up and preserved in barrels or boxes and used in the poultry house as required.

For Sale 27 Missouri Mammoth jacks and jennets, 3 stallion: and Hereford cattle. J. T. Wetson



COLORADO LAND

COLORADO LAND

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hy Pay Rent

At from \$3.00 to \$5.00 per acre when you can buy land from \$8.00 to \$15.00 per acre that has produced 20 bushels of No. 1 wheat from land that was per acre that has produced 20 bushels of No. 1 wheat from land that was broken the previous winter. Same land has produced 30 bushels of good corn on spring breaking. On old land as much as 50 bushels of corn per acre. Over \$80.00 per acre realized from crop of potatoes on \$\sigma 15.00 land. \$50.00 per acre from crop of broom corn raised on new breaking. Alfalfa successfully raised. I have thousands of acres for sale in Lincoln county, Colorado. Hugo is the county seat. This is the finest body of good agricultural land in America new for sale at low prices. Excellent markets. The best of water at a depth of from 10 to 50 feet.

DO YOU KNOW OF ANY SAFER INVESTMENT

or one that will bring greater returns on the money invested than the lands I offer? For further particulars call on or write

A. S. Mitchell, The Land Man, Colorado Hugo,

Colorado Land Snaps

Colorado is strictly in the limelight. Now is the time to buy for the certain rise in prices. We quote:
4,600 acres, fair ranch improvements; running streams; shallow water for domestic use or irrigation by pumping; level land; excellent soil; at only \$8 per acre; half cash. Butter investigate this if you want a big buy.
3,400 acres, sub-irrigated; water shallow and easily raised to the surface for ditch irrigation, and plenty of it; level land and good soil; only 25 miles from Denyer; \$15 per acre.

3.400 acres, sub-irrigated; water shallow and easily raised to the surface for ditch irrigation, and plenty of it; level land and good soil; only 25 miles from Denver; \$15 per acre.

1.280 acres, nice level land; 2½ miles from main line railroad station; \$8.50 an acre; easy terms. This will sell for double in two years.

320 acres, six miles from Denver, and 160 acres four miles from Denver, at \$15 an acre. Better investigate these.

160 acres, four miles out; level, sandy loam; fenced one side; a great big bargain at \$15 per acre; won't last long.

170-acre improved walley farm, \$6,500.

470-acre improved mountain farm, \$3,000.

Three fruit farms in the justly celebrated Paonia section of Delta county, Colorado; sure crops of the finest fruit raised anywhere in the world; frost does not bother; water rights A-1; fair improvements. One mar owns all these three places; is getting old and wants to sell, and in order to do so makes prices just one-half less than neighboring places are selling for. Eighty acres, 1,000 four-year-old Jonathar apple trees; 700 Elberta peaches, apricots, cherries; besides some old orchard in full bearing; berries, grapes, currants, gooseberries; 18 acres alfalfa; 13 acres grain land; oak grove around house; running spring that supplies kitchen and milkhouse; price, \$10,000; half cash; balance, easy. Eighty acres, 350 Elberta peaches and 125 Jonathan apples, 3 years old; 487 winter variety full-bearing apple orchard; 3 acres alfalfa; price, \$0,000. One hundred and sixty acre ranch, 1,500 apple trees—mostly Jonathans; over one thousand Elberta peaches: various other kinds of fruit and berries, alfalfa, etc.; 2 sets farm improvements; sone live stock and farm implements with this place; price, \$15,000, which is less than \$100 per acre. Unimproved land, under water, in this section is worth \$150 to \$200. If you want a fruit farm investigate these quickly. Write or call on

IRVIN L. RICHARDS

405 QUINCY BUILDING

DENVER, COLO.

320 a. Homesteads Choice farm and ranch land bargains in Washington Co. Write or see Sigel Johnson, Akron, Colo.

Prowers county, Colorado, offers the best opportunities to the homeseeker of moderate means. Write for information and J. B. TRAXLER, LAMAR, COLO.

320 ACRES DEEDED LAND.

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

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

WE SELL THE BEST IRRIGATED LANDS. A\$40 to \$80 an acre up according to improvements, within 2 to 4 miles of shipping point, these prices include perpetual irrigation water rights deeded with the land, good title to both land and water or no sale. For further particulars write or see THE GEO. A WATSON LAND CO., Lamar, (Established 1886) Colo.

ROCKY FORD BARGAIN. 160 acres irrigated farm, 2 miles from Rocky Ford, good soil, easily cultivated, all in crop, 40 acres alfalfa, new 5-room house, complete outbuildings, R. F. D., telephone. Price, \$135 per acre. Good terms. Write or see.

THE ROCKY FORD REALTY CO., 08 S. Main St., Rocky Ford, Colo.

WHERE THE GOOD CROPS GROW.

220 acres, 9 miles northwest of Yuma, all level, good soil and no waste land. Price only \$12.50 per acre. This is only one of the many attractive bargains we have and offer in choice, smooth rich and production farm lands in Yuma county, the Queen of eastern Colorado. Where large crops of corn and small grains grow and where scientific farming is an established success, without irrigation. Come let'us show you or write for information to J. L. Miller & Co., Yuma, Colo.

TWO GREAT LAND BARGAINS IN YUMA COUNTY, COLO.

Famous for corn and wheat yields—320 acres, 2 mi. from Wray, Colo.; fair improvements, 225 a. cultivated, bal. pasture, \$25 per a. 160 a. 5 miles from Vernon, Colo., 80 a. culaivated. Sell or trade, at \$20 per acre.

Other attractive bargains in choice farms and tracts of land, ranches, etc. Write for information concerning opportunities fer investment, where the country's greatest yields of wheat are recorded.

YUMA COUNTY REAL ESTATE CO., Wray,

IRRIGATED LANDS in the famous South Platte Valley of Colorado. Fine 166 under the old ditch Price \$160.00 per acre. Owner will guarantee \$15.00 per acre cash rent Fine 160, all in alfalfa, \$100.00 per acre. Will rent for \$10.00. Fine one-half section at \$75.00 per acre. We have a number of good quarters from \$30.00 to \$40.00. We have some fine propositions for exchange, for business blocks or general merchandise. We also have some fine tracts of cheap land, ranging in price from \$10.00 to \$20.00 per acre for colenizing. Raise fine crops under the Campbell system of farming. Write us for prices and literature.

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

DO YOU WANT A HOME?

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

VANDERHOOF & MacDONALD, Otis, Colo.

Colorodo Irrigated Land

22,000 acres of irrigated government land in south eastern Colorado has recently been opened for entry under the provisions of the Carey act. The State of Colorado has contracted with the Two Buttes Irrigation & Reservoir Company to construct the irriof land, which is located in Baca and Powers counties, close to Rocky Ford and other priority and title to land comes direct from the state.

Price of land 50 cents per acre; Perpetual water right \$35 per acre.

rayable \$5 cash, balance in ten annual payments. The tract is nearer any other Kansas City and Mississippi Valley markets than any other Carey Act project. Land free from brush and stone and soil will average 50 feet in depth. Altitude 4,050 feet; climate best in state; rainfall 16 inches; crops, all grains, alfalfa, sugar beets, vegetables, and fruit. No alkali. Local markets for everything. No agents employed and no commissions paid. Farmers wanted; not specula tors. For particulars write,

THE TWO BUTTES IRRIGATION & RE-SERVOIR CO., Colorado.

Big Crops

GROWN ON EASTERN COLORADO LAND

1500 farmers settled in Cheyenne county recently. The county is fast settling up. The investor should buy now. The homeseeker should secure a home while LAND CAN BE BOUGHT AT

\$10 to \$15 an Acre on Easy Terms.

Modern School Facilities. High School and Manual Training.

Cheyenne Wells, the county seat of Cheyenne county, is keeping pace with the development of the county. Just completed a \$30,000 court house and a \$15,000 high school without bonding the county.

Telephone System. Rural Free Mail Delivery.

A County Agricultural Society was formed last spring and a very successful fair was held this fall.

Come and see the crops grown on this cheap land.

A trip to Eastern Colorado is always pleasant, especially so in winter. Delightful weather, pure water.

Land is selling rapidly and prices will advance fast. For further information write

The

Cheyenne County Land Co.,

CHEYENNE WELLS,

COLORADO.

Colorado Lands and Snnshine

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

THE B. W. JACKSON REALTY CO.,

Fort Morgan,

A FARM THAT WILL PLEASE,

160 acre farm, 6 miles north of Cheyenne Wells the county seat of Cheyenne county. New two room house, barn 14x24, soft water, 50 foot well with windmill, 100 barrell cement tank, 50 acres well fenced, 45 acres in cultivation. 20 acres in wheat, 4 acres alfalfa, balance stubble ground for spring crop, clear of incumbrance. Price \$16 per acre. Easy terms. Address the owner.

L. S. WILSON,

Cheyenne Wells,

KANSAS LAND

\$PLENDID IMPROVED FARM.
\$8,000 will buy 78½ acres of good second
bottom land, 60 acres in cultivation, good
new 5 room house, cellar has sand rock
floor, good out buildings, close to railread,
school and church. On R. F. D., telephone
and gas line. Perfect title, no incumbrance.
Rents for \$400 the year. Write.

LEROY N. WALLING,
1007 Massachusetts St., Lawrence, Kan.

I WANT TO OFFER AS A SPECIAL BARGAIN

a farm 15 miles from Colby, smooth as a floor, good black loam soil, 100 acres in cultivation and seeded to winter wheat. Rural delivery running by the farm every day. All the 100 acres of wheat to go with farm. We think this one of the best bargains in the county today. And anyone wanting a quarter section in a good live neighborhood will find a bargain by getting in touch with the owner.

KKE W CRIMILY IKE W. CRUMLY,

SUMNER COUNTY BARGAIN.

160 acres, 4 miles to good town, good improvements, 100 acres fine wheat, 30 acres corn. If sold soon all the crops and possession for only \$50.00 per acre; good terms. Owner wants to put the money in his store business. See or write

WM. GODBY LAND & AUCTIONEERING CO.,

Arkansas City.

KANSAS LAND

A REAL SNAP.

120 acres Atchison County, Kansas, land.
All under plow and smooth; 90 acres in
wheat; 30 for corn; unimproved; 5 miles to
town; easy terms; \$65 per acre.
JOHN E. SULLIVAN,
Effingham,
Kansas.

RICE COUNTY FARM.

160 acres, 5 miles Sterling, new 7-room
house, barn 32X40, 20 acres alfalfa, all good
corn, wheat and alfalfa land, 80 acres in
wheat goes. Price \$15,000, good terms. Other bargains. W. BARRETT, Kansas.

Sterling,

EASTERN KANSAS PASTURE LAND FOR SALE.

Consisting of 480 a. all fine soil, well watered and fenced with four wire fence, in good repair. Located 4 miles Onaga, Kan. About one-third would make excellent farm land, balarce the very best of pasture. For quick sale at \$25 per a. with terms.

C. E. TINKLIN,

Kansas.

FARMS ON EASY TERMS.

Near Wichita, Sedgwick Co., Kansas. Owner in New York is closing out large holdings of fine land in 80, 160 and 320 acre farms and selling on easy terms and love prices. In addition to the above we have a large list of well improved farms. Write us what you want. We sell at owner's price.

V. L. MOORE & CO., Kansas. Wichita,

Farm Bargains Near Topeka

320 acres, highly improved, all tillable, 70 per acre 160 acres well improved, all tillable, 60 per acre, 160 acres fair improvements, all tillable,

\$50 per acre.
\$0 acres highly improved. \$55 per acre.
\$0 acres, fair improvements, \$55 per acre.
\$0 acres, fair improvements, \$550 an acre.
The above farms are all well located, and
each is offered at a bargam. We have a
tine list of farms and can fit you out. See

GILLETT & GILLETT,

104 West 5th St., Topeka,

NEBRASKA LAND

CLAY COUNTY FARMS. If you want a choice farm or stock ranch at prices ranging from \$25 to \$75 per acre, call on or address

ERNEST PINKERTON,
"THE PIONEER LAND MAN." Nebraska.

COME TO NORMAN, OKLAHOMA.

The educational center of Oklahoma
State University and best system of schools
in the new state. Fine farming lands at
reasonable prices. Good water. Write for

MONNET & ZINK, Norman, Okla.

FINE NEBRASKA FARM. FINE NEBRASKA FARM.

\$20 acres, 3 miles from Chester, with
good improvements, good or hard and good
neighborhood. Land all around it selling
from \$75 to \$100 per acre. Price \$65 per
acre for quick buyer. ther bargains in
smaller tracts. For further information
call on or address
R. L. WILSON, Chester, Neb.

DON'T MISS THESE LAND BARGAINS.
320 acres, choice farm, Hayes Co., Neb.,
74, miles from Palisade, smooth, best of
soil; 220 acres to wheat: 1-3 rental; good
4-room house, well, windmill, etc. A perfect beauty, in fine neighberhood. For
quick sale, \$35 per acre. 1,200 acre ranch,
Lincoln Co., Neb., 5 miles from Wallace;
450 acres good bottom alfaifa and corn
land; balance good pasture, timber and living water, \$20 per acre. For other good
land bargains see or write us. SMITH
BROS., Palisade, Neb.

ALFALFA LANDS.

ALFALFA LANDS.

All lands in Webster county, Neb., will grow the finest alfalfa, three and four crops every year. We want to send you illustrated matter regarding this beautiful, prosperous country. We have a snap for a quick saie on a halt section with 35 acres alfalfa now growing, 135 a cultivated; finely improved. Write for particulars. Red Cloud Real Estate Co., Red Cloud Neb.

TWO SPLENDID FARM BARGAINS.

460 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 cultivated, balance
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

write or see

ACKERMAN & STEPHENS.

McCook,

FOR GERMAN LUTHERANS AND OTHERS 320 a. smooth rich soil, 8 miles to station, Dundy Co. Neb., Ger-Lutheran settiement, ½ mile to church and school. "Choice of choicest." Splendid prosperous neighborhood, 10 miles S. W. Wauneta, Neb., 120 a. jultivated, 25 a. grass, 5 a. grove; school on iand, fair improvements, a beauty, price \$5,250, 477½ a. farm, same neighborhood, 400 a. cultivated, well improved, a magnificent farm, only \$14,000. Other tracts at bargain prices. See or write for list to E. F. WILEY & SON, Wauneta, Neb. gain prices. See or write for li WILEY & SON, Wauneta, Neb.

CHASE COUNTY, NEBRASKA,
Farms and Ranches for Sale.

Ranches from \$5 to \$12.50. good level farm land from \$15 to \$30 per acre, where wheat makes from 15 to 40 bushels per acre and corn from 20 to 50, hog cholera unknown, the undersigned has lived here 22 years and can prove the above statement to be facts. We have the lands for sale and automobiles with which to show it. All inquiries answered. Mention this paper and call on or address

BONNER & JOHNSTON,
Imperial, Neb.

262½ acre farm, in Franklin Co., Neb., 1½ mi, from Bloomington, Co. seat. About 100 acres choice bottom, alfalfa and corn land. 60 acres good pasture, fair improvements, fine spring, never failing, water, from hill, 30 feet above level of house and barn and 45 feet above level of balance of farm land. One of the most ideal farms and best bargains to be found. Price only \$16,000. Choice 1280 a ranch, well improved. Several quarter section and larger and smaller farms that are bargains. For information see or write

Wm. Anderson, Franklin, Neb. Franklin, Neb.

OKLAHOMA LAND

OKLAHOMA FARMS. est county for corn, wheat, oats, alfalfa tame grass. 80 acres \$3,500. 160 acres improvements, \$4,000. Write for list VOGELE & WOOD, Newkirk, Okla.

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

C. E. POCHEL. Newkirk.

FOR SALE—160 acres valley land, 10 miles southwest of Vinita, Okla. This land is level, smooth, bottom land, and will grow anything. It is located just a few miles from the Chelso oil fields, and it is only a matter of time, when the land will be developed. Price \$40 per acre. Mullen & Brecker, Room 15. Turner Bldg., Wichita, Kan.

EASTERN OKLAHOMA FARMS FOR
SALE.

We own and control over 50,000 acres of choice farm lands in Eastern Oklahoma, the garden spot of the new state, that will produce successfully corn, wheat, oats, timothy, clover and alfalfa. Low prices, easy payments. Perfect titles. Few farms for trade. Agents wanted. Write
COMMONWEALTH LAND CO.,
Vinita, Oklahoma,
Branch Ofices, Pryor Creek and Nowata,
Oklahoma.

There is a good deal of talk just now about a variety of corn new to this country, but which Uncle Sam's agents have found in China, and which it is claimed will be of much value to farmers in the semi-arid sections of the south and southwest. Many farmers from the so-called dry belt are making inquiry regarding it. First the United States Department of Agriculture will not recommend Chinese corn until its value has been demonstrated. Second, the farmers of the hot and dry sections cannot afford to await a thorough testing of the new corn under their conditions. It will require 10 years of careful work and investigation before the worth of this corn is established. The farmers of the dry section can avail themselves of varieties of corn already tested and proven valuable. There are varieties of Indian corn now well known which justify the efforts of the "dry" farmers. Those small, early maturing varieties now grown in sections will provide the dry farmer with grain for feed if his farming methods are right. These varieties are more or less known to every farmer. The old style King Phillip is as good as any and will mature in western Kansas and north and southwestern Oklahoma. Write your seed house for information.

It is this editor's observation that the farmer's troubles lie not so much in the quality of his seed, or the variety of seed, as in poor cultivation. Practically every farmer knows what good corn cultivation is and admits that his methods of cultivation are not as good as they should be. He excuses his poor corn farming on the ground that he has too much work to do. The excuse is a correct reason for so much poor farming, but is not a good reason. Time and again it has been shown, in these columns and by actual demonstration in every neigh-borhood, that it pays best to farm a few acres well than twice as many acres poorly. That is, it does in the long run, say for a period of 10 years. The fact that our seasons are irregular and a good crop is now and then produced, with practically no labor except the planting, is responsible for so much poor farming. There is so much in favor of good methods of cultivation that it seems farmers in general do better work.

Did you ever stop to think every sunflower growing in the corn field removes from the soil as much moisture as one stalk of corn bearing a good ear? How many ears of corn did your field yield per acre last year? How many sunflowers as tall as the tallest corn stalks grew per acre? Add the number of ears to the number of sunflowers and you will have an idea of the number of ears of corn you could have had if the field had been kept clean and good cultivation given. Would it not be worth while to keep the fields clean? Would it not have involved less labor to cultivate one acre well than to scratch over three acres? Would there not have been greater satisfaction in the work? Would it not have helped solve the labor problem when hired men were not obtainable? Wouldn't it have been better for the land to have yielded one acre of good corn and allowed the other two acres to either lie idle or produce some leguminous crop which would not have sapped the soil of its vitality?

The sunflower not only uses as much water as a stalk of corn, but takes from the soil a quantity of vitality, the loss of which, while never figured, cannot help but force itself upon the thinking farmer with astonishment. It is wonderful what we expect of our soil. We expect it to produce abundantly year after year. We take from it, but never give a thing back. work our horse, he gives of his strength and we give him feed according to his strength. The example of the horse and the soil are parallel. Do

"SNAPS" IN GRANT CO., OKLA.
160 a. 7½ miles of county scat, 6½ miles of railroad town, 110 a. in cultivation, balance pasture and meadoy, 30 a. wheat with farm, 5 room house and shed barn, granary, good water, 1½ miles of school, good soil, R. F. D.

Price, \$5,000 for 30 days. BATTEN REALTY CO. Medford. Oklahoma.

800 BUSHELS CORN GOES
with 310 acres of the very best land for
stock and grain farm in Craig county, near
Vinita, Oklahoma. 150 acres in cultivation;
balance hay and pasture. Price \$25 per acre.
For further particulars, write
LEFORCE & BADGETT.
Vinita,

we reason about these things as we should?

But we have drifted from the corn subject. We have one variety of corn which in the hot, dry sections is to a great extent overlooked. That is Kafir corn. Our farmers do not grow one acre where they should grow 25. Kafir corn is adapted admirably to just such conditions as it is believed the Chinese corn is. Kafir corn has been tried and not found wanting. It produces abundant grain when Indian corn fails. The grain has a feeding value almost equal to Indian corn. The feeding value of the two is equal for all practical purposes. The labor involved is somewhat less than in the case of Indian corn.

It is this editor's observation and judgment that every farmer in the western two-thirds of Kansas should grow Kafir corn. Enough should be planted each year to insure plenty of feed for all the farm live stock. This is the least acreage permissible in our judgment. A surplus is a good thing. It has a market value equal to Indian corn. During the dry and uncertain years in central Kansas the acreage of Kafir corn exceeded the acreage of Indian corn. Kafir corn was grown as an insurance policy. It assured The surplus acreage was planted to Indian corn for sale provided it made a crop. Kafir corn was adapted to the climate and was suc-

One thing we farmers must learn is to use crops and varieties adapted to our soils and climate. We cannot adapt climate and soils to crops. In the early days in central Kansas when farmers were farming Indian corn exclusively they were engaged in an up-hin business. If Kafir corn had been known in those days farmers in that section would have been 20 years fur-ther advanced, or "20 years better off" as one farmer recently said. The farmers of that section came from the Eastern states bringing with them the large, slow maturing seed corn of their native states and it wouldn't grow central Kansas. Farmers then did not know so well as now, but there are still many of us who do not have the "right mind" on some of these points.

Kafir corn, sorghum, milo maize, rice, corn and all kindred varieties have a reputation of being hard on the soil. They are not more exhaustive of fertility than Indian corn except in proportion to the increased yield grain and forage per acre, which combined is as a rule in excess of In-dian corn. These varieties, however, do leave the soil in a poorer physical condition. The root system of Kafir corn so thoroughly permeates the soil as to almost form a sod. The roots are hard and slow to decompose, but proper handling of the soil will overcome any objection on this account. The root system of these varieties is such as enables it to gather moisture in greater quantities than the roots of Indian corn. That is what keeps Kafir corn green when Indian corn is dried That is what makes Kafir corn produce a crop when Indian corn fails. The ground is consequently drier after producing a crop of Kafir than Indian corn, but this aside from the numerous roots is the only difference between the two so far as the soil is concerned.

There are numerous varieties of Kafir corn as there are of Indian corn and there is a difference in the seed. The red varieties are the earliest maturing varieties but the yield is not as heavy as of the white varieties. The red Kafir does not produce such large fodder when planted in drills. What sown for roughage the plants do not become so coarse as white. Stock prefer the white Kafir. It is sweeter than the red. But there is no difference in the seeding value. Kafir corn is a vegetable crop but it is a worthy crop. The man in localities where Indian corn is uncertain and who wants to incure feed for his live stock can do no better than to plant Kafir corn each year.

The Green Bug and Its Natural Enemies.

The University of Kansas has, in co-operation with the grain growers of the state, just issued an extensive report on the green bug. This report contains results of work conducted through 1907 and 1908, covering a period during which this subject was

KANSAS LAND

ROOKS COUNTY LAND

One Hundred Farms for sale. Write for lists.

C. H. DEWEY, -:- Stockton, Kan.

LIVE AGENT WANTED In your locality, to assist in selling corn, wheat and alfaifa land. We own thousands of acres in Pawnee, and adjoining counties. Write us for a proposition on our own ranches ranches.
FRIZELL & ELY, Larned, Kan.

A HOME.

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

LAND BARGAIN.
560 acre improved grain and stock ranch
a bargain. Located 6 miles from Colby,
Kan. A snap for some one. For particu-Kan. A sna lars address.

STEVENS & RUBY, Kansas. Stockton,

9 miles Healy, 40 acre good alfalfa land, 80 acres plow land, balance pasture land, no improvements, running water, a snap at \$1,600. Write for my bargains in land. WARREN V. YOUNG.
Dighton, Lane Co., Kan.

HELLO FARMERS! Have you read my list of GREENWOOD O. FARMS? The best corn, alfalfa, clover attle and hog country in the west. Fine ue stem pastures. Write for list and tices to

cattle and hostures. White blue stem pastures. White prices to prices to P. D. STOUGHTON, Madison, Kan. P. D. STOUGHTON, MARGAIN. SEDGWICK CO. FARM BARGAIN. For Sale: 480 acre farm, level dark soil, soo a. in cultivation, 180 a. in pasture. Good 11 room house, large barn 22x56 ft., also good tenant house and barn. close to good market town and 18 miles of Wichita. Price only \$24,000. \$38,000 cash will handle this, balance at 6 per cent interest 5 years.

BEATTY REALTY CO..

Opposite Post Office, Wichita, Kan.

Buy Western Kansas Land.

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

Minneola,

Can You See Ahead?

160 acres, creek bottom land, good alfalfa farm living water, new house, stable, well, pasture, fenced, smooth and level, for a quick sale only \$21 per acre; 8½ miles of Spearville. Address

STINSON & WEYAND,

Kunsas.

7 ACRES ALFALFA ON THIS EIGHTY \$3200. We sold four farms in four days, other sales pending Nov. 25th. Nos. 2 and 3 adv. 2 weeks ago sold. If you want land here before prices advance, hurry. This week we offer a nice 80 improved, 2 miles to station, all tillable, 7 acres alafalfa, nice, heen in 2 years. \$3,200, write for list of the bargains, they won't last.

DONAHUE & WALLINGFORD,

Mound Valley, Kansas.

DAIRY FARM.

80 acres. 30 under cultivation. Balance fine blue stem pasture; 14 of alfalfa; living water; timber; fruit of all kinds; good improvements; 1½ miles from Manhattan, a town of 8000 people and location of the K. S. A. C. A bargain. Price \$6,500.00. Good terms. Address, BARDWELL & BARDWELL,

Manhattan,

Every Man is Entitled to a Slice of This Good Old Earth.

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

FOR SALE-FINEST FARM IN SALINE COUNTY.

225 acres first bottom adjacent to city limits of Salina. Improvements, first class, consisting of S room house, large barn, splendid orchard, all necessary outbuildings. Fire home, best land in Kansas, absolutely O. K. Only 10 minutes ride from Salina 1'. O. Price and terms right. For particu-lars write.

R. P. CRAVENS, Salina.

FARM BARGAIN.

640 acres finely improved all tillable, new fencing, 250 acres in cutivation, 160 acres of meadow balance pasture, 8-room house, barn 54x66 all white pine, must be seen to be appreciated, a snap at \$40 per acre must be sold, don't wait to write, come at once and look, this over.

SEWELL LAND CO.,

Garnett,

Kansas.

160 acres, 5 miles of Ponca City; 110 acres in cultivation. \$6,000 if sold in 30 days.

TRUMBLY & BARRETT.

Ponca. City.

of great interest to the producers of small grain. This work was begun by the university, and the grain growers, noting the beneficial results, raised a fund to conduct it on a much larger scale. As many of our readers recall, the plan was to introduce the parasite into the fields where the green bug was at work. The evidence shows that this is a practical and effective means of repelling the advances of the green

This report discusses, first, the development of the work, and then gives in detail the life history and behavior of both the green bug, an Italian insect, and its arch enemy, the parasite. The progeny of one green bug for a season runs up in the sextillions. A single parasite with its offspring will reproduce much faster, and soon checks the increase of the insect hostile to growing grains.

The book contains 220 pages, and there are many beautiful and helpful illustrations to enable the farmer to distinguish his friends from foes in the insect tribe. The best methods of wheat culture are also emphasized. A copy of this report may be had free by addressing the Chancellor of the University, at Lawrence, Kan.

Chinese Corn.

The peculiar value of Chinese corn is that the erect arrangement of the leaves on one side of the stalk and the appearance of the silks in the angle where the leaf blade joins the sheath offer a protected place in which pollen can settle and fertilize the silks before the latter are ever exposed to the air. This, says the department, is an excellent arrangement for preventing the drying out of the silks be-fore pollination. It remains to be seen, though, if the leaves would stand erect and if the appearance of the silks in the angle of the leaf blade and sheath would be the same when the twenty-mile-an-hour blistering breezes come up from Arizona and blew across these western prairies.

Like all things that are heralded with glowing advance notices, this new corn has its disadvantages. For instance, the plants raised in the test averaged less than six feet in height, which would put out of business a vast lot of stepladders and high-corn stories that have been used in harvesting the crop in the west. ears, too, averaged only 51/2 inches in length and 41/3 inches in greatest circumference, with only 16 to 18 rows of small grains. The department believes that by cross breeding with some of the larger specimens in the United States the size of the Chinese species can be enlarged without impairing its peculiar value as to pollination. No doubt the department will conduct its experiments along this line at the western experiment sta-tions, since the bulk of the corn grown in this country is subject to the climatological conditions to which the new plant seems to be impervi-

The Stock Breeder' Biennial of 1908-9 is a book which should be in the hands of corn breeder and keeper of live stock in Kansas, or of any other state. The book is the proceedings of the twentieth annual meeting of the Kansas Improved Stock Breeders' Association. It is compiled by I. D. Graham, secretary and treasurer of the association. Besides containing the addresses before the annual meeting and the discussions pertaining to those addresses Mr. Graham has added an appendix of great value. The appendix contains an exploration of the Kansas feeding stuffs law by Di-rector Webster of the Kansas Experiment Station; the new stallion law of Kansas; and dates of all known fairs; plea for a Kansas plea is founded on indisputable facts; a directory of the officers of all the live stock breeders and kindred associations in Kansas; and most important of all a directory of all breeders engaged in the making of improved horses cattle, swine, jacks and mules sheep and poultry. Memand mules, sheep and poultry. Mem-bership in the Kansas Improved Live Stock Breeders' Association cost \$1 per year and such a report is issued each year. The book is worth the money. Every keeper of live stock money. Every keeper of live stock should become a member and be sure of getting the report. Some of the best things ever written on the various subjects are contained in the addresses given in the annual report and following are a few samples:

G. W. Berry in president's address: Conservation of the soil is the most vital agricultural problem of the age

merits the consideration of the wisest statesmen. It is in line with preservation of the forests, a measure promulgated by President Roosevelt, world wide in its scope and one of untold importance to future genera-tions. The farm its the farmer's bank, and the farmer who draws from his land without making deposits to restore its fertility will exhaust the resources of his land as certain as he who draws upon his bank continually without making bank deposits. Whoever sells a load of corn or wheat removes frim his land a portion of its fertility, returning to deposit, and year after year his farm grows poor. Whoever sells a cow or a hog or a horse helps his bank account and has left on his land deposits that restore the fertility of the soil and year after year his farm grows better. stock may be better than none. Good stock pays well and when combined with good farming leads to success and content with rural life and farming becomes a permanent occupation.

Director Webster, of Kansas Experiment Station: It seems to me that with conditions as they are with cheap feed, I suppose you think it is pretty high this year, where there is an equitable climate for live stock work, for the breeding of beef cattle, hogs and sheep, it is something that should be taken up and pushed harder in this country than it is done. In all of these things, with the conditions as they exist here we ought to be in the forefront rather than in the rear. We have the men, we have the farmers, and what we want is ambition along the lines of improvements of all classes. It means much to Kansas to improve the grade of the stock we have on our farms, and if there could be some organized effort for bringing into the state more pure blood males of every description it would mean much for the wealth of the state. Up in Michigan the agricultural college started in about seven or eight months ago by putting a man in the field to look up farmers who had high bred animals and looking up men wno wanted to improve their conditions through a better sire, and get-ting the men together. This man started out first with the dairy stock proposition, and after he was out only a few weeks he was simply astonished at the demand there was for good stock, by men who didn't know where to get it. This man came in and was able to place his hand on an animal where he could recommend it. He simply couldn't fill the orders that came through his hands. He didn't handle a dollar, he simply was an agent employed by the state to get the animal for the man who wanted it, from the man who had it to sell. Just how far the state ought to go in matters of that kind is a question perhaps. They tried it as an experiment but it proved such a success it almost scared them; they don't know just how far to go. It shows that what we need is to get the information to the people who want help.

Dr. O. O. Wolf, Ottawa, Kan.: In looking over the cattle of the state, one will find them composed of almost every existing breed. This promiscuous use of different breeds is largely responsible for the large percentage of inferior animals one finds distributed throughout the state. Success in any line depends largely "stick-to-it-iveness." on stability, or "stick-to-it-iveness." Little progress is made when one is constantly changing from one breed to another. Select the breed best suited for your purpose and environment and then do not be diverted by popular sentiment or public opinion. Ever remember that th breed along one line the more thoroughly will the characteristics you have been trying to perpetuate, become established. This is what makes some of the older breeds more prepotent than those of recent origin. This is what gives the old country breeder an advantage over the American breeder. As a rule cross breeding has a degenerating effect if carried on for succeeding generations. It seems to set free weaknesss and undesirable qualities that were apparently dormant in well established breeds. Although for one generation if the animal is intended for slaughter the result is sometimes extremely profitable. It comes nearest being successful when well bred animals are used on common grades. As a rule the offspring will partake of the characteristics of the well bred animal. This is but natural as all the blood el-

POLAND CHINA SALE

H. N. Holdeman, Meade, Kan., will sell at

Pratt, Kan., Sat., Dec. II

50 P9 Tried Sows, 8 Fall Yearling Gilts, 6 Spring Boars, 1 Fall Yearling Boar, 26 Spg. Gilts

This offering is strong in the best Poland China blood lines. are good enough for breeders and will be cheap enough for the farmer. These tried sows and gilts will be bred for early farrow to our good herd boars—some to Greater by Spellbinder and out of White Tip, a line bred Chief Perf. 2d sire; others are bred to E. L. Mischief, a grandson of Mischief Maker, and a show prospect himself. A few special attracof Mischief Maker, and a show prospect nimself. A few special attractions in the offering will be two young boars and four gilts by Kansas Meddler by Meddler and out of Prospect E. L.; two gilts by Kansas Meddler out of Lady Mischief; one tried sow by On The Plum, another by Corrected King and out of Chief's Model Girl. Also, one gilt that was first in under year class at Pratt County Fair this season. You will find this a nice, clean offering of up-to-date Poland Chinas. Send your name today for catalog. Breeders from a distance stop at Central Hotel, Pratt. Send your bids to O. W. Devine, representing Kansas Farmer. Come and be my guest whether you buy or not. I guarantee satisfaction.

AUCTIONEER-John D. Snyder.

H. N. HOLDEMAN,

Meade.

Kansas

After December 8 Address Pratt. Kan.

ements of the pure bred run in one direction. This is what makes the well bred anmial a more valuable sire than his grade brother of equal merit as an individual.

Charles E. Sutton, Lawrence, Kan.: In the first place we all want better stock. Of course I am in the purebred business and I get a great many letters of inquiry regarding bulls and stallions. In the course of these letters man after man will say: don't want something fancy." Now take it in boars. They want something as a rule worth from \$15 to \$25. There is no money in selling boars worth from \$15 to \$25. Boars worth anything are worth more than \$15 to \$25. If we stand together and castrate every animal that is not worth \$25 we will get better results. Every boar that is not worth \$25 is a damage to every one of us. You cannot expect superior stock from an inferior animal. You sometimes get it, but you have no right to expect it. Another man writes: "I purchased a boar that originally came from your herd, had your blood lines represented. I don't want anything connected to that boar." There never was a greater mistake. In all the years I have been handling pure bred stock, I think in every instance where I have ased an animal that did not carry the same blood lines I have injured my herd. The thing of pickin; an animal that has been bred on the one hand by mating up this and that and it coming out of such an animal as you admire, is crossed on a herd that is made up of an entirely different lot of animals. I want you to put those animals together; they go in every direction. As I said before. castration is the only salvation for our business. Mr. Elward: I would like to ask about using males in the same blood lines. For instance, we have had several Wild Tom bulls. Would you buy bulls out of that Wild Tom bull family? Mr. Sutton: Yes, you bet I would. That bull will give you a type. You get the benefit of all these years the breeder has spent in reproducing the blood of Wild Tom. All the crosses we have had in cattle and all the crosses we have in hogs

and horses, the best have come from this line breeding.

L. L. Vrooman, Topeka, Kan.: One of the requisites is to select a breed. If you fancy a certain breed there is variation enough in the type of that one breed to accommodate the most exacting. By all means breed nothing put pure breds. The price between the pure bred and the average market hog is so little it would not pay any one contemplating starting in with a breed of hogs to buy anything but pure bred hogs. It takes a little nerve on the start. We get so in the habit of thinking economy and talk-ing economy and talking about pov-erty until we lose sight of the better things of life. Think larger; if you want to grow or develop you must think large. If you have been thinking in cents, think in dollars. If you have been thinking in dollars, think in hundreds. I wish there were more of the farmers would think in hundreds instead of dollars. Perhaps we breeders might be able to sell more hogs. Breed for a thick type in that breed. Have a type in view and stick to that type. If you have to propagate that type on your farm in order to get it, do it, and if you have to breed the sows closely related to some boar to fix that type, do it.

He Didn't Much Care What the Sea-

We all look forward in the spring. wondering if we are to have a good season. As our land grows poorer, very much depends on the season. When we first came to Wisconsin, 52 years ago, writes ex-Governor Hoard, the land was so rich that we noticed that good crops were raised in all kinds of seasons. The same is true of the farmer who has kept up the fer-tility of the soil, who has made a study of soil exhaustion and what will

prevent it.

Modern farming consists largely in using methods that will help out against bad seasons. We heard a first class farmer make a suggestive remark not long since. We had asked him about his hay crop this season and this is what he said:

"I don't much care what the season is late years. I've kept my soil up, and a corn crop for the silo is almost



a sure thing. So it doesn't matter much about hay. Indeed, I am beginning to think hay, except red clover and alfalfa, is the most expensive crop I can raise. Why, I can put the value of seven tons of timothy into a silo off of one acre of corn ground. The corn is surer than the timothy. Then, besides, the ensilage is always juicy, the cows like it winter and summer and the milk rolls out."

That man makes dollars where some farmers do quarters. He doesn't hap-pen to be cursed with a lot of old-worn-out notions about farming that there is no money in.

Best Type of Silo.
"The best type of silo for cheap and quick erection as well as general durability, considering its cost, is the hoop stave silo," says Prof. C. O. Ocock of the University of Wisconsin. "Farm-ers frequently inquire how they can best provide themselves with a good silo and do it late in the season in time to receive the corn crop which is now approaching maturity. With good care the stave silo may last 15 to 20 years. Care is especially important since the stave silo is like a large tub and the hoops must be kept tight or the tub may fall to pieces, especially when it is empty during dry summer weather.

"The ready made silo is usually best as this can be purchased from manu-facturers complete and will prove more satisfactory than when made from materials prepared at home. The grades of timber vary greatly, fir, cypress and red-wood being best and highest priced. A good 150-ton silo can be purchased at a cost of \$200 to \$500, according to the material. A cover should be provided where there is much snow and the door must be air-tight and easily removed from the outside as soon as the silage has been removed below the level of the door

George Crooks, the old time and successful Poland China breeder, located at Clay Center, Kan., has been making some very good sales and still has some choice boars and gilts for sale at reasonable prices.

Spring Boars and Gilts.

With this issue Oliver & Sons start an ad for their large, prolific Poland Chinas. Mr. Oliver has been breeding Polands for 37 years and has stuck to the one type of a large, smooth Poland. He breeds for size and quality. In this herd will be found several as good sows as the writer ever saw on any farm in the corn belt. The most of them are by Gassick's Perfection, by Chief Perf. 2nd., with an out cross of the large Tecumseh strains. Write for prices and kindly mention Kansas Farmer.

Amcoats' Making Sales.

S. B. Amcoats, one of our regular advertisers, reports nice results from his advertising. Among recent sales is a boar to E. L. Axeiton of Garrison and one to C. W. Huse of Belvue, Kan. Mr. Amcoats still has some dandles left. They are big husky fellows and will be priced low for the next two weeks. Mr. Amcoats has purchased a very large heavy boned boar from B. M. Bell of Beattle, Kan. He is a line bred Expansion and cost Mr. Amcoats quite a long price, but he is a good one and is sure to make a good nick with the sows in this good herd. If in need of a boar write at once.

Shorthorn Bulls.
O. A. Tiller, of Pawnee City, Neb., reports the sale of a very good Duroc Jersey boar through the advertisement in Kansas Farmer to C. C. Thomas of Webber, Kan. The boar is a Lincoln Top and out of Mr. Tiller's Farmer Burns sow. Mr. Tiller is about sold out of boars and changes his advertisement this week. He has for sale some choice Shorthorn bull calves. They were sired by Pleasant Hill Master 292836, by the great Master of the Grove. This bull is pronounced to be almost the type of his sire. The young bulls are good individuals and out of good cows. Write at once about them.

Stockmen Will Have a Day.
Authorities on cattle and hog breed-

ing will make reports on the results (f
their investigations at the coming
meeting of the American Breeders Association to be held in Omaha Dec. 8, 9
and 10, and the stockmen have the first
day of the program. These are some
of the reports which will be heard:
"Hereford-Shorthorn Crosses," P. E.
Fogle, Jefferson, N. C.; "Grade Braham
Cattle in Our Southern States," Prof.
C. Willoughby, Georgia Experiment
Station; "An Important Principle in Selecting for Fancy Points," Prof. W. J.
Spillman, Washington, D. C.; "Cow
Testing Association," Collin C. Lillie,
Coopersville, Mich.; "Breeding Milking
Shorthorns," Prof. Andrew Boss, St.
Paul, Minn.; "Feeding the Brood Sow
and Litter in Swine Breeding," William
Dietrich, Urbana, Ill.

Powers County, Colorado.

Powers County, Colorado.

The farmers of the Lamar territory, the county seat of Powers county, Colo. have reason to be proud of the record that they made at the St. Louis Exposition in open competition with the finest farm products of the entire world. They demonstrated the superiority of Powers county soil by receiving four gold medals. In addition to these the grand prizes awarded the state were largely due to the Powers county exhibits. This is certainly a grand county. It must be seen to be appreciated. The Geo. A. Watson Land Company of Lamar, Colo., who have been doing a real estate business since 1886, have on hand a well selected list of bargains. It will pay you to write for their list. Better still, go and see. They refer you to any bank in Lamar or Powers county. See further announcement under real estate heading in this issue.

A Country Life.
It seems to me I'd like to go
Where bells don't ring, nor whistles blow
Nor clocks don't strike, nor gongs don't And I'd have a stillness all around-

Not real stillness, but just the trees Low whisperings, of the hum of bees, Or brooks faint babbling over stones In strangely, softly tangled tones.

Or maybe a cricket or katydid, Or the songs of birds in the hedges hid, Or just some such sweet sounds as these To fill a tired heart with ease.

If 'tweren't for sight and sound and smell I'd like the ciry pretty well;
But when it comes to getting rest
I like the country lots the best

Sometimes it seems to me I must
Just quit the city's din and dust
And get out where the sky is blue,
And, say, now, how does it seem to you?
—Eugene Field.

AN EXCEPTION BARGAIN.
The Kansas Farmer 1.00
The Western Poultry Journal50
The Review of Reviews 3.00
The Womans Home Companion 1.50
McClure's Magazine 1.50
Total Actual Value. \$7.50 Our Price. \$4.00 This great group of magazines is a whole ibrary in itself. The home supplied with this literature for a year will enjoy the greatest treat in reading matter possible to secure. This offer may not appear again.

Jearn to Draw

The field of art probably offers greater opportunities than any of the other protessions.

The Reid School of Art, Topeka, Kansas

is the oldest and most successful art school in the west. After first year students work helps to pay their tuition. Board in Topeka is cheaper than in larger cities.

For information address

Reid School of Art, Crawford Bldg., Topeka, Kan.

KANSAS LAND

KANSAS LAND

20	EW SNAPS a., perfectly	IN A	BSOLUTE	LY LEV	EL LA	VD.	two	towns.		\$20.00	8.
88	a., very fine	not i	a foot of w	aste						\$12.00	8.
60	a., 12 miles These are s	out,	very fine. bargains.	Write	me. H.	D. İ	RUGHO	ES. Mc	Donald,	Kansas.	8.

\$20 PER ACRE.

\$20 acres of perfectly level land. 160 acres in cultivation, good improvements, close to school, on telephone line and Rural Route. Terms on \$3,000.00 if desired. If interested please write for full complete description. EDWIN LYMAN, McDONALD, KANSAS.

A RARE SNAP.

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

HUNTER REALTY COMPANY (Est. 1893).

Enid, Okla.

FARMS IN THE FAMOUS WASHITA VALLEY.

110 acres fine river bottom. All in cultivation. A few nice pecan trees, no gumbo, sandy loam. Produce 60 bushels of corn to the acre. Finest alfalfa land. barn, but no house. Incumbrance \$2,000; long time if sold quick. Price \$50.00 per acre. Write GUARANTEE LAND & LOAN CO.,

EXCHANGE FOR EASTERN KANSAS FARMS

\$25,000 hardware stock, located in Eastern Kansas, town of over 25,000 population. Trade for stock farm in Easter Kansas.
\$13,000 income building, located in Topeka, Kan. Trade for stock farm.
\$10,000 residence, well located, We t Side.
\$1 lots, 12 large rooms, strictly modern in every respect. Finished in o.k. Want stock farm in Eastern or Central Kansas.

GEO. M. NOBLE & CO. 435 Kansas Ave. George M. Noble.

Topeka, Kan. J. Will Kelley.

FOR SALE AT BIVERSIDE STOCK FARM.

5 Percheron Stallions from 2 to 5 years old, 5 Percheron mares from 15 months old to 5 years old. All colors good. All registered and breeding guaranteed. A fine young registered Shorthorn Herd with Royal Glosster at the head, a pure Scotch bred bull. I will trade this herd on a good farm. Come and see my stock or write.

O. L. THISLER & SONS,

Kan.

LAND

Sumner County's rich mellow soil will soon be as famous for the production of Corn and Alfalfa as it is for wheat which will send the prices soaring. Better get in on the ground floor and get a good farm while the prices are yet comparatively low. We will be pleased at any time to show you field after field of Alfalfa that cuts from 5 to 7 tons per acre. Write me now for my list of land at \$25 to \$50. per acre. Owner's price my price.

WM. HEMBROW

Immigration Agent Rock Island Lines.

Caldwell, Kan.

ZIMMERMAN IRRIGATED LANDS.

Advance \$10 Per Acre December 1, 1909.

Forty acres in alfalfa will afford an annual income of \$2,000 per year, and more than double that amount in fruits or early vegetables. Thirty dollars down will secure you a contract for 40 acres and the balance in 10 or 20 payments, without taxes or interest, if fully paid before 1913; when a warranty deed and deed for perpetual water rights will be given.

Write for particulars about the best investment in irrigated lands in America, to the General Selling Agents.

THE HEATH COMPANY.

Topeka, Kan.

109 West Seventh St.,

Topeka, Kan.

BUTLER COUNTY RANCH BARGAIN.

760 acres Butier Co., 200 acres first class corn and alfalfa land, 40 acres timber, balance meadow and blue stem pasture; 2 miles to shipping point. R. F. D., telephone, good 5-room house, 2 large barns, never failing running water. Price \$35.00 per acre. For further particulars write

L. L. KISER.

Eldorado.

Kan.

55 acres adjoining Wichita City limits, that will sell for \$100 a lot; 8 2-3 lots to the acre. This will be \$875 per acre. We will sell it for \$125 per acre for the next 20 days, and 2,600 acre well improved ranch in Meade Co., per acre \$16.00.

FOR SALE TO PLAT.

J. F. BELLEW & CO.,

110 Main St.

Wichita, Kansas.

NEBRASKA LAND

\$11,500.00 BUYS

One of Nebraska's richest farms of 16 a., 5 miles from Fairbury, 6-room house, barn 67x78, 90 a. cultivated, 35 a. alfalfa. We have many other bargains.

NIDER & HENRICHS, Fairbury,

I SELL DIRT.

I have for sale one of the best improved ranches in Southwest Nebraska, containing three sets of improvements. The ranch contains 4760 acres of fine land, 2500 of which is fine alfalfa land. I also have for sale good farms from 160 acres up, write me.

S. STEINMANN,

Neb.

PINEAPPLE CITY, MEXICO.

Excursion Dec. 7.

Almost one half of the 12,000 acres we advertised in this page last week is sold. If you want in on the ground floor on this proposition make your arrangements to be with us on the Dec. 7th excursion, write for our illustrated booklet, it tells the whole story.

THE MEXICO IMMIGRATION LAND & FIBER CO., THE MEXICO IMMIGRATION LAND & FIBER CO.,

201 S. Main St.

Wichita, Kan.

MISSOURI LAND

FARMS FOR SALE in South Missouri. I have several good farms for sale on easy payments from \$5 to \$10 an acre. Please write me for full particulars.

WILLIAM BOWEN, Houston,

Missouri.

TEXAS LAND

FOR SALE.

Several thousand acres good agricultural prairie land near R. R. town; price \$17.00 to \$37.50 per acre, owing to location and improvements.

G. T. REINHARDT, East Barnard.

Texas.

SHORTHORN CATTLE

12 bulls, 12 to 18 months; 20 cows and shaw BROS...

SALE. FOR

10 choice young bulls from 8 to 12 months old, part straight Scotch.

Choice yearling and short two-year-old before.

Good colors, bright red, priced right.

G. W. TAYLOR, Pearl, Kan.

Address Mail R. F. D. 2, Enterprise, Kan.

ALFALFA LEAF SHORTHORNS.

Special offering of four bulls. One by Archer 205740 out of a Victoria cow, Three by Nonpariel Star, one a Victoria, one imp. Edelweiss and one Christmas Gift. Also a few choice heifers of equal quality and few choice helf breeding. JOHN REGIER, Whitewater, Kan.

RENO HERD SHORT-HORN CATTLE

Bulls in service, Forest Knight 226084 and Victor Archer 264156, Breeding stock for

Stewart & Downs, Hutchinson, Ks

Evergreen Home Farm.

Milking Shorthorn Cattle, Bred Hornless, Berkshire Hogs, Oxford Down Sheep. Bourbon Red Turkeys.

LATHROP. MISSOURI.

JEWEL SHORTHORNS

A young herd of up-to-date breeding.
Also Percheron and Standard bred horses.
In stud, the Percheron stallion Marquis De
Wierre, (Imp.). Also the Standard bred
stallion, Red Seth 31185. Farm adjoins
town. Come and see us.
W. T. LOWE,
Kansas.

GREENDALE STOCK FARM

25 YOUNG BULLS by Imp. Ardiatham Mystery and Best of All for sale at bed rock prices. Can also offer some good Berkshire swine and Shropshire rams. Correspondence solicited.

COL. ED. GREEN, Prop., Kansas.

The home of the Scotch bulls Prince Pavonia 207316 and Searchlight 290231.

Large type Poland China boars, Designer 39199 and Major Look 48039. The original Designer kind—choice herd boars now ready fer shipment. The Designer kind that grow big. See my cattle exhibit at the leading fairs this fall. Write your wants.

C. S. NEVIUS,

Chiles, Miami Co., Kansas.

25 SHORTHORN COWS AND HEIFERS. All are bred or have calf at side. A few Good Young Bulls that I am sure will suit. Everything nicely bred and in good condi-

tion. Moderate prices. D. H. FORBES & SONS, Topeka, Kan. R. F. D. No. 8. Bell 'Phone 81.

Prospect Farm Shorthorns

The oldest Shorthorn breeders 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.

Spring Hill Shorthorns 300 Head Sootoh and **Bates Pedigrees** G. COCHRAN & SONS, PLAINVILLE, KANSAS.

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.

The Nelson Real Estate Co., of Wichita, Kan., are offering some valuable farm bargains. Look up their ad on another page and write them.

Dairy Farm for Sale.

Bardwell & Bardwell of Manhattan, Kan., are advertising a first class dairy farm in this issue. The farm is located close to Manhattan and can be bought at a bargain. When writing mention Kansas Farmer.

R. B. Marshall, of Willard, Kan., is offering some very fine Tattertax Duroc Jersey boars. They are sired by the noted prize winner Tatterrax and out of very high class dams. Write for prices and mention the Kansas Farmer.

Poland China Boars.

J. E. Bowser, the big type Poland China breeder located at Abilene Kan., has decided not to hold a bred sow sale this season and is offering all of his spring gilts for sale privately. He also has some choice boars for quick sale. Write at once and mention Kansas Farmer.

In a recent letter to Kansas Farmer H.
L. Faulkner, owner of Highview Breeding
farm, Jamesport, Mo., writes: "Have had
a great business this fall on the big boned
spotted Polands. Have sold 250 pigs since
last May. Kansas Farmer is all right and
certainly helped out on the fall pigs. Will
sell 50 good sows and gilts all bred for

February and March litters in my Feb. 10 sale. Am having a hard time holding them for the sales as I have requests every day for prices on something bred. I am going to hold them for the sale however, and make this the sale of my life."

Cheyenne County, Colorado.

With this issue we are starting the advertisement of the Cheyenne County Land Co., located at Cheyenne Wells, Colo. This company own and control all the lands they sell. They are in a position to sell you land that will produce any crop that can be grown in Kansas. More than 1,500 farmers settled in Cheyenne county recently, and the county is fast filling up. Land can be bought from this company at from \$10.00 to \$15.00 per acre on easy terms. Write for literature. Botter still, go and see the land. Romember you are doing business with men with the very best of reference.

Few Large Type Peland China Boars.
With this issue J. D. Spangler of Sharon,
Kan.. is changing the copy for his ad. He is
offering some extra good large type Peland
China boars They are large thrifty fellows
and just right for heavy service. They are
bred right and priced right. \$25 will but
the pick of the bunch for the next 10 days.
Send your order at once.

Cash for Furs and Hides.

Little things are what count. A little saving here, an economical purchase there and the grasping of an opportunity yonder will loom big at the end of the year. The opportunity offered by Biggs & Koch, 937 Liberty street. Kansas City, Mo., is worth consideration. When you have a hide to sell or any furs to dispose of ship to them direct and save a commission. Read their advertisement.

75 S. C. Rhode Island Pullets.

In this issue, Deloss Chapin, Single Comb Rhode Island Red specialist of Green, Kan., is offering to sell 75 carefully selected pullets at very reasonable prices. These birds are from a pen headed by the cockerel that won first at Missouri State Poultry Show last year. He also has a few choice cockerels. Write at once and mention this

Shorthorns at Private Sale.

Good young bulls and females can be purchased from the well known breeders D. H. Forbes & Son, Topeka, Kan. They invite all prospective buyers to call and carefully inspect their herd at Cedar Heights farm near Topeka. They have pure Sctoch and several good cows and heifers carrying from three to five Scotch top crosses, all in first class condition and priced very reasonabe. Please write them at once and kindly mention the Kansas Farmer.

A Handsome Calendar for 1910.

One of the most pleasing calendars for 1910 that we have seen is the one sent out by our friends, the Vermont Farm Machine Company. The original painting in colors is the efforts of one of New York's best artists and is a credit to the painter, lithographer and company issuing it. The Vermont Farm Machine Co., Bellows Falls, Vt., inform us they will mail to those readers of Kansas Farmer interested in improved dairying methods, this beautiful ten-colored fithographed calendar who mention our paper. Better write at once before the calendars are all gone, as we understand their quantity is limited.

There has been a great rush to eastern Colorado for free homes and cheap lands. Those who return to their native homes claim that no better investment could be made. Hugo is a favorite stopping place. Here is the United States land office, and the home of A. S. Mitchell, the land man. Almost every one stopping at Hugo goes directly to Mr. Mitchell for information about Lincoln county. On another page of this issue you will find a few facts regarding Lincoln county. Mr. Mitchell is perfectly best bank reference. Write him today for literature or, better still, go and see the land offered at a price that is bound to double in value in the next few years.

Champion Feed.

Elsewhere in this issue of Kansas Farmer will be found the advertisement of Champion Feed, manufactured at Tarklo, Mo. If the judgment of the heaviest feeders and most successful men is to be taken, there need be no doubt in the mind of any farmer or feeder regarding the merit of this article. David Rankin of Tarklo, the largest corn grower and feeder in America, has used as high as 1000 tons within six months, nearly six tons per day Mr. Rankin raises and feeds about 1000 bushels of corn per year and finds that Champion molasses feed mixed with the corn greatly increases the feeding value of the corn. Champion feed is certainly one of the greatest feeds of the present time. For further information write Champion Feed Company, Tarklo, Mo., and mention Kansas Farmer.

Rocky Ford, Colorado.

Who has never heard of the Rocky Ford Nutmeg Cantaloupe? Very few realize what a beautifull farming country surrounds this town in the prettlest part of the Arkansas Valley. The climate is unsurpassed by any city in Colorado. The Rocky Ford Realty Co., one of the leading firms of Rocky Ford. would be pleased to send you literature which describes everything of interest in and around Rocky Ford, also a list of good farm land and prices. Correspondence is solicited. See special farm bargain offered by this firm on another page underland bargains. land bargains.

H. B. Walter Buys Expansive.

Expansive perhaps one of the best sons of old Expansion, has again changed hands. H. B. Walter of Effingham, Kan., has recently purchased him from his former owners Thomas & Swank of Waterville, Kan. He is one of the biggest sires of the breed and noted as a producer of big, smooth stuff. He has made good money for two herds in the past and bids fair to make history in the future. Mr. Walter has one of the best sow herds to be found anywhere and is to be congratulated on his excellent judgment in buying such a sire to mate them with. Keep your eye on this herd.

Absorbine Does Great Work.

Barney Ogan, Somerset, Ind., under date of June 23, 1909, reports to Mr. Young as Absorbine—that it has done great work for me in a short time. I began using it on a Friday morning and Saturday my horse could put his foot to the ground for the first time in three months. It was a bad case but I was surprised to find what the Absorbine had done so soon. I thought that she would have to be killed almost any time, but it looks as if she were going to get along now." Absorbine for all kinds of

iameness, bruises, soft swellings, bog spavin, big knee, pell evil, etc., \$2 at druggists, or seat express prepaid upon receipt of price. W. F. Young, D. D. F., Temple St., Springfield, Mass.

Graner's Dec. 8 Sale Last Call.

One of the really good chances of the season to buy the best in Percherons, Shorthorns and Poland Chinas will be at Mr. Ii. C. Graner's sale to be held at his farm on Dec. 8. Mr. Graner is forced to make this sale on account of poor health and will offer on the above date horses, cattle and hogs that would not be for sale under any other conditions. The Shorthorns are Scotch topped and represent the best known families. The hogs are of the big type Mr. Graner has spared no expense in buying foundation stock. Stock men will surely consult their own best interests by arranging to attend his sale. Write at once for catalog and mention Kanses Farmer.

Percherons at Auction.

The Percherons included in H. C. Graners' Doc. 8 sale are consigned by Mr. Graner's brother W. H. Graner. They are a dandy lot consisting of excellent young individuals of both sexes. They are sired by Mr. Graner's herd stallion Black Knight 3824. The stallion is conceded to be one of the best producing sires in his part of Kansas. He was foaled in 1902 and is for sale at private treaty. Included in the offering is the fine young mare Daisy. She has been shown five times and never defeated. Her full sister, also a show animal goes into the sale. Mr. Graner has always won a big share of the ribbons. For catalog of this sale write H. C. Graner, Lancaster, Kan., and mention Kansas Farmer.

Farmer.

A Fair Buroe Sale.

H. G. McDowell, Duroc Jersey breeder of Corning, Kan., made his public sale in town last Saturday. The stock was sold in mederate condition and averaged a trifle over \$22.50 rather low but at prices that will make good money for the buyers. Among the principal buyers were H. M. Graves, Atchison; V. Broadbent, Corning; L. Congrove, Corning; M. Flynn, Holton; E. I. Nightingale, Corning; C. A. Hilbert, Corning; T. N. Clowe, Ontario; W. H. Smith, Seneca; T. M. Horton, Centralia, O. K. Wilcox, Corning; E. A. Reath, Soldier; E. W. Nuzman, Soldier, and others. Mr. McDowell has bought a fine farm six miles north of Topeka and will move onto it this winter. He is keeping some of his lest sows and will continue to breed good Durocs. Had the females been sold a month doubtedly been received.

Blue Ribbon Stock Farm.

With this issue we start the ad of Chas.
C. Fair, at Sharon, Kan. Mr. Fair is the originator of the White Ivory strain of White Rocks, and has won more premiums and bred niore, won high scoring birds than any other breeder of the White Rocks. The writer recently called at the Blue Ribbon Stock Farm and carefully inspected one of the best flocks we know of. There is in this flock White Ivory, a bird that has the score of 96% points and weights Ivory Second has a score of 96% points and was winner of three sweepstakes and the Silver cup last year. Queen Ivory has a score of 96% points and is considered the second best hen in the stakes. Write to C. C. Fair, at Sharon, Kan., for prices and mention Kansas Farmer.

Crow's Durocs.

W. R. Crow of Hutchinson, Kan., has just returned from a successful campaign of fairs finishing up at Oklahoma City State Fair of Oklahoma. Mr. Crow has shown hogs horses and poultry at nine different fairs, and met with the best of success, both in premiums and sales. He sold 48 hogs at the different fairs and won \$1,450 in premiums. He has some of the champion prize winning hogs of the Nebaska. Kansas and Oklahoma state fairs. Mr. Crow has a fine lot of young hogs, Duroc Jerseys, for breeding purposes. He is offering them for sale at reasonable prices. If you need a good herd boar or some good bred gilts write to W. R. Crow at Hutchinson, Kan. He has a good supply on hand to select from Kindly mention Kansas Farmer when you write.

Aberdeen-Angus Helfers.

McAdams Bros., the goodl reliable and successful Aberdeen-Angus breeders located at Holton, Kan. have an advertisement in this issue offering to sell a few choice year-ling and 2 year old helfers. They are excellent individuals. They are being offered at very low prices in order to reduce the herd before winter sets in. They were sired by the herd buil Mayor of Oakland, a buil that has been shown quite successfully by his owners. His winnings are as follows: 4th as a calf at International, first as a yearling at St. Joseph, and first and champion at Topeka this year. They are also offering a choice yearling bull out of a fine cow Delia 14th, a Black Bird topped Drummin Lucy cow weighing 1,600 at two year old. Two of the hiffers are out of a Sir Princess cow that was champion at Topeka this year and stood high at American Royal, Others are of the noted pride strain. Remember they will be priced to sell Mention Kansas Farmer when writing.

The Missouri Auction School.

Did it ever occur to you that a large per cent of the young men today close their eyes to the vast possibilities of the future and see only the present moments with all of its failures? Have you not shown good judgment when you lavest \$50 and only four weeks' time to prepare yourself to make from \$10 to \$50—not per month—but for a single day, and that from two to three hours' work? Have you not attended sales and seen auctioneers make these big wages when you felt sure you could do as well with proper training and prestige which the Missouri Auction school gives you? The auction business is only in its infancy. There will always be openings for the auctioneer who is qualified for the work. Old positions will be made vacant and new ones created, but none of them will be yours unless you qualify yourself to do the work required. Mention Kansas Farmer and write to W. B. Carpenter, Trenton, Mo., for catalog.

Haldman Sells Dec. 11, 1909.

Holdeman Sells Dec. 11, 1909.
On Saturday, Dec. 11, at Pratt, Kan., H. N. Holdeman will offer some of the very best specimens of Poland Chinas. Mr. Holdeman is one of the reliable breeders of Kansas and has gained the respect and confidence of a large number of breeders. Mr. Holdeman sells on an absolute guarantee and sells the best he has in the herd. Mr. Holdeman has at the head of his herd Kansas Meddler sired by old Meddler, the world's

SHORTHORN CATTLE

Sunrise Stock Farm.

Having seld my farm, will price my cattle at bargain prices. Some good buils, cows and heifers from 1 head to 3 car loads. 1 extra show cow.

J. W. TOLMAN, Hope. Kan.

TENNEHOLM SHORTHORNS
SHROPSHIRES and LANGSHANS.
Four good red bulls 8 to 12 months old.
Sired by Good Scotch bulls and out of Wild
Eves and Kirlkevington cows. Dams are
good milkers. Females for sale also.
E. S. MYERS,
Kanses.

Chanute.

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 te answer letters. Bell phone.

J. W. Pelphrey & Son, R. D. 6, Chanute, Ka

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 reasenable prices on these.

O. A. TILLER,

GUERNSEY CATTLE

REGISTERED GUERNSEX UATTER.

Herd headed by Eminence of Berchwood, whose ancestors have butter fat records of 668 pounds to 714 pounds per year. Herd tuberculine tested. Write for prices.

FREDERICK HOUGHTON, Kansse. REGISTERED GUERNSEY CATTLE.

AUCTIONEERS

COL. ESSIE GRAVEN, NORTH BRANCH KAN Live Stock and General Auctioneer. Ask

COL. JOHN D. SNYDER, Winfield, Kan.,

LIVE STOCK AUCTIONEER.
Sales made everywhere. Write or wire me for dates. Prices reasonable.

A. C. Manifold, Tartie, No.

Live Stock Auctioneer. Selling for the best breeders in Western states. Still have a few open dates for fall.

W. C. Curphey,

LIVE STOCK AUCTIONEER.
Write, phone or wire for dates. Abllene,

T. E. DEEM, Austioneer.

Pure bred sales a specialty. Get my open dates. Terms low. Address CAMERON, MISSOURI.



LAFE BURGER.

Live Stock Auctioneer. Write or wise me for date. Wellington Kansas.

Residence Phones, Office Phones Mutual 114; City 528. Mutual 134; City 626

W. WEIDMIER,
Experienced Live Stock Auctioneer.
Terms reasonable. Big tent free. Write
or wire me for date. Cameron, Mo.

Jas. W. Sparks Live Stock Auctioneer. Marshall, Me. Twenty years selling all breeds.



J. H. Moorman

Live Stock and general farms sale auctioneer. Satisfaction guaranteed. Long distance phone connection. SOLOMON, KANSAS

LIVE AND LET LIVE

is my motto. Reasonable charges and good service. Choice of dates if you write early.

JAS. T. McCULLOCH

CLAY CENTER,

R. L. HARRIMAN AUCTIONEER PEDIGREED LIVE STOCK Write me for dates. BUNCETON, MO

LEARN AUCTIONEERING

Trained, competent men make big money with no capital invested. You can be independent. Others are, Jones National School of Auctioneering teaches you how. (Over 500 graduates in the U. S. and Canada.) Mid-winter term opens January 3, closes February 11. Write today for free catalog. Address

CAREY M. JONES, President, 2856-2858 Washington Boulevard, Chicago.

De

DUROC JERSEYS

DUROC JERSEY BOARS AND GILTS. The tops of my spring crop. Sired by the Champion Chief Tattarrax and G. M.'s Carl Cel. Dams of the richest breeding. Reasonable prices.

GEO. M. HAMMOND, Manhattan, Kansa

SOLLENBURGER'S DURUCS.

Breeding of the very best. Choice boars nd gilts of March and April farrow for ale. Write at once if interested.

R. Q. SOLLENBURGER, KANSAS. WOODSTON.

Hanley Strain of Durocs

Write for prices.

PAUL B. JOHNSON, Leavenworth, Kan. GREENWOOD HERD DUROC JERSEYS.
Herd boar Dandy Duke 64663, few choice
spring boars for sale and few extra good
spring and fall glits, few tried sows bred
for spring litters. Write or come and see
me.

R. D. MARTIN & SONS, Kansas.

GOETHE'S DUROCS.

25 spring boars for sale sired by my herd boars Attractive Chief, Big Crimson, Wal-nut Wonder and others and out of sows by Ohlo Chief, Kant Be Beat, Nebraska Won-der, Model Chief Again and King of Col.'s II. Write me.

T. E. GOETHE, Leonardville,

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 farm. Come and see my herd at any time.

W. R. CROW, Hutchinson, Kan.

PLEASANT VIEW HERD.

Spring gilts and herd boar prospects for sale. Sired by Tattarrax, the Kansas and Oklahoma champion. College Lad and Pleasant View King. Out of such sows as Pleasant View Queen. College Girl, John's Choice and Bob Orion. Prices reasonable. R. B. MARSHALL, Willard, Kan.

DUROCS "GROWN IN THE OZARKS." Ohio Chief and Col. Blood. Litters by Muncie Chief, Model Prince King of Models, Inventor, the King, I am Advance; several by Col. Carter my leading bred boar. They tre grown right, are good, and we answer all letters of inquiry. C. L. CARTER, Cabool, Mo.

HOWE'S DUROCS.

Special prices on boars and glits sired by Rex K., champion at Wichita fair this year. Also a few by Perfect Improver Grand Champion at Wichita 1907 and 1908. Only a few left, get busy and send in your order.

J. U. HOWE,

Wichita.

Cheice young stock for sale, sired by Kansas Kant Be Beat and Jerey Wender. My sews are of best breeding and good quality. all in the 500 pound class. I can please you. STANFIELD HERD DUROC JERSEYS.

H. C. STANFIELD,

Buffale,

Kansas.

CEDAR LAWN HERD.

Nice lot of spring boars, sired by Long Wonder, Bells Chief, Rose Bell and Top Model, a choice lot of fall gilts open or bred, priced right to sell quick. Write me

F. M. BUCHHEIM.

R. D. 3,

Lecompton, Kan.

COPPINS CREST HERD DUROC JERSEYS.
For sale, a few choice spring bears and one yearling. These are sired by Royal Improver, Perfect Improver, Chief Tattarrax and King Ingomar. Priced right and all first class herd leaders.

H. A. J. COPPINS, Potwin, Kan.

For sale, few fancy spring boars and gilts, 10 fall yearling sows, bred or open, priced right. Gilts are out of Old Variety Mald, she by old Tip Top Notcher. Write your wants. A few bronze turkeys for sale. J. M. YOUNG, Fall River, Kan.

DUROC JERSEYS

SPRING BANK HERD DUROCS. Herd headed by W. H.'s Colonel, the first prize junior yearling bear 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 above named boars for sale. H. WILLIAMSON, Raymond, Kan.

FOR SALE-WORTH THE CANDY, Sows and gilts by Tip Top Notcher, Hanley, Budy K. 4. Ambition bred to 1st prize boar at St. Joe. 15 good boars, sows and gilts all ages, bred or open. Hogs for the breeder or farmer. Write

J. E. Weller, (15 miles from St. Joe.)

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.

WEST RIVERSIDE STOCK FARM-Durocs as good as the breed affords. Ohie Chief, Tip Top Notcher, Ruddy K. IV, King of Cols., Gold Cloud. Blood lines with the individuality to back up this breeding. Write me for prices and let me know your wants. Mention Kansas Farmer. H. E. FISHER, Danville, Harper Co., Kan.

IOWA BANNER HERD

Noted Durocs. Home of W. L. A.'s Choice Goods. Young stock for sale. Dispersion sale Jan. 24th. Sows carry the blood of Proud Advance, Ohio Chief, etc.

W. L. ADDY & SON,

HOLSTEIN CATTLE

Parnell,

BRAEBURN HOLSTEINS.

calves from dams yielding 10,000 of milk in a year and upward. H. B. COWLES, Topeka, Kan.

EAST SIDE DAIRY HOLSTEINS

Offers Arcula Fobes De Kol, born March 31, 1908, sire Hengerveld Sir Fobes, his dam Genesee Hengerveld over 22 lb. Aro, his sire Jessie Fobes Tritomia Duke, whose dam has over 24 lb. Aro. Dam, Lady Arcula Aro; 2.998 lbs. butter 7 days as Junior 2 yr. old, her dam Arcula 2d, over 19 lbs. Aro. Extra good individual, well marked. Price roasonable to prevent winter stabling. F. J. SEARLE, Oskaloosa, Kan.

HOLSTEIN BULLS

at bargain prices for 30 days. Bulls of serviceable age \$75 and up. Bulls 5 to 12 months \$50 and up. Bull calves 1 to 5 months \$30 and up. A few remain to

"ROCK BROOK FARM," Sta. B., Omaha, Neb. Henry C. Glissman, Prop.

MISSOURI Auction School

BIGGEST IN WORLD

And only school where students make bona fide sales of all kinds of property. We only require one-half of tuition down, the other half when you have become a successful auctioneer. No nete required. 80-page catalogue free. Publisher of Auctioneer Joker at 50c per year. Also Carpenterphone Auctioneering Mail Course now ready.

WM. B. CARPENTER, Pres., Trenton.

B. & S. FARM
in their Bred Sow Sale Feb. 3, 1910, at Smith Center, Kan., will offer about 40 selected
Golden Ruler Gilts bred to King of Kant Be Beat 88383, and R. & S. Prince of Cols.
88797. Alse a few tried cows bred to Golden Ruler 80555. King of Kant Be Beat is
2 years old and weighs 800 lbs. Has a 10-inch bone and stands perfect on his feet.
Breeders should "sit up" and take notice of such an offering.

RINEHART & SLAGLE.

Smith Center, 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, Kansas.

I have decided not to hold fall sale and these are for sale privately. They are out of as good sows as the breed affords, and we have them by King of Col.'s 2nd, P. C.'s Col and other good boars. Plenty of herd boar prospects.

FRANK ELDER (Successor to Grant Chapin, Green, Kansas).

Durocs by King of Col.'s 2nd, G. C.'s and G. C.'s Kansas Col., excellent individuals and out of daughters of Model Chief Again, W. L. A's Choice Goods and other like sires. Also an extra yearling by King out out of an Ohio Chief sow. CHAPIN & NORDSTROM, Green, Kansas.

ELK CREEK STOCK FARM DUROC JERSEYS

Two valuable mature herd boars for sale. 100 spring pigs to select from. Best of breeding and individuality. Always something for sale. Come and see my herd or write me.

J. E. JOINES,

Clyde, Kansas

Fair Champion The dam of Kansas Meddler was Prospect E. L. by Perfection E. L. Prospect E. L. was one of as good brood sows as we know of and the offspring from this mating should be in demand by all breeders looking for good hogs. Most of the sows in the fall will be bred for spring litters to Kansas Meddler, and a large part of the offering will be sired by Kansas Meddler. This will be an opportunity to buy some valuabe breeding stock to start new herds. Any farmer or breeder can buy this good seed and use it at a profit in raising hogs both for the market or breeding stock. Send for a catalog and arrange to attend this sale at Pratt, Kan., Saturday, Dec. 11, 1909.

Roan Shorthorn Bull for Sale.

In this issue of Kansas Farmer H. H. Holmes, of Great Bend, Barton county, Kan., is advertising two Shorthorn bulls. One is a roan September yearling sired by Lord Bauff 2nd, and out of Red Lady 5th. This is a pure Scotch pedigree and this young bull will make a valuable herd 'header. Mr. Holmes also has one red September yearling sired by Brompton Knight and out of a Gallant Knight cow. While these two young bulls are all the cattle Mr. Holmes is offernig for sale, we can say he has a valuable herd of Shorthorn cows, including the famous show cow Jessie 2nd, that was sold in Ed Ludwig's dispersion sale. Roan Beauty sired by Sir Robert Burns, out of Antam Lady 2nd, Red Lady 5th sired by Prince of the Butterfiy's and out of Red Lady 2nd. Nina, sired by Gallant Knight out of 10th Norwood Rose, Emma 2nd sired by Golden Day out of Emily 2nd this great cow was bred by S. C. Hanna & Co., of Howard, Kan. Northern Flower is also one of the well bred cows in this herd, sired by Gallant Knight out of Norwood Rose tracing to Imp. Rose of Shuron. If you are in need of a good young bull, write to H. II. Holmes, at Great Bend, Kan., and Kindly mention the Kansas Farmer.

Kindly mention the Kansas Farmer.

Good Shoes for Mother, Father and the Children

There is nothing that adds more comfort to mother, father, or the children, than well made shoes that are really comfortable. The M D. Wells Company of Chicago believe that you are well shod if shod in Wells shoes and they are calling the attention of the readers of this publication to the merits of Wells Shoes which already enjoy a national reputation for quality, comfort, fit and style. This firm takes especial pride in the quality of the Maiden Brand of rubber boots, arctics and rubbers which they manufacture. All the M. D. Wells Company asks is that you make a thorough test of their quality claims both as to shoes or ubbers for mother, father and the children. Their advertisement appears for the first time in this week's issue—we trust that a good many of our readers will look it over and make inquiry for Wells shoes and Maiden rubbers next time they buy foot wear. The M. D. Wells Company of Chicago has published a booklet entitled. "Mother, Father and the Children," which fully covers the shoe question' for the entire family. A copy will be mailed graitis to any of our readers asking for it.

International Stock Food Farm

entire family. A copy will be mailed graitis to any of our readers asking for it.

International Stock Food Farm
Frank A. Holley, Waverly, Neb., writes;
"I have received of M. W. Savage absolutely free of any charge the splendid Dan Patch stallion according to the specified and published conditions of the Forest Patch free hair counting contest ending October 1, 1909, and according to the signed award of the three disinterested judges. I am a farmer living at Waverly, Neb., and my answer was mailed to International Stock Food Co., under date of September 16, 1909. I am delighted with this magnificent Dan Patch colt which was delivered to me sound and in the finest condition without my paying one cent or being asked to buy any goods. In looking over the immense stables on the International Stock Food Farm, I find that Mr. Savage's representation that this was one of the best colts on his farm was verified by a carefui comparison of his large number of colts. I can also say that I was very much surprised at the magnitude of the International Stock Food Farm and its great stables, covered the magnitude of the International Stock Food Farm and its great stables, covered at the magnitude of the International Stock Food Farm and its great stables, covered that from when in the vicinity of Minneapolis or St. Paul. It will certainly be a practical lesson in the profitable raising of horses and judging from my visit, it will be a very pleasant experience as special attention is given to make all visitors feel at home."

Addy's Great Durocs.

A recent visit to the farm of the veteran Duroc Jersey breeder, W. L. Addy, located at Parnell, Mo., revives the writer's interest in that prince of Duroc boars W. L. A.'s Choice Goods, believed by many judges to be the best Duroc Jersey boar now living. Coming from noted ancestors and he himself a show boar and producer of show stuff, it is no wonder that he has held his position and that his get is more in demand this season than ever before. Mr. W. L. Addy is an old timer and it is extremely doubtful if there is a breeder in Missouri or any adjoining state that is better or more favorably known. For several years past his son Earl has been associated with him in the business and in reality assumed much of the management of the herd. The visitor to the farm will be delighted with the sow herd, and as the daughters and granddaughters of sires that have made the breed famous are pointed out to him he will begin to realize how it is that the name Addy is so frequently associated with the best in Durocs. But every great enterprise must have an end or the work at least be shifted to other shoulders. The Addy's have sold the farm which for years has been the home of great Durocs and will on Jan. 24 disperse the herd. Will this be a good place to get the best? There is but one answer. Put this sale on your list and let nothing interfere with your plans. This week we start a card, for the Addy's. If you want a boar write them and mention Kansas Farmer.

6. W. Robert's Record-Breaking Sale.

G. W. Robert's Record-Breaking Sale.

The sale of pure bred Poland China hogs, which was held at Larned, Kan., Saturday, Nov 27, was one of the most notable events ever recorded in the live stock history of Kansas. Few if any sales in Kansas or adjoining states have ever been given upon a more whole-souled and enterprising place. The beautiful little city of Larned is in the center of the rich Arkansas Valley and has gained the reputation of being one of the businest towns in the state. Some idea of the hospitality extended by Mr. Roberts through the courtespy of the Commercial Club of Larned may be obtained from the fact that on Friday evening preceding the sale 75 visitors gathered around the banquet board in the City Hall, guests of Geo. W. Roberts and the entire city of Larned. The oc-

RED POLLED CATTLE

COBURN HERD OF RED POLLS. COBURN HERE OF STATES OF S

AULD RED POLIS.

Herd established 7 years. Choice breeding and individuality. 3 young bulls for sale.

AULD BROS., Frankfort.

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, Kan.

POLLED DURHAM CATTLE

POLLED DURHAMS.

Young bulls. Cows and helfers bred to Roan Here, the Double Standard champion. Prices reasonable. Write for terms.

C. J. WOODS,

BELVEDERE X2712--195058

son of the \$1,500 Grand Victor X1885 159264 heads my herd of Double Standard Polled Durhams. A few extra good blocky, thick-fleshed young bulls for sale. Inspection invited. Farm adjoins town.

D. C. VAN NICE. Richland.

Kansas.

JERSEY CATTLE

Linscett Jersey Cattle

Established 1878. Registered in A. J. C. C.
Any animal for sale.
R. J. LINSCOTT, HOLTON, KANSAS.

HEREFORD CATTLE

9 TOPPY HEREFORD BULLS 9
For sale, sired by Loyalty 16239 by Imp.
Majestic, Armour's great bull. Their dams
rich in the blood of Anxiety 4th. Cherry
Boy, Beau Real and Hesiod. These bulls
are good and will be priced to sell.
W. L. WOOD, Strong City, Kansas.

Jacks and Hereford Cattle.

Stocks for sale at all times. Write us what you want, YATES BROS., Faucett, Mo.

BEAU BRUMMEL 10th 167719

Modern Herefords. Herd bulls, Beau Brummel 10th 167719, Beau Beauty 192235—and Protocol 2d 91715. Robert H. Hazlett, Hazford Place, Eldorado, Kansas.

GALLOWAY CATTLE

SMOKY HILL BANCH

Galloway Herd, headed by Pat Ryan of Red Cloud 20038, Starlight 2d of Tarbreoch 24473 and Valarius 29088. Bulls and helfers for sale from my herd of 180 registered Gallo-

E. J. GUILBERT.

Kansas.

Kansas.

Twelve Galloway Bull Calves

9 to 12 months old, all extra good ones, good bone and coat of hair, most of them sired by "Imported Randolph." Will sell very cheap if taken within 30 days owing to lack of feed.

s. M. CROFT & SONS, Bluff City,

ANGUS CATTLE

Aberdeen-Angus Heifers

Choice helfers in age yearlings past and two year olds. Excellent individuals sired by the show bull Mayor of Oakland. Good blood lines, low prices. McADAM BROS.,

Holton,

GIII

ANGUS BULLS. ANGUS BULLS.

Sons of Champion Ito (our show bull) a son of Imp. Prince Ito—cost \$9,100—and out of the \$3,500 champion cow, Queen Mother 7th of Drumfergue, and RUTGER MIKADO 82395, whose get took first prize at the Kansas State Fair last year, and from the best families of the breed. Also a number of females open or bred and some with calves at foot.

SHROPSHIRE SHEEP A few high class Canadian bred ewes with lambs at foot, sired by our Imported English show ram. The best you can buy anywhere. Write us your wants or come

SUTTON FARM, Lawrence, Kan.

OHIO IMPROVED CHESTERS

Herd headed by Jackson Chief 2, No. 12285, and Kerr Garnett 2, No. 25488. Boars and gilts not akin for sale. Write or come and see them. w. H. LYNCH, Reading.

casion was one of the happlest and most up-to-date in every respect that it has ever been the privilege of the writer to attend. The menu included a little of everything that was good to eat—palate pleasing and substantial as well, and the past prondial talk, while strictly informal, was none the less bright and vivacious. J. W. Moffatt, of Larned who acted as Toastmaster, called attention in his opening remarks to the great importance of the occasion and predicted a great sale for the following day, following Mr. Moffats introductory came short talks by several of the breeders. The live stock paper representatives and others. Hon. E. E. Frizeli, mayor of Larned, made a happy little talk in which he welcomed everybody to the city of Larned. Col. H. O. Carroll of Taylorville, Ill., made a great hit with his speech. He told the story that was designed to illustrate the difference of the pure bred Poland China hog and the common scrub. The well known field men, R. T. Howard, A. B. Hunter, T. P. Sheehy and O. W. Devine each made happy talks abounding in wit and sound logic, but everybody knows that a field man is a clever speech maker, consequently much of the brightness of these gentlemen was taken for granted. Nottling in the line of entertainment was left undone, and it was the genera sentiment that it is a positive pleasure to attend such an occasion. The sale was open at 12:30 o'clock Saturday afternoon. The opening speech was made by Col. John D. Snyder, of Winfield, Kan, in the way of introducing to the breeders of Pawnee county. Col. H. O. Carroll, of Taylorville, Ill. While Colonel Carroll's home is in Illinois, the tribute he paid to Kansas was well received. Then the record-breaking sale was begun and when an average of \$51.75 was made on the sale.

Webb's Good Poland China Sale.

To W. R. Webb of Bendena, Kansas, belongs the credit of having made one of the hest Poland China sales of the year. The range of prices was wonderfully even and there have been mighty few with a higher average. There was a good crowd of breeders and farmers present and these, with the large number of mail bids, made an excelent sale. It is a matter of satisfaction to know that the Kansas Farmer representative brought the largest number of bids that was brought by any one man and also that the only mail bids that were sent in without solicitation came through Kansas Farmer advertising. The offering was a most excellent one and did credit to Mr. Webb than whom there is no more popular man in the county.

Below is a list of representativt sales:

Boars.	75 00
No. 2-J. F. Gamber, Culver, Kan No. 3-William Dittemore, Severage,	
77	44.00
No 6-John Chapple, Troy, Kan	29.00
	80.00
No. 9-W. H. Ryherd, Horton, Kan	85.00
No. 10-William Wilke, Troy, Kan.	26.00
No. 9—W. H. Ryherd, Horton Kan No. 10—William Wilke, Troy, Kan No. 43—Roy Johnston, South Mound,	

No. 14—M. Brayelton, Troy, Ran	26.00
Kan Pote Anderson Severance,	30.00
Tran	29.00
No. 24W. M. Webb, Severance,	35.00
	62.00
No. 27-A A. Ebert, Sikeston, Mo	33.00
No. 27—A. A. Ebert, Sikeston, Mo No. 28—C. A. Kibler, Brenner, Kan. No. 30—C. M. Albero, Severanco,	A DETERMINE
	28.00
No. 31-G. A. Rickleps, Bendena,	30.00
Kan Kan Trong Kan	20.00
No. 35—A. G. Seiter, Troy Kan Females.	
No. 4-Lee Gross, Nodaway, Mo	\$47.00
No. 4—Lee Gross, Nodaway, Mo No. 5—W. T. Wood, Troy, Kan No. 8—George Wedd & Son, Spring	48.00
No. 8-George Wedd & Son, Spring	05 00
Hill, Kan.	35.00
No. 11O. M. Meade, Holton, Kan	37.50 50.00
No. 12-O. M. Meade, Holton, Kan	48.00
No. 16-W. M. Webb	41.00
No. 17—L. V. O'Keere, Stillwell, Kall	41.00
No. 19—Herman Gronninger & Son,	57.00
Hill, Kan. No. 11O. M. Meade, Holton, Kan No. 12O. M. Meade, Holton, Kan No. 16W. M. Webb. No. 17L. V. O'Keefe, Stillwell, Kan No. 19Herman Gronninger & Son. Bendenna, Kan No. 20R. W. Ware, Severance,	
Kan	39.00
No 91—Roy Johnston,	43.00
No. 22-William Baker & Son, But-	12722
ler, Mo C Singer Hiawatha,	41.00
Kan	40.00
No 25-Lee Gross	34.00
No. 26—A. S. Kout, Kenton, Kan No. 24 1/4.—F. S. Cordonier, Wathena,	30.00
Von	25.00
No 2514 William Cordonler	21.00
No 20 A G Solter	27.00
No. 32-O. M. Meade	35.00
No. 32—O. M. Meade. No. 33—R. W. Ware. No. 34—A. S. Kout.	35.00
No. 34-A. 3. Kout	30.00
No. 36—F. B. Klenhoff, Troy, Kan. No. 37—A. S. Kout.	30.00
No. 37-A. S. Kout	24.00
	48.00
No. 39-Lee Gross	
No. 39—Lee Gross	37.00 52.00

AMERICAN ROYAL WINNERS

1st cockerel, 2nd and 3d pullet, 3d hen, out of four entries. Write me for the best in White Plymouth Rocks exclusively.

FRANK KNOPF.

5,000

Orpingtons, Rhode Island Reds, Leghorns, Rocks and Wyandottes for sale. Each variety bred on separate farms from prize winning stock. We will send catalog free. L. M. HARRIS, Nebraska.

CATALPA SPECIOSA GUARANTEED.

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

THE WINFIELD NURSERY CO.,

Winfield.

PURE HONEY.

Extracted in cans of 60 lbs. net amber \$7.80, white \$9. Comb honey in one lb. sections. Send for price list. Nothing but genuine bees' honey. Reference, Kansas Farmer. The Arkansas Valley Aplaries.

CHEEK & WALLINGER,

Colorado.

SHETLAND PONIES FOR SALE-20 imported stallions and a few bred mares. We have recently returned from Scotland with the finest importation of ponies ever brought Write for private sale catalog. CLARK BROS., Auburn, Neb.

Program of the 43rd Annus Meeting f the Kansas State Horticultural Society. First day, Tuesday, December 28, 1909. 11'00 a. m. Trustees will hold short

session,

1:30 p. m. President Hon. Edwin Snyder
will call to order.
Prayer by Rev. Thos. S. Young, pastor
First Baptist church, Topeka.
Annual Report of Trustees by congressional
districts, on Horticultural Conditions and
Progress:

Progress:
First district, F. W. Dixon. Holton.
Second district, A. V. Wison, Muncie.
Third district, F. L. Kenoyer, Independ-

ence.
Fourth district, C. C. Cook, Eskridge.
Fifth district, J. J. Alexander, Norton.
Seventh distrist, C. A. Blackmore, Medicine Lodge.
Eighth district, Geo. A. Blair, Mulvane.
Appointment of Committees on Credentials
of Delegates, New Members, Exhibits, Auditing, Obituaries and Resolutions.
"Growing Pears in Kansas," B. F. Smith,
Lawrence.

Lawrence.
Address of Welcome, Hon. W. R. Stubbs,

Address of Welcome, Hon, W. R. Stubbs, Governor of Kensas.
Response to Address of Welcome, President Edwin Snyder.
Song (Mrs. B. B. Smyth, Topeka.
"Flowers of the Home Garden." Mrs.
John C. McClintock, Topeka.
"That Yard of Ours," Mrs. Cora Wellhouse Bullard, Tonganoxie.
Sccond Day, Wednesday, Dec. 29, 1909.
9:00 a. m. Call to order by Vice President S. G.
Hoover.

Call to order by Vice President S. G. Hoover.
Prayer by Rev. C. E. Holcomb, pastor Lowman Hill Methodist church, Topeka.
Reports of Officers:
Report of President, Edwin Snyder.
Report of Vice President, E. G. Hoover.
Report of Secretary, Walter Wellhouse.
Report of Treasurer, C. V. Holsinger.
Report of Official Entomologist, Prof. S.
J. Hunter.
Report of Official Entomologist, Prof. R. B.

Report of Official Entomologist, Prof. B. B. Hearlee.

Report of Microscopist, Prof. B. B. Smyth.

Report of Committee on Credentials of

Report of Committee on Credentials of Delegates.
Report of Committee on Audit.
"Fruit and Insects of the Pacific Coast,"
Geo. A. Blair. Mulvane.
Trustees for first, third, fifth and seventh congressional districts will be elected at beginning of afternoon session.

1:30 p. ni.
Election of Trustees for first, third, fifth and seventh congressional districts.
"Horticultural Progress and Needs of Northwestern Kansas," J. J. Alexander, Norton.

"Horticultural Progress and Needs of Northwestern Kansas," J. J. Alexander, Norton.

"Horticultural Progress and Needs of Southwestern Kansas," C. A. Blackmore, Medicine Lodge.

"The Prevention of Damage by Late Spring Frosts," F. W. Dixon, Holton.

"Picking. Packing and Marketing Apples," Geo. C. Richardson, Tonganoxie, president and manager Missouri Valley Orchard Co.

7:30 p. m.

Music,

"Grapes," T. V. Munson, Grape Specialist, Denison, Tex.
Music.

"Kansas Forestry," Prof. Albert Dickens, State Forester, Manhattan.

Third Day, Thursday, Dec. 30, 1909.

Call to order by Vice President E. G. Hoover.

"Commercial Gardening," Geo. W. Holsinger, Rossedale.

"Bees, Honey and Flowers," Walter Parlsh, Bee Expert, 'Lawrence.
Untinished Business.

Report of Committee on New Members.

Report of Committee of Obituaries.

Report of Committee on Resolutions.

Report of Committee on Resolutions.

Report of Committee on Exhibits.

Fruit Exhibit:
One hundred dollars has been set aside for awards on exhibits of fruits. The

Fruit Exhibit:
One hundred dollars has been set aside
for awards on exhibits of fruits. The
exhibition is not competitive, but every exhibit of merit will receive an award.

BERKSHIRES

BRAKBURN BEKKSHIRES
Pigs, high-class in quality and breeding.
H B. Cowles, Topeka, Kah.

RIDGEVIEW BERKSHIRES,

2 herd boars for sale 1 two-year-old
by Forest King, other males of different
ages. Sows and gilts open.

MANWARING BROS.,

Kansas.

BERKSHIRE BOARS AND GILTS. " for sale. Long bodied, smooth spring pigs.
The best breeding and excellent individuals.
No culls shipped. Visitors welcome.

J. M. NELSON,

Marysville,

Kansas.

SAVE YOUR HOGS

By using the Ridgway Treatment against Cholera Guaranteed to make your hogs cholera proof for life. Write today for cir-culars, Address. ROBERT RIDGWAY,

BERKSHIRES OVER 250 HEAD."

To select from, Choice boars and females of various ages. Baron Duke 7509 and Masterplece 77000. Spring pigs for sale. We guarantee satisfaction.

Write LEON A. WAITE, Winfield. Kan.

MR. FARMER

Yeu need a Berkshire boar—buy a good one; it pays.

We are offering 50 big boned, growthy fellows ready for business, weighing 125 to 250.

Every one a good one. No culls.
Order today and get first choice at special prices \$20, \$25 and \$30. Satisfaction guaranteed.

SUTTON FARM.
Kansas

NEW YORK VALLEY HERDS' BERK-SHIRES AND SHORTHORNS. SHIRES AND SHORTHORNS.

25 years' experience with these breeds.
Sows bred to and sired by Field Marshal
103300 and Lee's Masterplece 99715. Young
stock for sale. 50 spring and summer boars
and glits at \$25 each; two extra fancy
herd leaders at \$50 each. Bred sows and
glits from \$35 to \$100 each. Write your
wants. Visitors always welcome.

J. T. BAYER & SONS,
Yates Center.

POLAND CHINAS

GRAND PERFECTION NO. 77899. Spring pigs by this bear and out of richly bred dams for sale, either sex, at \$15 each to move them quick. Write at once. JEWELL BROS., Humboldt, Kan.

STRYKER BROS. HERD POLAND CHINAS The greatest show and breeding herd in the West. Write your wants and they will please you. Hogs any age at reasonable prices. Buy the best and make the most. They breed the kind that win the kind you want. Address STRYKER BROS.,

BIG TYPE POLAND CHINAS.

For quick sale few Aug. and Sept. boars, out of grandson of Expansion and Victor X. L., winner at World's Fair, 3 of the boars out of Lady Youtell 4th, the dam of Prince Youtell. Cheap if sold soon.

J. H. HARTER, Westmoreland, Kan.

BOLLIN'S POLAND CHINAS.

We have for sale some very good spring boars. Write and get our prices on an extrahigh bred gilt or bred sow. These are representatives of the very best blood strains of the Poland China breed. We give customers satisfaction, Write today for particulars. John Bollin, Leavenworth, Kan., R. D. 3.

BOARS 15 big, growthy, Poland China boars ready for service. The kind that make good.

CHAS. O. PARSONS, Clearwater,

GOOD POLAND CHINA BOARS.

fine lot of young Poland China boars that were sired by the great Lails Perfection and out of my choicest sows, for sale. All of March farrow and will be sold cheap if taken at once. Must close out as I need the room.

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HIGHVIEW BREEDING FARM. The only registered herd of big boned spotted Polands on earth. Write for catalog of my big bred sow sale Feb. 10.

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SNYDER BROS.' HIGH CLASS POLAND CHINAS.

Either sex, bred sows and bred kilts, priced right for quick sale. Write your wants.

SNYDER BROS.

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For sale now; 25 big smooth spring boars and 25 gilts, mostly by Spangler's Hagley. Some top stuff among these, but all priced to sell.
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20 early spring Poland China glits, tracing to the large type Expansion—will sell them bred or open, a few choice spring boars; prices reasonable; satisfaction guaranteed.

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BRED SOWS AND GILTS FOR SALE.
A few choice sows and gilts for sale bred for fall litters. Write me your wants. I can please you.

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SPRING BOARS AT BARGAIN PRICES.
Out of sows by S. P.'s Perfection thief
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young boars are fine individuals and by
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Headed by my big smooth boar Prince
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Polands and Shorthorns for immediate sale: 15 choice spring boars sired by Ornhan Chief 50906, Priceless King and a good son of Pan Famo. Dams carry the blood of Bell Metal, Logan B., Big Hutch, etc. Also a few good gilts. No culls shipped.

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MELBOURNE HERD POLAND CHINAS. I have a few cheice spring boars and gilts sired by Gold Metal, Hadley Boy and Klever Boy for sale at moderate prices Let me know your wants.

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Ten choice big type boars for sale, sired by Price Hadley and Captain Hutch. W. C. SINGER, Hlawatha, Kansas.

RICHLY BRED POLAND CHINAS. Spring boars and gilts sired by Jewel Perfection 2nd, grandson of Chief Perfection 2nd. Sows equally as well bred. Reasonable

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200 STRICTLY BIG TYPE POLANDS 200
March and April farrow. Bell Metal,
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head our herd. Sows carry the blood of the
biggest sires of the breed.
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TWO BIG EXPANSION BOARS sale, and guaranteed to be O. K. in every way; sure breeders. Expansion Blue No. 182571, farrowed March 5, 1907, bred by W. E. Willey, dam Big Blue, and Bill Expansion No. 145835, farrowed March 17, 1908. Two big type boars offered cheap, as we can't use them any more this season. Also a few spring boars for sale by

Steele City, W. E. WILLEY,

DIETRICH AND SPAULDING

Have for sale some extra good spring farrow. POLAND CHINA BOARS ready for
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always get a herd leader here. If you want
a boar to improve your herd and cembining
size, finish and easy feeding qualities, write
them. Prices right. Pedigrees ready with
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I have for sale a extra choice big type fall yearling boar, sired by Hutch Jr., by Big Hutch, dam Beatrice Logan by O. K. Price. Pig has white face and he is a good individual. Write for complete description and low price. and low price.

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LARGE TYPE POLAND CHINAS.

For sale two nice glits of May farrow by Cowles Tecumseh. Bred sows and glits later.

R. F. D. 2. COWLES, Lawrence Kan. GRAND PERFECTION NO. 77899.

Spring pigs by this boar and out of richly bied dams for sale, either sex, a \$20 each

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SOUTH MOUND STOCK FARM LARGE TYPE POLAND CHINAS

Herd headed by Orphan Chief (50986), John Ling (49897), and Logan Ex. (51718) and contains 30 great strictly large type sows the equal to which is hard to find in one herd; the produce of which I will guarantee to be much larger and with as much quality as any medium type herd. Choice spring pigs and they are very choice, weighing as high as 271 pounds. 90 head of summer and fall pigs ready to ship. Let me know your wants and mention Kansas Farmer.

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several plates of same variety may be exhibited by same person.
Displays by counties, societies or individuals may include all not duplicates which they exhibit, whether already awarded a premium or not.
It is desirable that all fruit be correctly named.

Preserved and dried fruits, or preparations

named.

Preserved and dried fruits, or preparations of fruit, will receive the attention and consideration of the committee.

New varieties will be specially classed

and distinctly reported upon.

New fruits of value, noted varieties or those of peculiar excellence, from anywhere, will receive awards of "Special Merit" or "Honorary Mention."

This display will be made in the exhibition room of our Society, on the fourth floor of the statehouse, west side of north corridor.

Meetings:

All sessions of our meeting will be held in the supreme court room, on the second floor, east side f south corridor in state house.

These meetings are not for the members

These meetings are not for the members one. All are invited to attend.

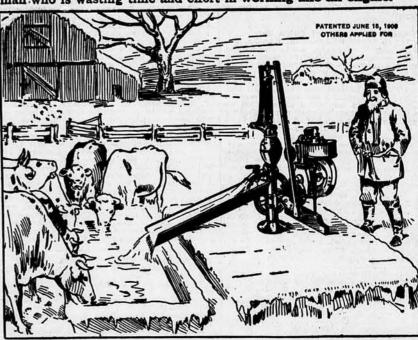
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