VOL. XXXX NO. 10

TOPEKA, KANSAS, THURSDAY, MARCH 6, 1902.

ESTABLISHED IN 1863 81:00 A YEAR

expected that a new era in

the development of a great and fertile region will be in-

KANSAS FARMER

Established in 1863.

Published every Thursday by the KANSAS FARMER CO., - - TOPEKA, KANSAS

SUBSCRIPTION PRICE: \$1.00 A YEAR

B. COWGILL Editor
D. GRAHAM Associate Editor
A. HEATH Advertising Manager



ADVERTISING RATES.

Display advertising, 15 cents per line, agate (fourteen

Display advertising, 15 cents per line, agate (fourteen lines to the inch).

Special reading notices, 25 cents per line.
Business cards or miscellaneous advertisements will be received from reliable advertisers at the rate of \$5.00 per agate line for one year.

Annual cards in the Breeders' Directory, consisting of four lines or less, for \$6.00 per year, including a copy of the Kansas Farmer free.

Electros must have metal base.
Objectionable advertisements or orders from unreliable advertisers, when such is known to be the case, will not be accepted at any price.

To insure prompt publication of an advertisement, send cash with the order; however, monthly or quarterly payments may be arranged by parties who are well known to the publishers, or when acceptable ref-rences are given.

well known to the pathology.

Jerences are given.

All advertising intended for the current week should reach this office not later than Monday.

Every advertiser will receive a copy of the paper free, during the publication of the advertisement.

Address all orders:

KANSAS FARMER CO., 116 West Sixth Ave., Topeka, Kans.

The inquiries that come to this office about the solar motor are very diverse. One man wanted "a copy of the paper that tells about the looking-glass that drives a windmill."

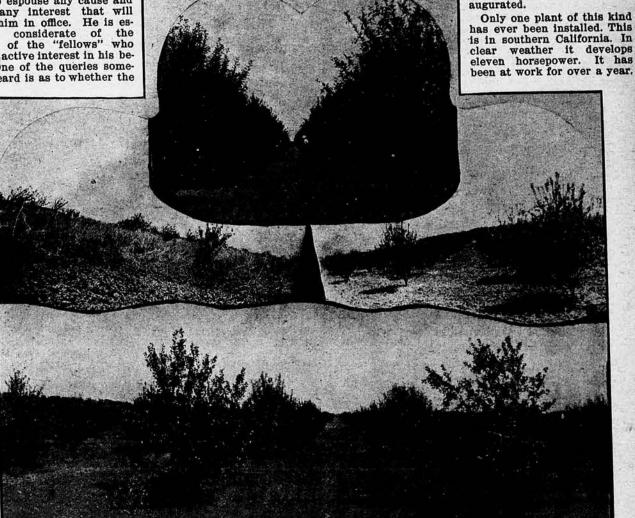
One of the surprises of the season is the demand at the stock-yards for feeders. Surely some farmers have more feed than was expected otherwise there would be small use for anything unfit to kill.

"Will Corn Remain King in the States of the Middle West?" is the title of an excellent paper read before tne Brown County Farmers' Institute, by Mr. Antonio Schalapino. In the published proceedings, by an error, this paper was credited to Mr. Lewis Mellenbruck.

The great and good government of the United States has again drawn upon Kansas for the assistance of one of her bright young men to assist in the expert work of the Department of Agriculture. Mr. Jesse B. Norton, a graduate of the Kansas Agricultural College, who has been employed as an assistant ever since his graduation, has accepted a call to assist in the division of plant-breeding. Mr. Norton will do good work and will of course follow the example of some forty other young Kansans who have received similar calls, that is, he will gradually and surely advance on the merits of his

The season of political conventions opened early this year. Are farmers leaving the political work all to those who make politics their trade? It should be remembered that a candi-

date's highest ambition is to "get there." He is generally ready to espouse any cause and to aid any interest that will "land" him in office. He is especially considerate of the "views" of the "fellows" who take an active interest in his be-One of the queries sometimes heard is as to whether the



Reno County Orchards.

1. Rows of apple-trees a mile long on the farm of L. W. Yaggy. 2. An orchard that never bore an apple. 3. One of W. H. Underwood's orchards across the way which bears well and promises wealth. 4. Another of Mr. Underwood's well cultivated orchards.

farmers are taking an interest "this If they are taking an interest their views must be considered. If the farmers are reported inactive the common saying is that no attention need by given to them. If every farmer would attend every caucus, every convention of his party, and take an active part in shaping the party policy, there would be far less cause to complain about the character of men who get into office and of the measures brought forward. Whatever your party let your influence be felt in selecting its candidates and in shaping its poli-

BLOCK OF TWO.

The regular subscription price for the KANSAS FARMER is one dollar a year. That it is worth the money is attested by the fact that thousands have for many years been paying the price and found it profitable. But the publishers have determined to make it possible to secure the paper at half price. While the subscription price will remain at one dollar a year, every old subscriber is authorized to send his own renewal for one year and one new subscription for one year with one dollar to pay for both. In like manner two new sub-scribers will be entered, both for one year, for one dollar. Address, Kansas Farmer Company, Topeka, Kans.

THE SOLAR MOTOR.

Since the announcement in the Kan-SAS FARMER of February 6, that the Solar-Motor Company, of Boston, will erect a solar-motor plant on the farm of the editor, near Great Bend, and will demonstrate man's ability to harness the Kansas sunshine, making it drive a steam-engine for pumping water and for other useful work, there have been received many inquiries about the novel machinery. These come very largely from Kansas, but the interest is by no means confined to this State. Letters from Mexico show a lively interest in tne neighboring republic.

The editor is able to say that late advices from the Solar-motor Com-pany state that the machinery will be shipped from Boston about March 25. It is estimated that two weeks will be required for transit, and two weeks for erection, so that late in April or early in May some of the Kansas sunbeams are expected to lift water from the underflow in the Arkansas Valley in sufficient volume to irrigate several acres a day.

Fe will propose to the other railroads to make excursion rates from Kansas tering stand can be expected. These points to Great Bend at the opening. samples do not contain Hessian fly.

A great meeting will be held, and it is

When the sun is behind clouds no steam is produced, and consequently no power.
It is the intention of the Solar-Motor Company to have the machinery built in the West. When ready for orders the company will duly advertise the fact in the Kansas Farmer. In the meantime this office will be somewhat relieved if inquiries are directed to the relieved if inquiries are directed to the Solar-Motor Company, Boston, Mass.

WHAT OF THE WHEAT?

Reports as to the condition of wheat are much varied. From all those por-tions of the wheat-belt where heavy snows covered the plant, prospects are fine. But the southern end of the great Kansas wheat-belt seems to have had little or no snow. Advices from Mr. H. D. Compton, Anness, Kans., accom-panied by samples of the wheat show that, for that vicinity, only the most favorable conditions from now on can give hope for even a light crop. Anness is in the southwestern part of Sedgwick County almost on the Sumaner County line. Mr. Compton states that they have not had snow.

The recuperative power of wheat is

With characteristic public spirit the very great when conditions become fageneral passenger agent of the Santa vorable, but we judge from the samples received that at best a very scat-

to make a half or even a quarter crop, the opportunity to sow alfalfa among wheat this spring and possibly get a light crop of hay next fall in addition to the part crop of wheat may make the season's production from this land profitable if we shall judge by some experiences of this procedure recently published in the Warrier Florida. cently published in the Kansas Farmer.

If the wheat shall prove to be so badly killed that as to be not worth saving the farmer has still the opportunity to plant the land with corn if he does not care to sow so much alfalfa.

The anxious time for the wheat is now at hand. If March shall give us plenty of moisture the wheat will revive in a manner to surprise even oldtimers, but if rain shall be deficient and winds high there will be much disappointment in portions of the State which have not been favored with

Agricultural Matters.

What the Drouth Should Teach Kansas Farmers.

GEO. L. CLOTHIER.

In reading the interesting columns of the Kansas Farmer, I have noticed that the topic of the recent drouth is a fruitful source of discussion. The sign indicates a healthy public sentiment, and yet it seems to me that the most valuable lessons that ought to have been taught by the experiences of last summer have not been touched by the writers upon the subject.

The first great lesson that ought to

have been inculcated into the minds of Kansas people is that it is folly to depend wholly upon one crop. There are counties in the State where the leading crop for the past forty years has been corn, but in which corn for feeding the farm animals through the winter is get-ting to be extremely scarce at this time of the year. No amount of argument in the past could induce the majority of the farmers of the corn-belt to diversify their farming, and now they are suffering from the effects of the drouth much more severely than their brethren in the western counties who have long ago learned to supplement their corn crop with drouth-resistant crops such Kaffir-corn and alfalfa. as Kaffir-corn and alfalfa. If every Kansas farmer who grows corn had planted one-half of his corn-field to Kaffir-corn during the season of 1901 and had tended the crop for its grain instead of fodder, I have no doubt but that the State would have produced as If every that the State would have produced one

You Can Get Well

Without Risking a Penny.

WON'T YOU MERELY ASK FOR MY BOOK?

I have written these books after a lifetime's experience to tell you my way of curing chronic diseases.

I have tested my method by thou-sands of bedsides in hospitals and homes. It accomplishes what no other treatment can do. It is so sure that in any case, no matter how difficult, I take the entire risk.

No money is wanted. Merely write me a postal for the book. I will send with it an order on your druggist for six bottles Dr. Shoop's Restorative. He will let you take it for a month, and if it does what I claim the cost is \$5.50. If it fails, I will pay him

No other physician ever made such an offer, and none ever will. There is no other treatment that could stand such a test. But I have learned by experience that 39 out of each 40 who get these six bottles pay for them, because they are cured.

in forty I fail. Sometimes the disease is too difficult to be reached in a month. Sometimes an organic trouble, like cancer, makes a cure impossible. But 39 in each 40 who take the remedy get well. The other one

pays nothing; the treatment is free.

Won't you write a postal to learn about a remedy like that?

My success comes from strengthening the inside nerves. I bring back the nerve power which alone operates each vital organ. I make each organ do its duty by giving it nerve power. Positively there is no other way.

It is a pity for a sick person to neglect an offer like this.

Simply state which book you want, and address Book No. 2 on the Heart Book No. 3 on the Kidneys Dr. Shoop, Box 529, Ra-cine, Wiscensin.

Book No. 4 for Women Book No. 5 on Rheumatism Book No. 6 on Rheumatism

hundred million bushels of feed instead of forty million as was the case. one southwestern county, I am personally acquainted with a ranchman who raised enough Kaffir-corn grain to warrant him in continuing his customary steer-feeding operations, although he did not raise an ear of corn on a large area planted. The corn crop of this county was reported to have yielded three bushels per acre while the Kaffirded corn grown by our ranchman yielded him twenty-five bushels per acre. After all that has been written about Kaffircorn, it seems that the majority of Kansas farmers are still ignorant of its Another crop that has saved many a

farmer from bankruptcy, and is very slow to gain recognition in some parts of the State is alfalfa. Brown County reported a corn crop in 1901 of 122,585 acres which yielded thirteen bushels per acre. The same county reported only 534 acres of alfalfa, or one acre to 229 acres of corn. When Brown County farmers learn to appreciate the fact that a ton of alfalfa hay contains as much digestible matter as twenty-three and one half bushels of corn, they will begin to comprehend what they have lost in a single season by their refusal to recognize the merits of alfalfa. If half the area of the Brown County corn-fields had been in alfalfa the past year and had yielded only two tons of hay per acre, the feed obtained from area would have been equivalent to 2,880,748 bushels of corn, and the total feed for the county would have been equivalent to 3,627,550 bushels of -almost two and one-half times as much as the crop actually harvested, or about thirty bushels per acre for the whole area devoted to corn. At present prices this would have been a gain of more than one million dollars to the farmers of Brown County.

The total area of the State of Kan-

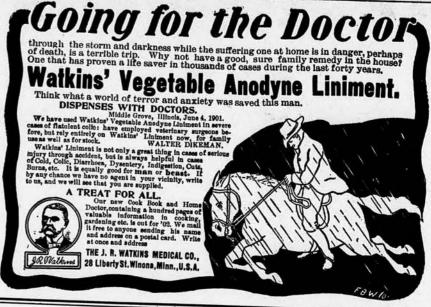
sas in round numbers is fifty-two million acres. One-tenth of this area could be devoted to the growth of alfalfa without appreciably diminishing the area in cultivation in other crops. Onetenth of Kansas would mean 5,200,000 acres. The present area devoted to this crop is only 319,142 acres or one sixteenth of the tenth which ought to be devoted to alfalfa. If Kansas had grown 5,206,600 acres of alfalfa in 1901, a yield of two tons per acre would have amounted to 10,400,000 tons, equivalent in feeding value to two hundred and forty-four bushels of corn. At an equivalent value of 75 cents per bushel for corn, this yield of alfalfa hay would have added more than \$180,000,000 to the income of the Kansas farmers for the single season of 1901. An abundant rainfall will produce a crop double the amount allowed in the foregoing calcu-It is safe to assert that one tenth of the State of Kansas devoted to the growth of alfalfa, if the crop were evenly distributed over the State, would double the value of every acre of land in the State. Here is a greater bonanza than the gold mines in all the world and yet how few of the Kansas people comprehend this fact! Will the drouth of 1901 teach Kansas farmers to diversify their crops?

From Wilson County.

EDITOR KANSAS FARMER:-I been reading Brother Norton's letters for a long time, and take quite an in-terest in them, as I lived neighbor to him in old Allen County for ten years. I think his article stating that all is not sunshine in Kansas at present hits the situation about right. He says farmers are approaching a critical time in their lives. It is my opinion we have been in a critical condition for six months, but some of the farmers are just finding it out. But I believe that daylight is ahead; feed, except wheat, is cheaper than it was last fall, and by the way I think Kangas wheat by the way, I think Kansas wheatgrowers are going to learn more about olding whe than lots of them thought it possible for one man to know.

Corn is selling here at 70 cents; it sold for 80 cents two months ago. Rough feed is plentiful, and I don't see why Kansas can't live through; at least

let us live in hope. Brother Norton speaks of himself as an experimenter, yet in none of his hard-time articles this winter has he mentioned anything about the cheapest hog-feed we have. At present prices of everything, with oil-meal at \$1.60 per hundredweight, and shorts at \$1.25 per hundredweight, the oil-meal is the most economical as well as the best



shorts, and it is the best and cheapest mixture I can find. Sometimes when I run out of ground wheat, I feed the oilmeal straight, for a week at a time, with a little corn to balance the ration. My hogs are all in fine shape; brood sows are looking fine, and the shoats will be ready to go on full feed as soon as hot weather comes.

Brother Norton as well as Brother Walters, of Highland, wants to know what to sow for hog pasture. If there is anything that beats wheat and oats for early pasture and rape for all summer pasture, I have never found it out; but there is one place people make a big mistake, and that is in sowing rape on thin land. It wants to be sown on manured land for best results. Do not touch the land until ready to sow, which ought to be from the first till the middle of May. Then plow good and deep and pulverize perfectly fine. Sow it thick, and in two or three weeks you can let the hogs on for an hour every day.

I never let my hogs run on it, but turn them on morning and evening just long enough for them to get well filled. By doing this a half acre will summer quite a bunch of hogs. My experience s that cane while young and green is the poorest pasture of anything I ever tried. A hog will starve to death in it when three inches high, if fed nothing else; but if sown early and let get matured, it is a fine fall pasture, when first putting hogs on full feed.

I see lots of the brothers are inquiring for drouth-resisting crops this year.
Brother Norton among the rest. Just go ahead and plant what corn and Kaffir-corn you think you can tend, and let the other fellows hunt the drouth-resisting crop. Remember what Kansas has done and what she can do again. Four years out of the ten I lived by Brother Norton, the old Black Valley he lives in would have made a very fair rice plantation. I could go to Moran any day through May or June and see Brother Norton out ditching. I think what we will all want before the spring is over, will be a water-resisting crop, at least let us act like we had faith in Kansas, as long as we have to stay here. CHAS. MITCHELL. Buxton, Kans.

Rermuda-grass.

Heavy grazing of the native grass pastures in Oklahoma has weakened them so that they are no longer sufficient to carry the farm stock through the summer. Many farmers have broken out more land than they find it profitable to plant to annual crops and are seeking some grass that will furnish pasture through the summer. The Oklahoma Experiment Station at Stillwater and many farmers throughout the erritory all sorts of grasses and of the entire list, none seem to be equal to Bermuda-grass for pasture. This grass resembles buffalo-grass except that the stems and the leaves are larger and the growth much heavier. When once well established, Bermudagrass is green and growing from spring until heavy frosts come.

To start Bermuda-grass on a wornout pasture, disk the sod in late April or May, then scatter short pieces of the roots of Bermuda-grass over the surfact and disk again. The disking in itself will be of benefit to the native grasses and by this plan, Bermuda-grass may be started and will quickly spread.

feed we have. If Brother Norton will has been in cultivation, disk or harrow take eight quarts of shorts instead of that sixteen he speaks of, and add four three feet apart using a single-shovel To start Bermuda-grass on land that you want, and address Book No. 2 on the Ridneys Book No. 3 on the Ridneys Book No. 5 on Rheumatism Book No. 5 for Men Book No. 6 on Rheumatism Mild cases, not chronic, are often cured by one or two bottles. At all druggists that sixteen he speaks of, and add four three feet apart using a single-shovel plow, drop pieces of roots by hand about a foot apart in the rows, and cover with a double-shovel plow. If weeds thave used ground wheat instead of get ahead of Bermuda-grass, cultivate E. W. Grove's signature is on each box. So.

a few times. When the grass is once started, it will take care of the weeds. Seed or sod of Bermuda-grass may be obtained from Southern seedsmen.
A good plan is to prepare a piece of good land, from one-eighth to a quarter of an acre, sow one pound of the seed, costing about one dollar. If weeds are kept out of this patch during the first season, it will furnish a supply of roots with which to start the grass in pas-

Bermuda-grass when once started is hard to eradicate. In the northern part of Oklahoma, it is sometimes winter-killed, but 17° below zero was withstood at Stillwater without serious harm. Of course, the better the soil, harm. Of course, the better the soil, the better this grass will grow, but it is not particular and will start and grow almost anywhere. It is particularly valuable for stopping washing of the soil in ditches and along embankments and at least merits a trial at the hands of every Oklahoma farmer.

Rape for Early Spring Feed. PRESS BULLITIN OKLAHOMA EXPERIMENT STATION.

Each season's results at the Oklahonia Experiment Station give further evidence of the value of the rape plant as a source of green feed in this country. Not only has it proven a most desirable spring and fall pasture crop, but a crop spring and fall pasture crop, but a crop that will furnish a large quantity of green feed during such a drouthy summer as that of 1901. The plant lived through the wild winter of 1900-01 but the zero weather of the past winter killed all the plants.

The rape plant will be one of the first plants available for feed in the spring and a large area should be put out, as feed is scarce and high priced. The value of the plant lies in the fact that it will furnish a large amount of green feed in a short period from the time of planting. The plant resembles the cabbage in texture and color, but the growth is erect and two to three feet tall. Good rich soil is necessary for a large growth and should be put in fine

tilth before seeding.

The plant is proof against frost and may be seeded the last of February or proof against frost and may be seeded the last of February or proof to the february of the f early March in Oklahoma. Broadcasting will do for temporary patches but if the crop is wanted to last through the summer it should be in drills and cultivated. Do not pasture too close if continuous growth is desired. For broadcasting use three or four pounds per acre. In drills one to one and one-

half pounds will be required.

Prof. Thomas Show says that ten sheep may be fattened on one acre of rape in Minnesota. Twenty-three tons of green feed per acre have been taken off at the first cutting at this station.

Johnson-grass in Southeastern Kansas.

EDITOR KANSAS FARMER:-What is pencilaria? It is advertised simply as the wonderful new fodder-plant, tioning the height it will grow if cul-Whether this newly advertised plant is of the Johnson-grass family is not quite clear. Johnson-grass in this part of Kansas grows eight or nine feet tall without cultivation and may be cut two to lour times for hay during the growing season. The seed was introduced here by being scattered from cars going north from Texas, and as yet the grass is confined mainly to patches growing in the loose dirt piled along the sides of the road-bed of the railroad. Four years ago during my absence of two years in the East, two

in size found an agreeable habitation in the north end of our truck patch 100 yards away from the railroad.

I am letting it live and grow there for the present, tolerating and watching it to see what it is going to do. I gathered one crop of seed and have it safely stored in a box. The plants seem to want to spread from their big, fat-looking roots, which run along beneath the surface of the ground. I do not permit the seed to mature either in this plat or along the railroad, preferring to confine it to a limited area until I see if it is a prop-

er plant to encourage in Kansas.

I think if plowed just at the beginning of freezing weather, its roots would freeze out and die if they were turned up by the plow. But is it un-eworthy to live? Has any one in Kan-sas a field of Johnson-grass? Kimball, Kans. Thos. D. Hubbard.

Will some reader who has tried pencilaria give his experience and observa-

Planting Kaffir-corn on Sod With a Riding Lister, Etc.

EDITOR KANSAS FARMER: - A description of methods pursued by western Oklahoma farmers may answer your inquiry from Enid and be of interest to

For planting in rows like corn use the following method: After removing the share and mold-board from a riding lister, a shoe from a check-rower cornplanter, having a fine cutter projecting downward, is attached to the beam of the lister in such a manner that the seed-spout can be conducted to the heel of the shoe. Any ingenious blacksmith can arrange the details.

This makes an almost ideal implement for planting in rows on new breaking, of any kind of seed the lister plates will drop. It is comparatively easy work for a man with a team of two horses to plant six to ten acres a day, driving them astride every third fur-row. Many, who want the maximum quantity of forage plant as follows: After thoroughly disking, the seed is

put in with a press drill, which has first had every alternate shoe removed and corresponding hole in seed box closed. When a half bushel of seed is used to the acre, almost every small stalk will mature some seed. We think this coarse hay, mowed, cured properly, and put up in large cocks, makes the best forage and most obtainable from the Kaffir-corn plant on sod.

CLARKE D. RACKLEY. Medicine Lodge, Kans.

Kaffir-corn.

Editor Kansas Farmer:—Three years ago I wrote a letter to the Kansas Farmer telling my experience with Kaffir-corn. Some of my neighbors said it is a poor man's crop and that they would raise Indian corn, but they entirely failed last year, while I had a good crop of Kaffir, both on old ground and sod. My Kaffir made twenty-five bushels per acre. The fodder was also good. I planted April 11; when the drouth struck it it was not in head, but did not dry up; stood there until rains came, and started to grow again and matured before frost.

I plant with a two-horse corn-planter with drill plates. I prefer this way to listing in sandy soil as the plant is easily covered while small. I cultivate the same as Indian corn; harvest with either wheet or corn hinder; shock entitled. er wheat or corn binder; shock until

dry and then stack the same as wheat.

There are other methods of taking care of it, but I prefer this one as you save all the forage and the grain becomes dry and does not heat. be threshed and put in the bin with safety. I mix one-fourth Kaffir-corn with cane to sow for hay. The Kaffir has a stiffer stalk and the cane will not lodge so badly. I think it makes better feed than cane alone. I plant the same on sod as on old land, being sure to get on plenty of seed, as one is not so apt to get a stand on sod as on old ground. I prefer the white variety.
Tonkawa, Okla.
L. Yount.

Alfalfa Not Suited to Overflow Land.

EDITOR KANSAS FARMER:—I have some low creek land that overflows occasionally, but the water does not stand on the ground. As soon as the creek goes down the ground gets dry. I would like to know if alfalfa will do well on such land, and how fruit-trees would do on such land.

Yates Center, Kans. J. F. MOERER.

Alfalfa is not well suited to overflow land. When young it drowns very easily. When several years old it is less easily killed in this way. Fruit-

Stops the Cough and Works off the Cold. Laxative Bromo-Quinine Tablets cure a cold in red day. No Cure. No Pay. Price 25 cents

trees will stand some overflow if the water comes only about the trunks. There are some reports of extraordinary crops of apples following overflows of short duration. But we should prefer higher ground for the orchard. Such bottom-land is well adapted to the growth of catalpa timber if the trees can be given such a start that they may not be submerged.

Farming on Shares.

KANSAS FARMER: -What would be the proper division of profits

one party to find farm and means to run it, and the other party to do the work?

J. B. McClure. Alva, Okla.

Where this plan has been pursued it has usually been customary for the party who owns the farm and furnishes the means to run it to receive two thirds, and the party who does the work to receive one-third of the products after gathering, the division being made on the farm.

Johnson-grass-Will Cattle Eat It? EDITOR KANSAS FARMER: -Will some of the writers on Johnson-grass please tell us whether or not cattle will eat it when green? If so, I rather like the idea of its being difficult to kill out, as I have some ground that washes badly that I would like to get set in something of a permanent nature.

Burt, Kans. W. M. BALIS.

Borticulture.

Growing the Peach from Seed.

FIDITOR KANSAS FARMER:-It is not generally known that there are some peaches which come true from seed. One of the most important of these is the Elberta. The seedlings grow rank when planted in rich, moist soil and cultivated, and bear fruit equal in size and quality to its budded parent.

The seeds may be saved at ripening time, or they may be purchased in peck or bushel lots from seedsmen. They may be planted in permanent rows in the fall or early spring, or may be dropped thickly in a propagating furrow and transplanted the second year. Should the seeds be planted in the spring the hard shells should be cracked and only the kernels put in the ground.

The young trees should be cultivated from the time they come up, and not allowed to become overrun with weeds. They should bear some the third year if well cared for. C. B. Thurman, Kans.

Trees Around the Orchard.

EDITOR KANSAS FARMER: -Will you please tell me through your valuable paper what trees would be the best to plant around an orchard for a windbreak. I intended to try the Russian mulberry. Do you know of any tree that will grow faster and larger? How should I plant trees for a windbreak? Should I get them three or four feet high at the nursery? LEWIS REEP.

Yates Center, Kans.

No other tree grows as rapidly as the cottonwood. But the cottonwood is a bad neighbor for other trees. It grows to a good height and makes a fair protection if planted in broad belts. The Catalpa Speciosa grows rapidly, and attains a greater height than the Russian mulberry. It is a good tree for all purposes, and is a more desirable neighbor than the cottonwood. Yearling seedlings are more economically planted than older and larger trees. The latter are very well if only a few are to be planted and one is in a great hurry for the protection.

Water Lilies for the Amateur.

The cultivation of water lilies in tubs is very simple. A wooden tank similar to those used in cisters, only much shallower, is an ideal receptacle for them if six or eight feet wide. oil barrel sawed in half makes two good tubs for the smaller sorts. such a barrel is used, burn it out well before putting any plants in it, to prevent possible injury from the oil which has penetrated the wood. * * * Fill the tub two-thirds full of good garden soil, or mucky matter obtained from ponds. Plant the roots of your lilies in it, covering them to the depth of about two inches. Then fill the tub with water. It should be placed in a warm and sunny location. The appearance of a tub made from a barrel can be greatly improved by giving it a coat of paint of some neutral color. I would advise sinking all tubs in the

ground, however, if it can be done, as the effect will be much better.—Eben E. Rexford, in Home and Flowers.

Aphis.

EDITOR KANSAS FARMER:—I have examined the buds of the Champion and Crosby peach and also of a very hardy seedling, and have found them all dead. What is a sure remedy for cabbage and cucumber aphis? Macksville, Kans. D. H. WELCH.

The cabbage aphis and the cucumber aphis are not the same, but are closely related, and can be killed by the same kind of treatment. Experiments conducted here last year showed that whale-oil soap, dissolved in water at the rate of one-half pound to two gallons of water would kill all lice that were wet by the spray. If the plants are small the best method would be to apply the spray with a sponge of ply the soap-suds with a sponge or cotton swab. This method is a little slow, but it usually pays in the end. Whale-oil soap ought to be kept in stock by most stores that handle oth-

er insect poisons, etc.

Jesse B. Norton,

Assistant Entomologist Kansas Ex-

A Lost Peach.

EDITOR KANSAS FARMER: -Twenty five years ago I had a peach known as Morris White, a very large, white, cling peach, ripening about October 10. The original trees are dead, many years since. Is there a reader of the Kansas Farmer who can tell me where I can get some more of the same? I would be thankful for any informaton. WM. RAMSAY.

Solomon, Kans.

Box-elder Sugar.

EDITOR KANSAS FARMER:-In a cent issue of your paper, A. H. Griesa, of Lawrence, suggested making syrup from box-elder sap. Now, if he will tell us when and how the trees should be tapped and how much the sap should be boiled, it would greatly oblige a subscriber. F. W. KURTENBACH. Herrington, Kans.

The Apiary.

Conducted by A. H. Duff, Larned, Kans., to whom all inquiries concerning this department should be addressed.

Bees in Sumner County, Kansas.

EDITOR BEE DEPARTMENT: - Isaw your request for reports from persons keeping bees. I started with a stand that I took from a bee-tree one year ago last spring; they threw off three swarms last summer; and while cutting alfalfa last harvest I found another swarm on the ground in the alfalfa, and now I have five stands. They all seem to be doing well—at least every warm day they were out in goodly numbers. I use the standard hives. Last fall I obtained chaff-cases, and put them on the swarm I got last. I examined and found this one was short of honey for the winter, and I took some broodframes containing honey and put in sufficient stores for them to winter on.

got about seventy pounds of honey from the others in the way of surplus.

What should be the first thing to be done with them in the spring? Will it has necessary or desirable to take the be necessary or desirable to take the chaff-hive off? I have tried several times to find a queen in some of the hives, but have not succeeded. What is the best method to pursue in finding them? I would be pleased to have one of your bee-books. W. W. Wicks. of your bee-books.

Your bees seem to be in first-class condition and the thing to do this spring is to see that they do not run out of stores. As soon as the weather is warm, or warm enough so that the bees can fly most of the time, feed up your colonies until they have fifteen or twenty pounds of stores. Feed granulated sugar made into sirup, not too thick, but of good body. If they have the amount of honey you speak of they do not need feed except later on in

Handy Farm Wagon ELECTRIC WHEEL CO., BOX 46. QUINCY, ILL

spring about the last of April or ing May when they are breed Springing bees in Kansas is not so as in many other localities, for we quently have weather that is very med against the blossoms secreting hold This does not happen every spring, very frequently it does. After the falfa comes into bloom there is much danger, but before this time is critical period. It is easy to see if the need honey by looking through at frames, and if so lose no time in fil up the combs, as a scarcity of now, will check breeding, and colonies will be the result.

If your chaff-hive is so arranged you can use your surplus boxes on-conveniently, you may let it remainuil summer; if not intended for this his then take it off after the weather of warm or when the colony is readyfor surplus boxes. This is usually wheiusfalfa first begins to bloom. You can easily find the queens dure

they begin to lay eggs. They are sey easily detected by their size, bo a much larger than the worker bee. bull. will always find them on or near olid little patches of brood on the cokin. You will find tiny white eggs in did cells, and here is where the queen calf. fers to say, and she will be there if hite so ladly excited as to leave the co and so tadly excited as to leave the co and and this is seldom the case. After cince see a queen, you will have hort-little trouble finding the second one ford, you become accustomed to her it Angels and your every will cotch her at a plantage. and your eye will catch her at a glehave Very often queens will be missin can, spring from some cause, and one sh The be able to find out for a certainty white the queens are all right. The preso the of brood in the combs is evidences a the queen's presence and that she the all right, and this is all the satisli not tion, the expert wants. If a colore are queenless in spring, it will be bit are short time until the colony will bas the tinct. The remedy is to either queens for them, or unite them ton as

other colonies that have queens. ters of Some people are foolish enougisell a let swarms escape them from fear hun-being stung, and even when they es this swarms as Mr. Wick found his, ecause do not think it worth the while to a more care of them, and thus they lose allificauable start in bee-keeping. A sysk him of bees is worth as much as a new y sell? ten dollar bill, and one should Kansas the same effort to secure it. too ab-

Comb-Honey not Manufactured no dis-A statement has been going ference rounds of the press to the effect well as hearly all the comb-honey on the That is, ket is manufactured by a "cute cine," that the combs are filled glucose and capped over by a medical process. The facts are, there is a manufactured comb ES of

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ON A UGGY The illustration in this advertisement is a sample of the savin you can make in buying a buggy direct from our factory. You can buy surreys, phætons and other high grade vehicles at equally lo prices. We save you two profits—charging net factory cost with a moderate profit added. We also sell harness, etc., at factory prices. With each purchase we give a broad guarantee. If the purchase is not satisfactory in every particular, you can return it to us and we will pay freight charges both ways. Send for free illustrated catalogue.

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ey anywhere in the United States, and in proof of this the publishers of leading bee-journals of undoubted responsi-bility offer \$1,000 for evidence to show that comb-honey is manufactured, or that such an article is for sale in the open market. Although this offer has been out for fifteen years and has been duplicated by other responsible persons connected with the industry of bee-keeping, no one has ever seen fit to take it up.

The United States Department of Agriculture has put on several published statements denying the existence of manufactured comb-honey, and the American Grocer, the leading trade organ of its class, assures its patrons that all the comb-honey on the market is absolutely the produce of the bee.

Brange Department.

"For the good of our order, our country and man kind."

Conducted by E. W. Westgate, Master Kansas State Grange, Manhattan, Kans., to whom all correspondence for this department should be addressed. News from Kansas Granges is especially solicited.

NATIONAL GRANGE.

Master......Aaron Jones, South Bend, Ind Lecturer......N. J. Bacheller, Concord, N. H Secretary.. John Trimble, 514 F St., Washington, D. C.

KANSAS STATE GRANGE.

Master's Address.

EXTRACTS FROM WORTHY MASTER HORTON'S ANNUAL ADDRESS AT STATE GRANGE OF MICHIGAN.

It should make glad the heart of every true patron to know that unparalleled progress has marked the work of the order since last we met. No State in the Union has equaled Michigan in grange progress. The farmers of our State are now converted to the principles of the grange, and thousands are declaring for its support. All people recognize and are ready to speak favorably of its worth. We are banded together to improve the social, intellectual, financial, and influential condition of our members.

What a broad and grand platform! No wonder that the grange lives and grows strong through the tests of time. The most intelligent and thoughtful of all people can but laud our purposes even if they are not coworkers with us. The grange is for all people directly interested in agricultural pursuits. large number of our population, which is nearly one-half of all our people, live more or less isolated and must of necessity provide ways and means for overcoming their natural environments, which do not provide adequate social and mental opportunities.

Through the grange their desires are attained, and their ambitions satisfied. Nearly thirty years of experience has resulted in placing the grange hall alongside of the country schoolhouse as an institution of primary importance.

Socially the grange ranks high among the many organizations of the day, and in some respects it is superior to many in that its membership is open to the husband, the wife, and the children, with equal opportunities offered. Thus conditions are founded for a social culture, clean and broad in its character.

Intellectually the grange is a great success. Through its opportunities for the encouragement of thinking, reading, writing, and speaking, the men and the women of the farm are fast becoming competent to act well in their respective parts in the many public duties which are a part of American so-ciety and citizenship.

Financially our order teaches the very essence of success; a better uni farming and home-making through fortnightly discussions of topics relating to the different parts of our industry, constant encouragement to shelter farm tools, and a better cultivation of the soil; dis-

couragement to the credit system, and useless losses of money through litigation; a better understanding of business methods, and the ambition to take a broader advantage of the opportunities of the business world in selling and buying.

Influentially the grange is doing a great work. Through its opportunities for discussion and its businesslike methods of bringing a great power to bear upon a single proposition, the farmers of the State have come to the front rank in influence upon questions of public importance. Although strictly non-partisan, no politician or political party can consider it other than suicidal, to declare our acts in opposition to the express conclusions of the grange. As a direct aid to a maintenance of a strong and healthy influence, the grange is withal a creator of a healthy public sentiment and opinior, which is the correct beginning for the enactment of just laws.

How Can the Grange Exercise a Greater Educational Influence on Its Members?

In order to make any remarks of practical service I will, if you please, assume that the worthy lecturer had in mind, not the National Grange, not the Oergon State Grange, but our own subordinate grange or the Mono grange.

The few hours we spend together will exclude some essential points of education; they are religious education, political education, and primary or school education (if we except a little spelling, just for fun). Then what is left? First, education on doubtful points of husbandry and housekeeping; second, social association with congenial folk, whom we otherwise could not meet or associate with; third, practice in addressing an audience.

Taking the first point of our business difficulties—I believe the question box and the answers called out thereby to be very useful and instructive. I would not encourage the reading of long articles or pamphlets to which we can all have access on agricultural methods and discoveries; it is sufficient in dis-cussing a topic to indicate what authorities have been studied and where the information may be obtained first hand; but the opinion of any granger on these matters can not fail to bring about useful discussion and advance our grasp of the topic selected.

Very important is the next point of social association. As a class we are isolated more than our fellow citizens in settlements, villages, or towns. Hav-ing regard to the necessity of making a living and attending to business, private and public, it is not practicable for us to visit other than our near neighbors and relatives. Some of these even we do not visit with, as they are not congenial to us, no fault on either side, but a different view of life and its duties, so our visiting list is small but large enough to take up much time

It is not likely that, except by means of our grange, many of us would be-come acquainted with each other, and thus the grange extends the number of our acquaintances and friends with common aims and objects, with, however, a great variety of opinion on all topics admitting of difference, but, nevertheless, a firm and compact bond of union of sentiment on certain central and important truths as set forth in our "Declaration of Purposes.'

Our third educational point is that of addressing an audience with all which that implies. Lord Bacon says that "Reading maketh a full man; conference a ready man; and writing an exact man.

We often meet a person whose ideas would be (on practical points) of general service, but how seldom can such a one, not having acquired the art of speaking and thinking while on his feet, convey his opinions so as to be of avail. To learn to place our views clearly before our friends whom we desire to convince, is of the greatest service. This our grange teaches. I do not think that oratory as now employed is of any service at all, but frequently serves to advance and sustain false issues by an appeal to our feelings rather than to our God-given faculty of rea-son. Not likely nor desirable is it that any of us will become orators, and bore each other with windy talk, but to state your case clearly and reasonably, to listen to an opponent's criticisms and reply to each, one by one, when you are allowed a reply, and in this with temper and tact, to carry your audience with you is business, just business. This our grange gives us opportunity to dc.

The rules of parliamentary debate

I would here urge our officers to cease to read their part of the ritual and by memorizing and speaking it, render it more impressive. The grange ritual is shorter and simpler than that of the parent orders, none of which allow their officers to read from a book, but expect them to "speak their pieces." We might begin this gradually, allowing the use of the book to those not able to commit to memory what they have to say.

The singing should form a very at tractive part of our ritual, and more individual attention is desirable; many of our members can sing in parts, and we should expect them to devote their attention to making this part of our ritual more prominent and educational.

I hope I have shown that our possibilities of grange education, although very limited, owing to short session at monthly intervals, nevertheless allow of very useful results if we take advantage to the full of our opportunities.

The fullness of mind to be gained by reading must be gained elsewhere, the exactness coming from writing must be acquired at home on topics selected by the worthy lecturer, but the readiness of the speaker can only be obtained by constant practice, and this valuable facility our grange affords. Say to all members, "You have an idea—good—then select suitable words to clothe the idea, and then get on your feet and give your fellow patrons the benefit of your matured thought."

Perfect freedom in debate may be allowed, but we should always make allowance for an opponent's differing views, and urge our own with medera-tion. Intolerance is perhaps the most deadening quality in debate and a great bar to improvement; and finally, in our debates, "May difference of opin-ion never alter friendship."

I have omitted perhaps the most important condition to the realization of the benefits to be derived from our grange meetings—this is attendance, regular and unremitting. You can not acquire benefit by the "absent treatment" as is the boast of the Christian Scientists perhaps they do end see

Scientists perhaps they do and perhaps they do not, but we can not.

Punctuality is truly said to be the politeness of kings, and attendance is the politeness of grangers; this is the proposition-we have each with the other an appointment to meet in this hall on the stated day and at the stated time. Courtesy demands that we keep this appointment if in any way possible to do so, and may we adopt as our motto, "When the roll is called at Mono, I'll be there."—Frank Butler, in Grange

Why Join the Grange?

Bulletin.

Because it is inexpensive. Because it is the farmer's only organization National in character.

Because it has stood the test for thir-

ty-two years, and has never been found

wanting in any respect.

Because it has exerted greater influence in securing State and National legislation in the interest of agriculture than any other agency in the coun-

Because it is officered by those engaged in agriculture, who know from experience the needs of farmers, and are sincere in their desire to aid them in every possible way

Because it is the duty of farmers to cooperate with one another, if they would successfully meet the influence of organization in every direction, and secure for wife and home a fair share of what the harvest yields.

Because it has secured National legislation in the oleomargarine law, the establishment of the Interstate Commerce Commission, the establishment of rural free mail delivery, and State legislation in every State in the interof the farming population.

Because it has exerted the greatest influence known in breaking up the isolation of farm life, and in making farm



life attractive to the boys and girls, bringing sunshine and happiness into the farm home to such an extent as has never before existed.—N. J. Bachelder, Lecturer National Grange.

The Grange Is Growing.

The dues paid the National Grange from the different States is a good index of the growth of the order. The records of the National Grange show the following amounts to have been paid: 1896, \$6,597.10; 1897, \$8,360.30; 1898, \$8,909.38; 1899, \$8,976.09; 1900, \$9,374.08; 1901 about \$10,000. The above shows a healthy, steady increase.

100,000 Patrons in New England.

The reports from the New England States show them to contain about 100,-000 members of the grange divided as follows: Maine 30,000, New Hampshire 25,000, Massachusetts 15,000, Vermont 10,000, Connecticut 10,000, and Rhode Island 5,000.

At the Kansas City Market.

There is probably no live stock commission firm that does business at the Kansas City Stock Yards that can give you better service in the way of selling or purchasing stock than the Union Live Stock Commission Company. This com-pany has a corps of competent men in all of the departments of the live stock trade. It furnishes market reports free upon application.

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Our "Trucker's Catalog" of seeds tells all bout the most profitable kinds of cabbbages to grow in this section, gives 129 p. valuable in-formation about everything for our market; tells you all about our seeds for other varieties of money makers. Write for it. It is free.

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NOW I KNOW YOU.

Remember—A little stream of water was running down every corn row in my fields during the drouth last summer while other fields were suffering very badly, and drying up. Do you realize the difference? In other words—my fields produced a fine crop of fully developed seed-corn. The other fields produced mostly nubs and some not that. If you wish to raise a full crop this year, you can not do it by planting

mostly nubs and some not that. If you wish to raise a full crop this year, you can not do it by planting drouth-stricken seed.

When you plant my IRRIGATION GROWN SEEDS you have planted the best, and they will assure you a strong and vigorous stand, with the great vitality which is necessary to secure a large yield of corn. Send four cents for samples.

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MARCH 6, 1902.

The Stock Interest.

THOROUGHBRED STOCK SALES.

Dates claimed only for sales which are advertized or are to be advertized in this paper. March 15, 1902—C. P. Nigh, South Omaha, Red Polled cattle.

March 19, 1902—Dispersion Shorthorn sale. Col. W. R. March 19, 1902—Dispersion Shortnorn saie, Col. W. R. Nelson, Kansas City, March 20, 1902—B. B. & H. T. Groom, Kansas City, Shorthorns, March 25-27, 1902—National Hereford Exchange, Chicago, Ill. (Sotham management.)
April 1, 1902—M. Sooter, Lockwood, Mo., Shorthorns, April 15, 1902—Geo. H. Augustus, Kansas City, Mo., Shorthorns.

April 16, 1902—Geo. Bothwell, Nettleton, Mo., Short-horns.

April 16, 1902—W. O. Park, Atchison, Kans., Aber-deen-Angus.

April 22-24, 1902—National Hereford Exchange, Kan-

April 22-24, 1902—National Hereford Exchange, Kansas City, Mo. (Sotham management.)
April 25 and 24, 1902—H. O. Tudor, Holton, Kans.,
Shorthorns.
May 7 and 8, 1952—Colin Cameron, Kansas City, Arizona Herefords.
May 27-29, 1902—National Hereford Exchange, Omaha. Neb. (Sotham management.)
June 24-26, 1902—National Hereford Exchange. Chicago, III. (Sotham management.)

Baby Beef.

PROF. H. M. COTTRELL, IN THE INDUSTRAL-IST.

In the latter part of October, 1900, the Kansas Experiment Station put into the feed-lot 130 head of calves that had just been weaned. They were divided into lots to test the value of alfalfa hay, prairie hay, corn, Kaffircorn, and soy-beans in the production of baby beef.

Sixty head of heifer calves were purchased in the Kansas City stock yards, weighed an average of 418 pounds each, cost \$4.25 per hundredweight at the yards, and cost an average of \$18.25 per head delivered in the college feed-lot. These were range calves, grade Shorthorns, Hereford, and Angus. Fifty were purchased of farmers near manhattan and had been kept with their dams through the summer in small pastures. Twenty head were mixed-bred calves that had been pur-cased around Manhattan when born, and had been raised at the college by hand, ten being raised on creamery skim-milk and ten on whole milk. The calves were vaccinated to prevent blackleg. Without this safeguard we should not have dared to undertake the experiment. All lots were fed twice daily all they would eat, water and salt were always before them, and they were sheltered in common board sheds open to the south. The yards were fenced with woven wire.

The calves were fed seven months

with the following results:

\$4.00 FOR THE LARGEST SHEEP IN THE WORLD

INTERPRETATION SHEEP BRENDER, "Chicago, Ill. Ram winning this offer to be delivered in Chicago at the Live Stock witnesses to be forwarded to the "AMERICAN SHEEP BRENDER," Chicago, Ill. Ram winning this offer to be delivered in Chicago at the Live Stock Show in December, 1902, when the \$400.00 will be paid by International Stock Food Co.

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A \$3000.00 STOCK BOOK FREE

This Book Contains 183 Large Colored Engravings of Horee, Cattle, Sheep, Hogs, Foultry, etc. It cost us \$1000 to have our Artists and Engravers make the engravings. It contains finely illustrated Veterinary Department that will save you Hundreds of Dollars. Gives description and history of the Breeze, Cattle, Sheep, Hogs and Poultry. The Editor of this Paper will tell you that you cupit to have a copy of this finely illustrated Book for reference. We will give you \$14.00 worth of "INTERNATIONAL STOCK FOOD" if Book is not exactly as represented. We will give you \$14.00 worth of "INTERNATIONAL STOCK FOOD" if Book is not exactly as represented.

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INTERNATIONAL STOCK FOOD CO., MINNEAPOLIS, MINN., U. S. A

for baby beef and that there is no like-lihood of the market becoming over-supplied, even though stockmen gen-erally should go to producing it. The best demand and the highest prices are in the months of April, May, and June. During these months butchers want light cuts, and they find much less waste in baby beef than in that from larger cattle. After July 1 the price for baby beef has a tendency to become lower, as light grass-fed cattle compete. The best prices are obtained for well fattened calves weighing from 600 to 1,000 pounds. Calves either above or below these weights do not top the market. The age should be from 12 to 14 months.

ADVANTAGES OF BABY BEEF.

The production of baby beef makes a great saving in feed. The remarkable feature of this experiment is the small amount of feed required to make 100 pounds of gain. Last year the Kansas Experiment Station reported making 100 pounds of gain on 1,000-pound steers with 718 and 780 pounds of corn. Many old feeders wrote us that they could not make such gains with so little feed. Professor Henry reports that he finds the average in a large number of feeding experiments with steers to be 100 pounds of gain for 1,000 pounds of grain and 500 pounds of roughage. These calves averaged 100 pounds of gain for from 439 to 594 pounds of grain and 426 to 626 pounds of hay, about one-half the amount required for ma-

Average Grain Hay gain per per 100 per 100 head, in lbs.gain. lbs.gain. pounds. Pounds. Pounds.

At the close of the experiment, May ture cattle, and the calves sold for as 27, the entire lot averaged 800 pounds high prices per hundred as the same per head in the college feed-lots. The shrinkage in shipping to Kansas City was 3 per cent. Thirty-two steers averaged 838 pounds, and sold at \$5.40 per 100 pounds, seventy-four heifers averaged 758 pounds and sold at \$5.35, and eighteen heifers averaged 741 pounds and sold at \$5.15. Six head of heifers went as springers.

The thirty-two steers dressed 57.2 er cent and tallowed 6.1 per cent. The seventy-four heifers dressed 57 per cent and tallowed 6.3 per cent. The eighteen heifers dressed 56.6 per cent and tallowed 6.6 per cent.

DEMAND FOR BABY BEEF. The packers report that they have never been able to supply the demand

Nobody else but that. Масветн.

If you'll send your address, I'll send you the Index to Lamps and their Chimneys, to tell you what number to get for your lamp. MACBETH, Pittsburgh.

quality of mature steers.

The production of baby beef returns high prices for the heifers. These calves were put in the feed-lots at weaning time, and were probably a little over a year old when sold in Kansas City, May 29. The thirty-two steers at \$5.40 and brought an average of \$45.29 each, seventy-four of the best heifers sold at \$5.35 and brought \$40.60 each, and the eighteen poorest heifers sold at \$5.15 and brought \$38.20 each.

All the steers were home-bred, while sixty of the heifers were range-bred.

For equal weights and quality, the packers will pay as much for fat yearold heifer calves as they will for steers at the same age, and this is the only time in the heifer's life when she will bring as much, pound for pound, as a steer.

The prices secured for these year old heifer calves were fully as great as would have been secured if they had me puts his name been kept under usual conditions and on lamp chimneys

Deen kept under usual conditions and marketed two years later. The production of paby beef gives quick returns on the investment. The farmer who raises and fattens mature steers has to furnish pasture for his cows, the there's mighty

good reason for

to furnish pasture for his cows, the yearlings, the two-year olds, and often for the three-year-old steers. He waits three years from the time the calf is born until he realizes on the investment, and only one-fourth of his herd are cows producing calves. If the farmer will produce baby beef, he can fill his pasture to the full limit with cows producing calves and he will with cows producing calves and he will realize on the calves twelve months from the date of their birth.

The production of baby beef offers greatly increased profits to the dairyman. Experiments made at the Kansas Experiment Station show that the scrub cows may be bought at ordinary prices and if selected for dairy form will pro-

duce from \$50 to \$75 worth of milk per year per cow at creamery prices. Our calves fed creamery skim-milk until weaning made the greatest gains in feed-lots, and sold at \$40 and \$45 per head. This shows that a gross income of from \$90 to \$120 per cow can be made by the dairyman who will push both cow and calf. When a farmer can sell a skimmilk calf for \$40 to \$45, as we sold these, it adds largely to the profits from dairying.

HOW TO PRODUCE BABY BEEF.

The calves used in this experiment were "common-bred" ones and they made good gains. The farmer whose business was producing baby beef would use the best type of bull that he could secure—short legged, thick meated, blocky, and quick maturing. No experiments have been made to test the matter, but general observation indicates that the quickest growth and heaviest weight at a year old can be secured by judiciously crossing the beef breeds, using high-grade cows of one breed and pure-bred bulls of another. With good breeding and good feeding an average weight of 1,000 pounds may be secured at 12 to 14 months of age.

Where dairying and baby-beef raising are to be carried on together, the great est income may be secured by selecting good-sized grade beef cows that are good milkers and crossing them with pure-bred beef bulls of the quick maturing type. Such cows are found in every community in eastern and central Kansas. The high-grade Shorthorn with prominent dairy points is an example. Such cows will give from \$50 to \$75 worth of butter-fat each year at present prices, and their calves, when marketed as baby beef, will bring \$40 to \$50 each. In every case, homegrown stock made the best gains. In the first four lots, there were in each lot fifteen range calves and five calves that had run with their dams in small pastures under ordinary farm conditions. The home-grown calves made an average gain per head of 399 pounds, the range calves 369 pounds.

In three lots that were fed alfalfa hav and corn, range calves gained an average of 396 pounds each, calves that ran with their dams in small pastures 436 pounds each, and calves raised on skim-milk 440 pounds each.

The tamer calves are when they go in the feed-lots, the better the gains and the cheaper every pound of gain is put on. The farmer who raises his own stock and pets them has every advantage in producing beef cheaply over the ranchman and over the feeder who buys at the stock-yards and gets calves that have had all the loss and excitement of shipping.

Alfalfa hay and corn gave the great-Kaffir-corn. At all times through the seven months feeding, the calves fed alfalfa hay appeared to be in the best condition, and they finished the best. The corn and Kaffir-corn were fed whole for a little over half the experiment, and were then ground for the finish. The soy-beans balanced up the prairie hay and corn and Kaffir-corn, helping to secure good gains with these feeds, though not as good as was made by alfalfa.

Kaffir-corn did not show as good gains as corn, but the calves did well on it

and it will be a profitable grain to grow on upland and in the dry regions of the West for feeding for baby beef. farmer who produces baby beef should raise alfalfa and make it the basis for feeding both cow and calf. Cow-peas, soy-beans, field peas and clover hays may be used to give variety, and all these crops increase the fertility of the soil, as well as supply the best feed at the least cost.

Color in Shorthorns.

EDITOR KANSAS FARMER: - I note what Mr. P. T. Hamilton writes in a recent issue of the FARMER about the "color craze". His first assumption is mon-strous. He claims the Shorthorn bull is not so prepotent in fastening his color upon his offspring as bulls of other breeds. I deny this and call for proof. I have received letters from customers who were surprised at the prepotency in this respect of the pure
Shorthorns bull. In two cases, Jersey
cows (pure-bred) were bred, one to a
red, the other to a roan Shorthorn bull.
The calves in both instances were solid
red, with light colored nose and skin. red, with light colored nose and skin. Perhaps some will say the roan bull did not show his color. He got a red calf, and red is a Shorthorns color. White Shorthorn bulls will get red calves and red bulls will get white calves.

Mr. Hamilton asks why the Short-horns, as well as the Hereford, Red Polled, Galloway, Polled An-gus, or any other breed can not have a color and not sacrifice type? He can, of course; and he has a color. The color of his hair is always red or white -the same as the Hereford. As to the Polled Angus, he frequently shows a white spot, but the association has the "color craze" so badly that they will not admit him to record. Again, there are whole herds of Polled Angus that are red, and as pure in their descent as the

black ones of this country.

Mr. Hamilton quotes a Mr. Sutton as saying "a bunch of steers or heifers of the same color and type will outsell a mixed drove 50 cents to \$5.00 per hun-dred weight." Mr. Hamilton takes this foolish statement for granted because it is in line with his prejudices. A more absured statement, without qualifica-tion, was never made. I would ask him where and to whom would they sell? Surely not as beef cattle on the Kansas City market; that would be too absured for a moments consideration.

It seems Mr. Sutton makes no distinction as to color, and the inference is that any color would sell as well as any other color, if it is solid. That is,



DISEASES OF

The greatest and most successful Institute for Diseases of Men. Consultation free at office or by letter BOOK printed in DR. E. J. WALSH, PRESIDENT. English, German and Swedish, Explaining Health and Happiness sent sealed in plain envelope for four cents in stamps. All letters answered in plain envelope Varicele cured in five days. Call or address

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white would sell as well as any other color if the bunch were all white. In that case, a bunch of white Shorthorns would outsell a bunch of Herefords because the latter is red and white. Following this strange reasoning, which could only eminate from the brain of a person afflicted with the "red craze" or "color craze," Mr. Hamilton moralizes, and explains the reason to his own satisfaction, and asks why something is isfaction, and asks why something is so, that is not so? He says the color is the first thing noticed by the buyer, and then if the color is bad ne will go on to discover other inferior points, etc. He does not state what is a bad color or what is good color, leaving us in the dark; but from his reasoning, we have a right to assume that if the color is bad the "other inferior points" are bad also. We deduce from this that accord-ing to his theory the color is the great point and the form and make up of the animal are of minor consideration. He says, too, in further confirmation of this reasoning that "if the color is good" the buyer will proceed to "pick out the other good points." Therefore all cattle of a bed color have otherwise inferior points, and all cattle of a good color have otherwise good points.
I would like to ask Mr. Hamilton a

question. Why is it that the two greatest cows of the Short orn breed in the wide world are roans? One, Imported Cisely, late champion of England; the other the 2-year-old heifer Ruberta. The former was sweepstakes cow at the great International show at Chicago in December, with Ruberta next to her. Will Mr. Hamilton please state if the roan is a good color? D. P. Norton. Dunlap, Kans.

"Provided we have a favorable spring with plenty of moisture and good grass, I look for a heavy movement of Texas cattle to Northern pastures within the next few months," said John Fox, general live-stock agent of the Rock Island, while speaking about cattle outlook during the coming season. "A feature of the movement this year," he continued, "will be the shutting off of cattle from the Kiowa and Comanche pastures and their location in Kansas and the Northern States. With the exception of certain parts of the Chick-asaw nation, my road will practically haul no Texas cattle to the Territory pastures. This loss of Southern business in that particular locality will be more than made up however, by in-creased shipments to Kansas and the Dakotas, Montana, and Wyoming. There has been a strong inquiry from the latter States all winter for Texas cattle, and as the spring approaches these inquiries are developing into bona fide contracts and purchases."

Hereford Breeder Combination Sale Average Nearly \$300.

Average Nearly \$300.

The Hereford Breeders' Combination Sale, held at the Stock Yards Sale Pavillion, February 25, 26, and 27, was a big success. The offering was according to advertisement and were a strictly representative lot, consisting of consignments from the following well-known herds owned by C. A. Stannard, and Mrs. C. S. Cross, Emporia, Kans.; Gudgell & Simpson, Independence, Mo.; Scott & March, Belton, Mo.; O. Harris, Harris, Mo.; W. B. Waddle, Lexington, Mo.; Steward & Hutcheon, Greenwood, Mo., and Frank Rockefeller, Belvidere, Kans.

Each consignment was a desirable lot, and in proper condition, with the exception of Mr. Rockefeller's, which was not as uniform a lot, being his first consignment to a public sale.

The sale started off in a spiritless sort of way, notwithstanding the combined effort of the auctioneers, Cols. R. E. Edmondson, F. M. Woods, J. W. Sparks and Carey M. Jones, who were unable to make more that \$200 average the first afternoon, but from that time on until the offering closed the bidding was spirited and prices exceptionally good for cows and heifers. The demand for bulls was not good, and it did not require the full offering to completely supply those present. One hundred and thirty-two Herefords were sold by the Combination for \$38,865.00, a general average of \$294.43; 95 cows and heifers averaged \$327.83, and 32 bulls averaged \$209.19.

Gudgell & Simpson realized heighest prices among the consignors, their bulls averaged \$225.0, females \$260.23, with a general average of \$235.35; C. A. Stannard's bulls averaged \$100.00, females \$260.23, with a general average of \$347.17; W. B. Waddle bulls averaged \$173.33, females \$352.30, general average of \$347.17; W. B. Waddle bulls averaged \$173.33, females \$352.33, general averaged \$173.33, females \$352.30, with a general average of \$347.17; W. B. Waddle bulls averaged \$173.33, females \$350.00, with a general average \$173.33, females \$350.00, with a general average \$173.33, females \$350.00, with a general average \$173.33, females \$3

females \$369.00, with a general average of \$330.00; Mrs. Cross sold two bulls for \$1,060, average of \$530.00; Frank Rockefeller bulls averaged \$141.66, females \$153.00, with a general average of \$145.00. At this sale cows and helfers sold better than at any Hereford sale of recent years.

The top prices as shown by the following detailed report of the sales for bulls. was \$650, for Royalty's Java 115292, consigned by Mrs. C. S. Cross, and sold to S. J. Gabbert, Dearborn, Mo. The top price for females was \$700, for Bonny Lulu 15th 61523, consigned by W. B. Waddle, and sold to R. C. Wilson, Belton, Mo. The detailed list of sales were as follows:

BULLS.

Cornwal 118454, W. D. Walters, Highland, Kans. 165
Cymric 131581, A. F. Reichenberger, Huron, Kans. 135
Dearborn 116463, O. Harris, Harris, Mo. 150
Dolly Boy 105717, C. A. Stannard, Emporia, Kans. 140
Graceful's Archibald 117763, H. N. Moore, Seward, Neb. 100
Grover 60580, C. A. Stannard. 100
Helter Skelter 3d 119935, D. Walton, Denver, Ills. 155
Jack Hayes 1st 117764, Scott & March, Belton, Mo. 105
Keep On's Real 103459, H. F. Lamb & Son, Cairo, Mo. 300
Kimberly 118479, G. H. Hennick, Farmington, Kans. 200
Kruger 106745, Otto Puttenhoff, Alma, Kans. 225
Marlo 110273, F. G. Robinson, Kansas 110273, F. G. Robinson, Kansas Marlo 110273, F. G. Robinson, Kansas City, Mo.

Nora's Archibald 117770, S. Weichselbaum, Volland, Kans.

Patience 124098, C. A. Stannard.

Royalty's Java 115292, S. J. Gabbert, Dearborn, Mo.

Rustler 107248, H. N. Moore.

175

Spartacus 109829, Hon. Wm. Henry Hunter, Maples, Ont., Canada.

510

Shadeland Hesiod 127024, C. W. Armour. 205

Soldier Creek Archibald 1st 105718, W.

C. Swope.

C. Swope.

Sunny Slope Tom 11th 107812, A. F. Corthan, Ottumwa, Iowa.

Theodore 106750, W. M. Winger, Burns, Kans. Marlo Theodore 106759, W. M. Winger, Burns, Kans.
Verna Briton 127025, Powell Bros., New Cambria, Mo. 175
Vigilant 126250, Ed. Hockaday, Kingfisher, Okla. 295
Von Buelow 118533, C. R. Hutchinson, Harrisonville, Mo. 155
William Alamo 117774, H. F. Lamb & Son. 135
Soldier Creek Hesiod 119762, James Dempsey, Iola, Kans. 145
Bonny Hesiod 134240, Jones Bros., Comiskey, Kans. 140 COWS.

Cheerful 115272, Frank Rockefeller, Bel-Alena 118426, Henry Pritchard, Atkin-son, Ill. 425

 Dorinda 135872, Fritch & Shea, Pitts-burg, Iowa.
 655

 burg, Iowa.
 295

 Emma P 3d 83579, S. J. Gabbert.
 295

 Estelle March On 112451, C. A. Jamison.
 305

 Eudora Hayes 117762,
 W. B. Waddle,

 Lexington, Mo.
 155

 Fantana 118469, C. A. Jamison.
 230

 Fauleta 98312, Henry Pritchard.
 175

 Floretta 118470, C. A. Jamison.
 300

ROWN'S BRONCHIAL TROCHES

"The best preparation for colds, coughs, and asthma." MRS. S. A. WATSON, Temperance Lecturer. "Pre-eminently the best."
REV. HENRY WARD BEECHER.

Plum 4th 135064, S. L. Standish, Hume, Mo. 360
Bonnie Maid 3d 135956, Jas. Price, Harris, Mo. 310
Primrose 2d 91685, Clem Graves. 600
Queenie 119332, T. C. Sawyer. 200
Rodalia 118110, J. A. Funkhouser. 206
Rowena 115290, Walter Waddle. 250
Satelite 118525, B. B. Frazier. 220
Solicia 61604, J. A. Funkhouser. 405
Sorceress 8th 135883, A. B. Matthews. 300
Sorosis 3d 135958, C. A. Jamison. 350
Sprite 10th 56711, O. Harris. 300
Superior Lady 107774, J. W. Morrison. 305
Sylvia 109732, C. W. Armour. 355
Ursa 2d 97459, Clem Graves. 460
Vignette 2d 109727, C. H. Elmendorf. 500
Venus 4th 118582, T. J. Crippen, Council
Grove, Kans. 235
Zelar 118539, B. B. Frazier. 200

Winn & Mastin's Great Poland-China Sale.

Mo. 152.50
Lady King, J. G. Hendrick, Wilmington, Ohlo. 180.00
Missouri Girl, J. M. Kemp, Kenney, Ill
Wild Rose Oakwood, A. G. Knight, Trenton, Mo. 75.00
Rosa Kemp, J. W. Funk, Heyworth, Ill
Lorrector, W. P. Goode, Lenexa, Kans. 76.00 Ina Corrector, W. P. Goode, Lenexa, Kans...

Hester B, H. M. Kirkpatrick, Wolcott, Kans...

Perfection Maid, H. W. Turney, Lorimer, Iowa.

Sow sired by Chief Commander 45357, H. W. Turney.

Perfect Girl, A. G. Knight

Lamplighter's Sister, John Harmon, Valley Falls, Kans...

Lady Moon, John Bollin, Kickapoo, Kans...

Perfect's Lass, A. B. Mull, Iola, Kans... Perfect's Lass, A. B. Mull, Iola, Kans. 91.00
Ruby Queen, John Bollin. 100.00
Lady Beatrice, J. M. Turley, Richards, Mo. 90.00
Butler Maid, A. A. Newton, Mastin, Kans. 60.00
Oakwood's Daisy, Ziegra Bros., McCune, Kans. 128.00
Ruth M, S. O'Fallon, Oregon, Mo. 68.00
Ruth M, S. O'Fallon, Oregon, Mo. 68.00
Roberta 2d, H. M. Kirkpatrick. 79.00
Winnie Davis, T. P. Sheey, Amos, Mo. 78.00 Mo... Edith U. S., John L. Clark, Bolivar,

How to Secure a Perfect Complexion by Natural Means—An Easy Way to Beautify the Skin and Obtain a Good Color.

It is every woman's wish to be possessed of a clear and beautiful skin, but how few are thus fortunate. A pale and sallow complexion is far too common and a fresh, healthy color is so uncommon as to be the cause of favorable remark when seen anywhere. It is a matter of fact that the condition of the skin is an index to the health of the body. Therefore, to improve a bad com-plexion, the right way, and the only sure way, is to go back to the cause. In almost every case it will be found that the blood is out of order and needs building up. This was the case with Miss Gracie B. King, of No. 35 Russell

street, Lewiston, Me.

"My color had left my face," she says,
"and my health failed. I suffered from
nervousness, dizziness and loss of appetite; not enough to confine me to the bed but troublesome enough so as to interfere with my work. Oftentimes I experienced a faintness at the stomach which made me feel miserable.

"During the summer of 1900 a friend who had been troubled as I was, and who had been he ped by Dr. Williams' Pink Pills for Pale People recommended them to me. I began to take them at once and and not used up a box before I felt a decided change for the bet ter in my condition. Now I do not like to be without them."

The disease from which Miss King suffered was anemia. It is characterized by a palid complexion, pale lips, dull eyes, tongue and gums bloodless; shortness of breath on slight exertion especially upon going upstairs; palpitation of the heart, feeling impending death; weakness, loss of appetite and ambition; irregularity and pain in the

natural functions of women.

The one remedy that has proved itself a specific for anæmia is Dr. Williams' Pink Pilis for Pale People. These pills, taken in increasing doses, will never fail to effect a cure if useu persistently for a reasonable length of time. They are sold in boxes (never in bulk) at fifty cents a box or six boxes for two dollars and fifty cents, and may be had of all druggists or direct by mail from Dr. Williams Medicine Company, Schenectady, N. Y. Be sure to get the genuine; substitutes never cured

Molly	M,	H.	Davidson	, Waverly,	
Lorian	e 2d.	H	M Kirkna	trick	65.00
Annie	S. H	w	Cheney		58.00
Miss F	eerle	88. 8	E O'Fal	lon	46.00
U. S. I	888	2d. F	M Turn	ey	50.00
Proud	Per	fection	on Jr (he	oar), C. E.	80.00
Smoo	t. P	eters	hure III	··············	51.00
Stylish	Cho	ice.	Henry Bro	s	90.00
Stviish	Cho	ICA 2	d J T R	Ohigon	70 00
Stylish	Ch	oice	3d, Wm	. Maguire	100000
Have	n. P	(ang			E0 00
Miss I	Brillie	int,	H. M. Kir	kpatrick	68.00

How's This!

We offer One Hundred Dollars Reward for any case of Catarrh that can not be cured by Hall's Catarrh Cure.

F. J. CHENEY & CO., Props., Toledo, O. We, the undersigned, have known F. J. Cheney for the last fifteen years, and believe him perfectly honorable in all business transactions and financially able to carry out any obligations made by their firm.

firm.
West & Truax, Wholesale Druggists, Toledo, Ohio.
Walding, Kinnan & Marvin, Wholesale
Druggists, Toledo, Ohio.
Hall's Catarrh Cure is taken internally,
acting directly upon the blood and mucous
surfaces of the system. Price, 75c per bottle. Sold by all Druggists. Testimonials
free.

Hall's Family Pills are the best.

Order Seed-corn Now.

It will be some weeks before corn-plant-It will be some weeks before corn-planting time, yet it is not too early to place your order for your seed-corn. By ordering now, you avoid the rush incident to so many ordering just before planting-time. Most of the seed merchants run behind in their orders, so if you wait till you need it, you may have to wait longer

than you care to.
The C. M. West Seed Co., Shenandoah, The C. M. West seed Co., Shenandoan, Iowa, is one of the reliable seed houses of the country. They send out a quality of seed that can not be surpassed. They have seven varieties of thoroughbred seed. corn to select from. Their seed, they claim, is all grown from pure stock and is all heavy heavy yielders. It is carefully sorted, hand selected and examined by men sorted, hand selected and examined by men of years' experience. The leaders are West's Improved Legal Tender (yellow), and Iowa Silver Mine (white). Write for free descriptive catalogue or send four cents in stamps for five varieties of seed-corn and two varieties of seed oats. Better look after this matter now. MARCH 6, 1902.

Young and Turley Sell Poland-Chinas.

Recent auction sales of Poland-Chinas.
Recent auction sales of Poland-Chinas demonstrate the fact that first-class Poland-China swine are good property. That breeders want them and will pay good prices is evidenced by the result of the sale held at Richards, Mo., on February 27, by J. R. Young and J. M. Turley, who made an average of \$43.30 on four boars and fifty-one females. Mr. Turley only had eight sows in the sale which averaged \$32.25. Mr. Young's boars averaged \$62.25 and forty-three sows and gits averaged \$45.18.

45.18.

The offering was a most excellent one and a distinct credit to the reputations, as breeders, of both Mr. Young and Mr. Turley. The sale was advertised as a Missouri's Black Perfection sale, as most of the offerings of Mr. Young were either sired by or safe in pig to that sweepstakes boar. Mr. Turley's eight head were mostly the get of W. B.'s Chief. Both parties were well pleased with the sale, and the breeders present expressed a new confidence in the stability and future prosperity of the market for pure-bred Poland-Chinas.

breeders present expressed a new confidence in the stability and future prosperity of the market for pure-bred Poland-Chinas.

The highest brice of the sale was \$175 paki by W. H. Wooton, of Tuscola, Ill., for J. R. Young's May, 1901, boar, The Lad for You, a son of Missouri's Black Perfection, out of Fanny U. S. (67512), a daughter of U. S. Chief 16720. Two females sold for over \$100 each. Black Chief's Lady, an October, 1899, sow, by Missouri's Black Chief, selling for \$133 to W. H. Ritter, Arrowsmith, Ill.

Lady U. S. (58474), a coming 4-year-old sired by U. S. Chief and out of Fanny I Know, by Chief I Know, sold at \$102 to J. T. Robinson, Bates City, Mo. Both these sows were consigned by Mr. Young. What was considered the best gilt in Mr. Turley's offering was injured shortly before the sale, and probably deprived him of the honor of "topping" the sale. His highest priced animal was an April gilt by W. B.'s Chief, dam by Model Boy 18545, which sold to A. T. Nelson, Lebanon, Mo., for \$45. Three head in the sale sold above \$100, one at \$85, one at \$71, and six others at \$50 or above. The purchasers of Mr. Young's offering were: W. H. Wooton, Tuscaloosa, Iowa; W. G. Hughey, Gibson City, Ill.; J. D. White, Richards, Mo.; John Salmon, Madison Mills, Ohio; E. H. Ware, Douglass, Ill.; H. O. Minnis, Edinburg, Ill.; J. T. Robinson, Bates City, Mo.; J. B. Harman, Valley Falls, Kans.; W. H. Hadley, Walkers, Mo.; W. H. Turney, Lorimer, Iowa; H. W. Cheney, North Topeka, Kans.; W. H. Benedict, Richards, Mo.; John Taylor, Richards, Mo.; Dietrich & Spaulding, Richmond, Kans.; J. D. Harman, Valley Falls, Kans.; E. C. Mull, Iola, Kans.; E. E. Wait, Altoona, Kans.; B. L. Gossick, Fairfield, Ill.; W. J. McKibben, Garden Prairie, Ill.; Mr. Nelson, Lebanon, Mo.; Gus Aaron, Kickapoo, Kans.

J. M. Turley's consignment were purchased by: W. H. Turney; T. P. Sheehy; Ben Gossick, Fairfield, Iowa; S. J. Mooney, Cornland, ill.; Chas. Thom; E. E. Wait; A. C. Nelson, W. H. Hadley.

Angoras Sell Well.

The auction sale of Angora goats held at the Kansas City Stock Yards on February 25, was a lively affair. Colonel Edmonson, the regular acutioneer, was assisted by Colonel Sparks. The combination sale consisted of consignments from the ficeks of Mrs. M. Armer, McIntire & Co., and R. C. Johnston. One thousand two hundred head were sold. The bidding was snappy throughout, and the stock all sold high. Nothing fancy to bring sky-scraping values was offered, but the entire consignment consisted of registered and unregistered "land-cleaning" Angoras.

P. Corbett, acting for the American An-

tered "land-cleaning" Angoras.

P. Corbett, acting for the American Angora Goat Company, of Garrett County, Maryland, bought over half the entire offerings, or 650 head. The highest price of the sale was \$13 per head, given by M. J. Delaney, of Canton, Mo., for three yearling does. Aged unregistered ewes sold as low as \$3.50, but the bulk of the unregistered offerings sold at \$5 or better.

as \$3.50, but the bulk of the unregistered offerings sold at \$5 or better.

Local buyers for packing-houses entered into competition for a bunch of wethers weighing about eighty-five pounds that was offered for sale. They bid up pretty lively for the wethers, but farmers wanted them worse to clean brush and secured the stock at \$3.95 and \$4 per head.

Detailed sales were: P. A. Rogers, Gravette, Ark., 40 doe kids at \$7.50; P. Corbett, Oakland, Md., 41 doe kids at \$7.50, 171 does, 1 to 5 years, at \$5, and 75 kids at \$6.30; N. J. Delaney, Canton, Mo., 3 yearling does at \$13; J. A. Spaulding, Atchison, Kans., 101 wethers at \$4, and 4 yearling does at \$8.25; Dr. J. R. Standley, Platteville, Iowa, 100 wethers at \$3.95; H. A. Heffner & Co., Petersburg, Ill., 123 does, 1 to 5 years, at \$510; O. Bunker & Son, Greenfield, Mo., 55 does, 1 to 5 years, at \$5.30.

Ward-Saunders Shorthorn Sale.

Ward-Saunders Shorthorn Sale.

The 14th of March will be a popular day at Omaha for buyers of good Shorthorn cattle. In point of numbers Mr. C. A. Saunders leads with an excellent contribution from his well-known Greeley Stock Farm Herd. He sends forward a good lot of well-ureed cows, all of them safely bred to his noted Scotch bulls. Cumberland and Merry Marshal by Imp. Merry Hampton. Mina Irene by Reporter 2d is a good cow just in her prime. Her dam is Mina Lass 3d, 2d dam imp. Mina Lass. She is safely bred to Cumberland. Home Au-

Genuine stamped C C C. Never sold in bulk.

Beware of the dealer who tries to sell

"something just as good."

tumn Rose is a daughter of Home Secret —bred to Cumberland since September. Vesta May is a red daughter of Aberdeen King, dam Violet's Pride by Canada Pride 2d—bred to Cumberland in October. Ne-rissa 16th of Maine Valley is a young cow by Royal Prince of Maine Valley, dam Ne-rissa 10th of M. V. by Confessor 2d—safe in calf to Cumberland. Lena's Minnie 2d is a Lavender King 3d helfer bred to Merry Marshall. Esther Cumberland is one of the Cumberland helfers in this sale. These are all bred to Merry Marshall. Her sire is by Velveteen Princes, dam Queen Abbotsburn by Young Abbotsburn 2d. Mr. Saunders' bull contingent is headed by the outstanding young bull Cumberland's Banner Bearer. Bull buyers will be in clover at this big sale. Mr. Geo. E. Ward's offering is strong in good material for herd building, and should receive attention from all progressive cattlemen. His consignment numbers about fifteen head. These good things come from Mr. Ward's well-known breeding establishment at Hawarden, Ia., where the sensational young imp. Lord Banff is in service. The Ward consignment to this Omaha sale embraces one or two imported cows, several of Canadian breeding, and some excellent things that are American bred. The 1,600-pound cow Blythesome 16th will go into this sale with young calf at foot. She is a good leader for the good things that are to follow. Mr. Ward is sending forward some good bulls material. The bull contingent for this sale is also strengthened from other quarters. Riley Bros. and Riley & Greenwood, of Albion, Neb., have consigned five good bulls. F. A. Edwards and F. P. Helmick, Webster City, Ia., are each sending along three good young bulls. Mr. Helmick also consigning three females. This sale follows to Ryan sale in South Omaha Sale

Bates Shorthorns At Auction.

Bates Shorthorns At Auction.

An auction sale of highly-bred Bates Shorthorn cattle is this week announced to be new at Kansas City, in the new sale pavilion, on March 20, the day following the Col. W. R. Nelson Shorthorn dispersion sale. The sellers are, Messrs, B. B. & H. T. Groom, who are managers of the Staked Plains Herd, of Panhandle, Texas. They will sell forty-five head, all of their own breeding, and all of which have descended from the blood that made Kentucky Blue Grass and Bates-bred Shorthorns famous on two continents. The Groom herd of Kentucky will live in history, and it is descendants of this famous stock that the Messrs, Groom are going to offer at Kansas City. Those who attended the Groom sale last year were more than pleased with the bargains they got, and it is worthy of note that some of them were added to some of the best herds in the country. Col. R. E. Edmonson will conduct the sale.

Gossip About Stock.

We have in type a very complete report of the dispersion sale of Wavertree Galloways, the most notable sale of this breed of recent years, but owing to the crowded condition of our columns the report will not appear until next week.

The annual sale of Mr. W. P. Goode, of Lenexa, Kans., to which he consigns the best lot of Poland-China brood sows he ever offered, will be held March 6, at Olathe, Kans. Sale in Luellen's barn. Colonels Sparks and Harshberger, auctioneers. Catalogues ready.

Two of the "closing events" of the winter's Poland-China sales will be the sale of "Goode hogs" at Olathe, Kans., March 10, and the "Double Distilled" Black U. S. sale made by Messrs. C. P. Shelton, Dietrich & Spaulding, at Paola, Kans., on March 15th. Missouri and Kansas breeders should apply for catalogues to both sales at once.

To the many inquirers for Red Polled cattle we refer all such to the advertisement in this issue of the dispersion sale of Cedar Farm Herd of Red Polled cattle, to be held at Omaha, on Saturday, March 15, at the stock yards sale pavilion. Get the catalogue at once by addressing C. H. Nigh, Mead, Neb.

We have in type an extended herd notice of the dispersion sale of Shorthorns, by Col. W. R. Nelson, who closes out his entire herd of imported and American-bred cattle on March 19. This will be the greatest opportunity to secure strictly toppy Shorthorn cattle, suitable for foundation stock for our best breeders. See advertisement and get catalogue at once.

Mr. C. P. Shelton, of Paloa, Kans., writes that there will probably be nothing better offered in the West this year than will be seen at his combination Poland-China sale. He certainly has some great stock of excellent breeding to offer. The writer can speak for the quality of the stosk and the catalogue can speak for the breeding. Write Mr. Shelton for catalogue.

The Farmers' Seed Company, of Atchison, Kans., is a comparatively new institution handled by energetic young men who have a very full line of just such things as a farmer needs at this time of the year. They start an advertisement in this week's paper in another column, and will aim to make a specialty of Kansasgrown seed-corn, of which they have a limited quantity but which is of excellent quality.

The Burgess and Gray Importing Company has an exceedingly interesting advertisement running in the Kansas Farmer of Percheron and Shire horses. Write them for further particulars. We urge all of our readers who are interested in the purchase of draft horses to take the time to visit our advertisers. Horses can be bought direct at very reasonable prices by calling in person on the advertisers. You buy what suits you and save considerable money.

Breeders can ill afford to overlook the sale of Poland-China brood sows to be held at Olathe, Kans., by Mr. W. P. Goode, on Monday, March 10. The announcement last week was erroneous as to the place the sale was to be held. Parties familiar with the stock aver that no better offering of desirable stock has been made this year. Get catalogue or send your bids to the

DRS. MONTAGUE & WILLIAMS

Warn All Catarrh Sufferers of the Dangers of Delay -Do Not Wait Until Catarrh Poisons the Blood—During the Winter Months the Disease Is Most Dangerous.

Perhaps the most common affliction known to humanity is catarrh. It is not always a mere catarrh or cold in the head, but thousands find themselves suffering from some mysterious dyspeptic trouble coming in reality from some catarrhal inflammation of the mucous lining of the stomach. Others are suddenly conscious of some mysterious kidney disease, liver disorder, bowel disorder, coming in reality from somé long lurking, unconscious catarrh of either of these vital organs. Physicians say that this is what makes catarrh such a danger. The patient can have it for months and not know it.

From chronic catarrh to commencing consumption is so short a step that the victim rarely sees it and does not realize the change until the situation is desperate and frequently too late to remedy. Hence the danger of delay.

To one of common sense the fact that a cure should be sought needs no argument. The question then, is, where? For fifteen years Drs. Montague & Williams have been answering this question in a most practical and unmistakable manner by publishing the statements of thousands of sufferers to their friends completely cured.

CHRONIC CATARRH CURED.

A Clear Statement-Testimony of Mrs. Sarah N. Hart-Now is the Best Time to Take Treatment.

"It is now three years since I took the Montague Treatment for catarrh of the head, nose, throat, stomach, liver and kidneys. I had been suffering agonizing pains for several years, and had tried many things which were highly recommended for catarrh trouble. I had treated with



MRS. SARAH N. HART, MILLEDGE-VILLE, ILLINOIS.

VILLE, ILLINOIS.
skillful physicians, but without benefit.
I was getting worse and began to despair of ever getting relief.
"I believe I would have been in my grave today but for the Montague Treatment. At the time I began the treatment I was suffering from pain in the stomach, had loss of appetite, bloating of the stomach, constipation of the bowels, and my di-

gestion was bad. To add to all my other troubles I had very little strength. I had to be continually clearing my throat day and night. I had a disagreeable taste in my mouth and suffered from severe headaches. I was so very nervous that I slept poorly and consequently feit weak and run down all the time.

"After taking your treatment three months I had gained thirteen pounds. The nervousness had all disappeared and I slept well. I never knew before how to appreciate good health. I have no one to thank for this pleasure but Drs. Montague & Williams. I shall always take pleasure in recommending this treatment."

ARE THESE YOUR SYMPTOMS?

Read Them Closely, Then Call at the Office or Write for Further Information.

- Do you have pain in the forehead! Does the nose discharge a thin, watery ubstance! Does it become stopped up and make breathing
- uit!
 Do you have dropping of mucus into the mouth!
 Are you annoyed by hawking and spitting!
 Are the tonsils swollen, or are there white patches
- n them!

 Are your eyes weak and watery!

 Are your eyes weak and watery!

 Do they pain you, and do you have a sense of fuless across the eyes!

 Do you see footing spots before the eyes, and is
 ne vision disturbed!

 10. Is the hearing dull and defective!

 11. Any ringing, roaring or buzzing noises in the

- 11. Any ringing, roaring or buzzing noises in the head!

 12. De you feel nauscated in the morning!

 13. Is there any sense of fulness after eating!

 14. Any bloating of the stomach and irregular action of the hear!

 15. Does gas accumulate in the stomach, and are you annoyed by belching!

 16. Do you shave sour stomach and heartburn!

 17. Do you spit up the food!

 18. Is there a loss of appetite or a craving for food!

 19. Is there a loss of appetite or a craving and inability to retain food!

 20. Is there a sense of inless in the right side!

 21. Are the bowels irregular!

 22. Is there a sense of fulness in the right side!

 23. Do you have a foul coated tongue and general languer!
- languor!

 languor!

 anguoris the sleep irregular and not refreshing!

 by you feel tired in the morning!

 by you have a dry hacking cough, and do you have a difficulty in clearing the throat, and is this worse in the morning!

 C. Does your cough prevent you from going to sleep at night!

- at night!

 28. Is your sleep disturbed by a cough!

 29. Do you expectorate large quantities of mucus!

 30. Do you have hemorrhage or night sweats!

 31. Any chills. fever, hot or cold flashes!

 32. Do you have pains in either side and difficulty in breathing!

 33. Do you have shortness of breath or smothering attacks!

 34. Is there a sense of compression in the region of the heart!

If you cannot come to the office and you have any chronic ailment, cut this out, answer the questions, forward it to Dr. Montague & Williams, and receive a diagnosis of your disease and full particulars of their treatment free of charge.

SPECIAL TREATMENT BY MAIL.

We treat all forms of chronic diseases, giving special attention to diseases of females, nervous debility, blood and skin diseases, nose, throat and lungs, dyspopsia, all diseases of the bowels, stomach, kidney and bladder.

CANCER CURED WITHOUT THE KNIFE.

Write for symptom blank and book, and for other information, address

DRS. MONTAGUE & WILLIAMS

Floor 3 Crocker Bldg., DES MOINES IA.

auctioneers, Col. J. W. Sparks, or J. N. Harshberger, care of Mr. Goode, Olathe, Kans.

Mr. C. S. Nevius, of Chiles, Kans., reports that he has just bought five choice helfers of C. F. Wolf & Son, Ottawa, and they have also bought two herd-boars and one bred sow of R. H. Wheeler, Lawrence. He calls attention to the fact that his great herd-boar, Glenwood Chief Again 24906, by W's Chief Again 22483, he by Chief Again 22482, dam One Price Model 48155, second dam, Model One Price 48154, is now for sale and is fully warranted to be all right. He has left a splendid record behind him and they offer him cheap. Here is a snap for somebody.

Mr. Chas. E. Sutton, Russell, Kans., writes that he has now ten 2- and 3-year-olds and ten yearlings by Expand for sale. These young bulls are a credit to the farm and every customer who has heretofore bought from among them testifies to his satisfaction as soon as the animal is in his possession. Mr. Sutton has also a few large English Berkshires, both sows and boars, of splendid quality to offer for sale. Notice his change of advertisement in this week's paper. Mr. Sutton has won a great reputation as breeder of "Sutton's Dodstock and the catalogue can speak for the Aberdeen-Angus fraternity.

The last opportunity to secure Poland-China bred sows at auction will be at the combination sale to be held at the fairgrounds, Winfield, Kans., March 21, 1902, at which time Snyder Bros., of Winfield, and Harry E. Lunt, of Burden, Kans., will sell at public sale fifty extra well-bred Poland-China hogs. The offering includes a part of the show-herds which were so successful at Oklahoma and Kansas fairs last year. Apply at once to Snyder Bros., Winfield, for catalogue and in case you can not be present send your bids to either of the auctioneers, care of Snyder Bros.

C. M. Garver, of Abilene, Kans., has just shipped a load of thoroughbred Poland-China hogs, sixty-eight head, that show what can be done in fattening with wheat. They were weighed regularly and were fed on ground wheat. They averaged 282 pounds at Kansas City and topped the market at \$6.42½. The record kept by Mr. Garver shows that they gained fourteen paunds for every bushel of wheat fed. "This," says Mr. Garver, "beats the best

corn record I ever was able to make— twelve pounds for every bushel fed. It has proved very successful feeding as it has made my wheat net me about 80 cents."

For some time past the Kansas Farmer has been receiving letters from the farmers of Kansas in regard to home-grown seed-corn, and we are now glad to be able to state that Mr. J. G. Thayer & Co., At-(Continued on page 278.)

Sharples "Tubular" **Cream Separators**

Gream Separators

The Wonder of the New Century. Greatest step ever made in advanced Cream Separator construction.

Superior as the Sharples Separators have always been, these Tubular machines are far ahead and completely distance every competitor. They are worth double the money because guaranteed under usual conditions to produce enough more butter than the best competing separator to pay fully six per cent interest on the whole first cost of the machine.

We absolutely warrant it and give free trial to proveit.

Our factory is running double turn, one gang all day and one all night, for the dairyman who sees this machine buys it.

Is addition to yielding more butter it is very light running. A 600 lbs per hour machine No disksto bother with and get out of order, no complications, Washed in two minutes. Top of milk vat waist high.

Highest award—Gold medal and special Knights decoration at Parls Exposition, Valuable book "Business Dairying and catal og No 365, free.

Sharples Ce, P. M. Sharples, Chipago, ills, West Chester, Pa.

Miscellany.

English Blue-grass.

EDITOR KANSAS FARMER:—I see Mr. L. R. Snopp, of Westmoreland, kans., asks about English blue-grass seed. It can be sown either in spring or fall. I have had best success by sowing in the spring. It can be sown with flax or oats, but I got the best stand and most satisfactory results by sowing on flax stubble in the spring.

Sow it in the fore part of March with broadcast seeder. Do not harrow it. After danger of rost is over sow five After danger of rost is over sow are quarts of clover per acre and harrow very lightly. Cut the weeds off with a mower about the last of June or first of July and pasture in the fall. Or prepare the land in fall same as for wheat and drill one-half bushel per acre, not covering the seed more than one and one-half inches deep. Then next spring

one-half inches deep. Then next spring sow a little clover on it. Do not sow clover in the fall. By sowing in fall you will get a seed-crop the next summer. The trouble with sowing in fall is if it is very dry and windy in the fall and spring it is liable to kill the young grass out before it gets well rooted. Do not be afraid to sow on flax ground in the spring on account of crap-grass, as the spring on account of crav-grass, as the crab-grass makes a good mulch and keeps the surface of the ground damp longer than if it were cleaner; but I do not like to sow where there are many sunflowers or cockle-burs. I think English blue-grass and clover make the best pasture we have here.
Carbondale, Kans. W. T. Dickson.

Farm Notes.

N. J. SHEPHERD, ELDON, MO.

Fix up the fence well before the spring work begins.

Arrange everything so that when the season opens the work can be pushed. Wood-ashes make a good top dressing

for meadow-lands.

Horses that are subject to cholic should be fed with care.

The flavor of the meat depends very largely upon the food of the animal.
In planting shrubs or plants, do not set them too deeply into the ground or

give them too much rich manure. During growth, the steer calf should

WHERE DOCTORS FAIL

To Cure Woman's Ills, Lydia E. Pinkham's Vegetable Com-pound Succeeds. Mrs. Pauline Judson Writes:

"DEAR MRS. PINKHAM: -Soon after my marriage two years ago I found myself in constant pain. The doctor said my womb was turned, and this caused the pain with considerable inflammation. He prescribed for me for



MRS. PAULINE JUDSON, Secretary of Schermerhorn Golf Club, Brooklyn, New York.

four months, when my husban tient because I grew worse instead of better, and in speaking to the druggist he advised him to get Lydia E. Pinkham's Vegetable Compound and Sanative Wash. How I wish I had taken that at first; it would have saved me weeks of suffering. It took saved me weeks of suffering. It took three long months to restore me, but it is a happy relief, and we are both most grateful to you. Your Compound has brought joy to our home and health to me."—Mrs. PAULINE JUDSON, 47 How Street, Brooklyn, N. V.— 47 Hoyt Street, Brooklyn, N. Y. — \$5000 forfelt if above testimonial is not genuine.

It would seem by this statement that women would save time and much sickness if they would get Lydia E. Pinkham's Vegetable Compound at once, and also write to Mrs. Pinkham at Lynn, Mass., for special advice. It is free and always helps.

be fed with a view to promoting growth corn, cats, and grass, with clover as the leading grass.

Excessive sweating in a herse is usually a sign of weakness.

In plowing, it is an item to turn weeds, stalks, etc., completely under. Better pay double for clean seed, for any crop, than to sow that which is

The more condensed and the nearer

finished the products are, the better the farm will pay.

Mixed grasses make a better and

surer pasture than any single variety, on matter how good that variety is. Whenever an animal is going backward in condition he is losing money for the owner.

The size of the farm has much less to do with success than the method of farming.

A fertile soil, one rich in the elements of plant-food, can nearly always be relied upon to produce a profitable

Haul out the manure as fast as made and spread it as you haul it, and thus save labor and secure the best results.

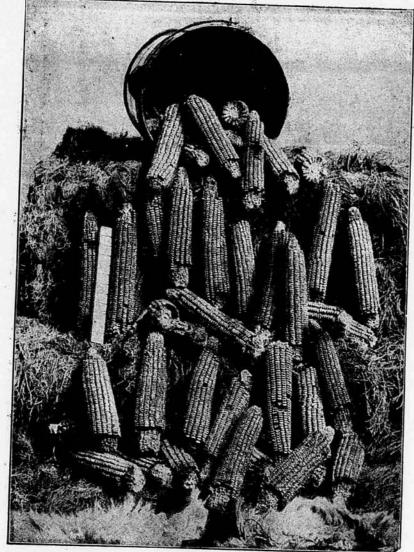
The best fertilizers known are those which, with the smallest outlay, make available the greatest amount of nat ural resources.

One of the best remedies for a caked udder is applications of warm water

THE SEED-CORN QUESTION.

THE SEED-CORN QUESTION.

Not for many years has there been as great a demand for good, sound, well-matured seed-corn as there is and will be this coming season. For this reason farmers should not delay the matter of securing their seed-corn now and at once; we wish to call attention to the seed-corn advertisement of J. R. Ratekin & Son, the growing and handling of seed-corn advertisement of J. R. Ratekin & Son, the growing and handling of seed-corn a specialty for the past eighteen years, and during that time, claim to have sold and sent out more seed-corn than any other county in five of the leading corn-growing States, without exception, and they say their trade this year is ten times greater than ever before up to the present the great satisfaction given from this seed they have this year received orders for and made shipment of over thirty car loads to that State up to the present time, and since corn planting begins in Texas thirty to sixty days earlier than it does say that they naturally expect an avalance of orders from this time on from this great corn belt.



The illustration shown herewith is from a true photograph of a fair sample of ears taken from their seed pile after it had oeen prepared for shelling. In the management and conducting of their great seed-corn plant they employ from fifty to seventy-five competent men from November 1 to May 1 each year, and each gone over, and every ear of corn that is thrown into their large drying houses is carefully after which each ear that goes into the seed pile is carefully hand picked and sorted, and if found of good vitality, the butt and tip ends are shelled off, thus leaving well say that their corn is seed-corn, and not elevator corn, that is often offered on the great Nishnabotna Valley, that has become so noted for the corn it grows. In 1880 Page County, in which Shenandoah is located, produced almost six million erage of over three hundred and twenty bushels for every man, woman, and child, inhabitant in the county. The Ratekin's issue a neatly printed and nicely bound which will be mailed free to every reader of this paper who will write for it.

Under no conditions should the pig's | combined with persistent gentle rubnest be allowed to get muddy.

One of the great dangers of incestuous breeding is that it will result in feeble constitutions.

When hogs have a good range it requires more feed to fatten them than when closely confined.

The only way to maintain the fertility of the soil is to utilize all sources of plant-food.

Under average conditions the barnyard and stables must be the farmer's principal dependence for manure. It is not always the man who feeds

the most who has horses in the best condition. "Blemishes as well as diseases are

readily transmitted from parent to offspring. A good rotation for a stock-food is

bing and kneading.
Usually it is not desirable to fatten stock during the winter; what is wanted is to keep them in a thrifty, growing condition.

Keep strawberries, raspberries, blackberries, and in fact all kinds of small fruits out of the garden. Have a place especially for them.

The high-grade butter-cow will not only give more and better butter than the cow of no breed, but she will make it at less cost.

It requires a certain amount of food to sustain life, and when an animal is kept in a condition in which it is making no gain the food it consumes is lost.

When writing our advertisers please men-tion Kansas Farmer,

"It is just a common cold," people say, "there's no danger in that." Admitting their statement, then there are uncommon colds, colds which are dangerous; for many a fatal sickness begins with a cold. If we could tell the common cold from the uncommon we could feel quite safe. But we can't. The feel quite safe. But we can't. The

uncommon variety is rarely recognized until it has fastened its

hold on the lungs, and there are symptoms of Dr. Pierce's

Golden Medical Discovery cures coughs, bronchitis, "weak" lungs and other diseases of the organs of respir-ation. It in-creases the supply of pure, rich blood and builds up the emaciated body.

body.

"I took a severe cold which settled in the bronchial tubes," writes Rev. Frank Hay, of Nortonville, Jefferson Co., Kansas. After trying medicines labeled 'Sure Cure,' almost without number, I was led to try Dr. Pierce's Golden Medical Discovery. I took two bottles and was cured, and have stayed cured. When I think of the great pain I had to endure, and the terrible cough I had, it seems almost a miracle that I was so soon relieved. That God may spare you many years and abundantly bless you is the prayer of your grateful friend."

If you ask your dealer for "Golden Medical Discovery" because you have confidence in its cures, do not allow yourself to be switched off to a medicine claimed to be "just as good," but which you did not ask for and of which you know nothing.

you know nothing.

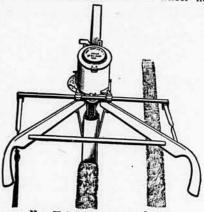
.Dr. Pierce's Pleasant Pellets cure diz-ziness and sick headache.

The Kitchen Garden.

The Kitchen Garden.

Every farmer and villager who has a plot of ground at all suitable should have a kitchen garden, if for nothing else than to supply fresh vegetables for the table. Thousands appreciate the efficiency of the poultry yard as an adjunct to the home table as well as a money earner. The garden plot should go hand in hand with the poultry yard. There is no better garden fertilizer than that coming from the henhouse—but the garden itself, how may it be best attended?

Put in the seed with a drill and every row will be straight and just right for easy after-cultivation with a wheel hoe.



New Universal Seeder at Work.

New Universal Seeder at Work.

You should not be without these most useful tools even if you cultivate but one-eighth of an acre. With it you can do as much work in a given time as twelve men can do in the same time by older methods. We are advertising in our columns the Matthews New Universal Hand Seeder and Cultivator, made by the Ames Plow Company, of Boston, Mass. This implement, with its various attachments, combines in one the Seeder, Wheel Hoe, Cultivator, Rake, Plow, and Marker. It is a wonderful labor saver and will pay bigger dividends on its cost than almost anything one would think of. These people also make separate implements for all gardening work on large acreage of Onions, Beets, Spinach, etc. Send at once for their 1902 catalogue. describing some twenty-five ing work on large acreage of Onions, Beets, Spinach, etc. Send at once for their 1902 catalogue, describing some twenty-five styles of these implements.
Address, Ames Plow Company, No. 42 Market Street, Boston, Mass.

The PERFECTION

Water Elevator and Purifying PUMP

Purifying PUMP
The simplest d-vice for raising water. Rasi y adjusted to any well or cistern. Can be erected in 15 minutes. Steel chain and buckets galvanized after construction. W.:rks e-sliy; never freezes, takes air into the water. keeping it pure and sweet Has every desirable feature. Lasta slifetime. Thousands in general use. Price \$6, freight pre-sid for complete pump for loft. well or cistern. Ad 80c for every additional foot in depth. Send for Free Ostalogs. St. Joseph Pump & Mig. Co.. 201 Grand Ave., \$t. Joseph, See Air Bubbles.



MARCH 6, 1902.

The Some Circle.

NELLIE GRAY.

There's a low, green valley on the old
Kentucky shore,
Where I've whiled many happy hours
away,
A-sitting and a-singing by the little cottage door
Where lived my darling Nelly Gray.

CHORUS.
Oh, my poor Nelly Gray, they have taken you away,
And I'll never see my darling any more;
I'm sitting by the river and I'm weeping
all the day
For you've gone from the old Kentucky
shore.

When the moon had climbed the mountain, and the stars were shining, too, Then I'd take my darling Nelly Gray, And we'd float down the river in the little red canoe, While my banjo sweetly I would play.

One night I went to see her, but she'd gone, the neighbors say; The white man has bound her with his

chain;
They have taken her to Georgia, there to
wear her life away wear her life away
As she toils in the cotton and the cane.

My cance is under water and my banjo is unstrung;
I'm tired of living any more;
Iy eyes they shall look downward, and
my song shall be unsung
While I stay on the old Kentucky shore.

My eyes are getting blinded, and I can not see my way. Hark! there's somebody nocking at the

O, I hear the angels calling, and I see my Nelly Gray, Farewell to the old Kentucky shore.

Oh, my darling Nelly Gray, up in heaven, there, they say That they'll never take you from me any

more,
I am coming, coming, coming, as the angels clear the way,
Farewell to the old Kentucky shore.

—Ben Hanby.

Consoliation of Schools.

EDITOR KANSAS FARMER:—I move that writers upon the subect of combining school districts, and carting the children to and from school, think of some of the disadvantages.

while it would be very nice for the small towns, which want the new schoolhouses, etc., and which are paying 18 and 20 mills taxes, and then hardly have money upon which to squeeze through, to join with districts naving 7 or 8 mills I can not see the paying 7 or 8 mills, I can not see the advantage to the country districts.

I do not know why a district able to pay good wages to teachers and having a good house and apparatus can not have a good enough school of its own—as good or better than the small graded schools are. The graduates from the country schools have always out-graded those from the small town schools. We do not care how much the small towns improve their schools (upon their own taxes), but want our country schools left to themselves.

I know of a school district adjoining a small town's district. Taxpayers pay 8 mills in the country district this year and 18 mills in the little town. There are not more than twenty-five pupils in this country district, but in order to collect these twenty-five it would require a drive of seventeen miles each way. Of course, if there were more pupils, there would be more miles to cover. A good team will average, maybe six miles an hour, considering bad roads, snow drifts, etc., and maybe they would not average so much. Now counting five minutes to the house, in which to drive from the road to the house, get the children in and get back to the road, it will take sixty minutes, and with the three hours on the road, and an hour for stopping, it makes four hours that some of the children must be upon the road in the morning. It would take at least an hour for the children to eat breakfast and get ready for school; therefore they would have to get up at 4 o'clock and start at 5. when the th eter stands near zero, who would send out little children to be out four hours? They would earn their educations several times before they would get it If the cook happens to be the mother (which does sometimes happen in country homes), she must be up by 3 oclock to get everything ready so that the children can start to school at 5 o'clock. If the children get home at 6, 7, or 8 o'clock in the evenings, when will the older ones help about the work at home? They would need to go to sleep as soon as they got home in or-der to be ready to roll out at 4 o'clock the next morning.

And what a time there would be "getting ready for school" in the morning! Mamma would need from one in the to three assistants to comb heads, scrub boys, put up dinners, watch for the carrier, sew on buttons, and darn mit-

tens. I would prefer to hire a govern-

ess and have the children at home.

After the carrier gets the children in, who is to look after them to see that none of the little ones are not stepped upon, sat upon, or thrown out, and that they are kept wrapped up? If the driver attends to his team in a that makes mothers willing to risk their children with him, he can not attend to the children, so there would have to be a care-taker, who must have wages. Can a man and team and a man or woman inside to take care of the children be had for a good teacher's wages? I think not. Besides, one-team and wagon can not do the work. Where is the money saved? (It would be very proper to hire a good doctor for each district, too.)

If the children would collect at a given place, say their old schoolhouse, it would do all right (for the carrier). But when they walk from one-half mile to two miles to get to the "meeting place," I think they would best stay there, with their teacher, till 4 o'clock. If they would get there a little late, they could not walk five miles more to get to school; so would have to go home. There would be more absences than ever before.

It would be very necessary to have fire at their meeting place, and someone to see that the building is not set on fire, and that the children did not fight, etc. Maybe a cheap-grade herder could be had for \$10 or \$15 per month.

Things are pretty well arranged as they are, and until some scheme a good deal better than this consolida-tion scheme is thought of I think we would better go on as we have been do-

Sister teachers, do not fret for fear of losing your jobs. You might get to be a "Herder," or "Nurse;" or you might study to be a "Doctor of Public WIMA DYER. Schools."

Riley, Kans.

Not Chinese!

Editor Kansas Farmer:-The present day and age is developing a great many needs not known heretofore. We are living so fast that, in the mad rush those who will not keep up to the front of the procession, will doubtless be run down and crushed by the eager millions who are pressing so vigorously forward.

It is true that great many women are being overworked to-day, but will the introduction of Chinese into our midst profit us much? Do we take it for granted that these selfsame Chinese will always work cheaply? If we do, we must prepare ourselves for continuous importation of Chinese laborers, in order to supply the labor market; and will it be possible to import the females alone? Do we wish to further depress the labor wage in America? No! Emphatically, no! Mr. Crouch virtually admits that it is not on account of the lack of laborers; but on account of education. I am glad women have become educated enough to become disposed to revolt against the senseless household drudgery which mankind are still trying to foist upon them. Wo-man's work has not had the benefit of the advance in machinery and methods that man's work has. If a man wants to thresh his grain, he goes out and gets his neighbors to come and help him. If the woman has an extra hard job of work, she must do it alone; because those who have similar work to be done can not spare the time to help, and, as Mr. Crouch says, others will not do it.

Suppose we have a little cooperative work. How would that strike you? Instead of wearing out our women with washing, let us have cooperative laundries; instead of roasting their brains out over the stove, establish cooperative bakeries; and, finally, when tne women learn enough to demand justice, we will have cooperative din-



A MILLION FARMERS JOHN DEERE PLOW

This is no exaggeration. We have positive proof that we make more than one-fourth of all the high grade steel plows made in the U. S. The John Deere Plow has been the standard of quality in American made plows for more than sixty years. Made in all styles, walking and riding. Also Listing Plows, Harrows, Walking and Riding Cultivators, etc. Handsome illustrated book, "From Forge to Farm," free for the asking. Shows how plows are made in the oldest and largest steel plow factory in the world.

DEERE & COMPANY, MOLINE, ILLINOIS.

ing-halls; and the women become wives and mothers instead of cooks and washerwomen; and we will build our homes in villages and live like social beings, and not like hermits.

When the social advancement and happiness of mankind becomes the paramount object of life, the labor, wage, domestic, Chinese, and other problems will have a quick and satisfactory solution but as large as many factory solution; but so long as man is lost sight of in our scramble for dollars and cents, so long will it be impossible to solves these vexing problems. In conclusion, I think I voice the sentiments of a great majority of mothers, when I affirm that they would much rather slave out their days, even if it should shorten them, then to introduce Eastern domestics and Eastern vice into their households. We are chasing winged butterflies now; we will learn better sometime.

Agricola, Kans. O. M. RICE.

The Chinese Question.

EDITOR KANSAS FARMER:-In the KANSAS FARMER of February 13, I read with interest the letter by W. L. Crouch concerning the immigration of Chinese laborers into the United States. This question, that for years has been agitating in a greater or less degree, the minds of the American people deserves deep and thoughtful consideration. The question is, should the Chinese be admitted into our country regardless of all restrictions?

In his letter, Mr. Crouch refers to the lack of efficient help in the household. Is it a wonder that a girl would prefer clerking in a store for \$2 per week to establishing herself as "hired week to establishing herself as "hired girl" in a large household, where she is treated as a slave? She can not be blamed in the least. There are plenty of girls who would gladly serve others, were they regarded as human creatures with bodies and souls. The majority of them are expected to remain in the bitcher eleven hours out of the the kitchen eleven hours out of the twelve, over boiling soap-suds and redhot stoves, doing the work of three women in their efforts to retain their po-

Now, I say, is it a wonder that the average American girl holds housework with its paltry \$3 per week, in aversion? Is it a wonder that she should prefer the store, where she is treated like a human being, to the duties of a household slave and drudge? As I said before, there are many who would cheerfully take up housework with its endless trials and cares were they considered as equals. If we flood the country with these filthy Chinese labort will become of our own neo ple who are almost begging for employment? W. L. Crouch, if you are an American, stand up for America! Don't attempt to beat down good, honest American industry for degraded foreign labor! Don't attempt to lower our high American standard of integrity and uprightness for the habits and customs of a people who, as a rule, are little better than barbarians!

In speaking of the suffering women of our Nation, why not mention the downfall of many of our American youths? These "pure, neat, and indus-trious" people have established numberless, filthy, low, degraded saloons, and gambling dens, as paths to Hell for the simple, trusting youth of America, who, under their influence, become drunken, demeaned sots of the

Many have asked, "Why not let the 214 W. Ninth St., Kansas City, No

Chinese come in? What harm do they do?" I should answer this question by another, "Why let them come in? What good do they do?" I am aware of the fact that Chinese demand much less for their labor than our own countrymen. Why? Simply because Americans can not do it. They can not afford to work for less than \$1 or \$1.50 where Chinese could do the same for 20 or 25 cents. But what is this for eign labor compared to our American methods? Can we afford to drag our American laborers down to a leve with the Chinese? I now think I have exhausted the editor's patience, and so will close. I shall be glad to hear the opinions of others upon this subect Cottonwood Falls, Kans. F. B.

There is a pretty story in connection with the series of articles which Heler Keller, the wonderful blind girl, ha written for The Ladies' Home Journal written for The Ladies' Home Journal telling about her own life from infanc to the present day. She has alway shrunk from the publicity which follow successful literary work, and it wa with great difficulty that she was per suaded to take up the task of preparin her autobiography. She had, how ever, set her heart on owning an islan in Halifax harbor for a summer home and in a spirit of fun the editor of The Journal offered to buy it for her or to provide the means to buy i When the work of writing appeared especially irksome Miss Keller was reminded of her desire to become a land holder, and it spurred her on. Just be fore Christmas she completed the firs chapter of her marvelous story; an on Christmas morning she receive from her publishers a check for a goo round sum. Her delight may be im-gined, for this was the first money of any account which she had ever earned "It is a fairy tale come true," she said Whether she will really carry out he plan to buy the island remains to b

For a clear complexion, bright, sparl ling eye and vigorous digestion, take Prickly Ash Bitters. It puts the sy tem in perfect order.

The Reason Why



the BEST GRAIN GROW-ING and GRAZING LANDS on the continent are being offered FREE

Location near lines of railroad already built or under construction in Mainttoba. Assintboia, Alberta and Saskatchewan, most favored districts of Western Canada.

Thousands of Americans have taken advantage of the offer made to secure free homes.

Deepsoil, well watered, wooded, wheat averages 25 to 40 bushes per acre; oats 60 to 100 busiles and other grains in proportion. Cattle thrive and fatten on the native grasses. Fuel abundant climate healthlest in the world. native grasses. Fuel climate healthiest in social conditions the I cational advantages of Taxation nominal.

J. S. CRAWFORD,

The Houng Folks.

Conducted by Ruth Cowgill.

A PERFECT WOMAN.

WILLIAM WORDSWORTH. was a phantom of delight
a first she gleamed upon my sight;
rely apparition, sent
a moment's ornament;
eyes as stars of Twilight fair;
Twilight's, too, her dusky hair;
all things else about her drawn
i May-time and the cheerful Dawn;
ncing shape, an image gay,
aunt, to startle, and waylay.

v her upon nearer view, irit, yet a Woman, too! household motions light and free, steps of virgin-liberty; untenance in which did meet t records, promises as sweet; ature not too bright or good auman nature's daily food; ransient sorrows, simple wiles, e, blame, love, kisses, tears, and miles.

now I see with eye serene very pulse of the machine; ng breathing thoughtful breath, veler between life and death; eason firm, the temperate will, rance, foresight, strength, and skill; fect Woman, nobly planned, arn, to comfort, and command; ret a Spirit still, and bright something of angelic light.

A Son of the Soil. V.

A DAY OF EVENTS.

nday morning John felt entirely if again, and walked briskly up college. He was thinking that it ime that his class should be makans for the cane-rush, which was to come off in two weeks, at the the annual junior-senior debate. s the custom for the Freshmen ike their "rush," carrying canes, he audience-room before the beig of the program, and, at its to rush out again with whatever er of canes the Sophomores were to get possession of or destroy. Freshmen got away with a reasnumber of their canes they were d victors, and this was very frethe case, since the Freshmen outnumbered their foes. This however, the classes were very matched as to numbers, the nen being only slightly in the ty, while the Sophomores had a ecided advantage as to weight. was revolving all sorts of plans head. Several of the Freshman ad discussed the matter at diftimes, but there had been no meeting and nothing definite en decided.

e approached the college, think-these things, he saw old black working around the front steps chapel building, whereupon John abruptly aside and made a short ross the campus, so as to enter side-door—for he dreaded a repeof the old man's effusive thanks. ran up the steps and into the room where most of the studad already gathered for the g devotions. Immediately on his he heard a loud clapping of and looked quickly toward the m to learn the cause of it. Only three weeks ago, one of the prohad created some such a comas this by appearing minus his dornment of beard and mus-But John could not see that the faculty had made any note change in his appearance this o as he dropped into his seat,

while a slip of paper had been be rounds of the Freshman class, ch was written, "Class meeting Scott's room at 1 o'clock. IPORTANT. Eleanor Blake, Class

hours later he was rushing to-Prof. Scott's room. His last class ld over the regular recitation so that he found that the rest Freshmen had gathered and lready discussing the business them. A great hulking fellow t arisen to speak. He did not the chair, but turned toward to find flowering shrubs?'
s were sitting. "This thing has be managed awful quiet," he again they carried all the seeds, and and I never heard of anything strewed them far and wide.

way." This was what John had thought, so he listened with interest. So I move that the secretary be asked to take the chair and that the ladies

leave the room."

Eleanor Blake arose from her chair with a glance at the speaker which thought would have shrivelled John him, and, with her head in the air, marched from the room. The other girls were ready to follow her example, but before they had reached the door, a slender, dark-haired boy arose. He was a cripple, and a boy for whom John had taken a great fancy. "I hope the young ladies will not leave the room," he said. "I do not at all agree with Mr. Myers. He probably does not know any better, however,"—a small bit of sarcasm which was quite lost on Myers. "I think some one ought to get Miss Blake to come back. We can not go on with the business of the class without a president in the chair.

John could not fail to mark the contrast between the two speakers-the manly tact of the one, and the evident ill-breeding of the other-a contrast which the difference in face and bearing but accented. And though he had been vaguely thinking the very things Myers had uttered he now felt the impropriety- and unkindness of saying them. "Say, let's have some one go out and get her—tell her we're sorry and we'll be good. Myers is a corker, but some of us know what's what." Carl spoke with characteristic conceit, which made John smile, though some of the others, especially the girls, looked decidedly bored. However, his remark happened to fall in with the general sentiment, so two or three went out and after some time returned with their offended president, whose eyes looked suspiciously red, and whose lip still quivered a little under the white teeth pressed down upon them. She resumed her chair with great dignity and called for a discussion of the business in hand.

The purport of the discussion and the decisions arrived at we shall learn from the results. It was a long meeting, and the Freshmen went around for several days thereafter with an air of importance, quite disproportionate, the Sophomores thought, to their real size and consequence.

This day, however, had one more experience in store for John. As he was walking through the campus on his way to dinner, quite rapidly, for he was very hungry, he heard a shrill little trill, and, turning, saw Miss Blake running toward him. He stopped, rather reluctantly, and she reached him, quite out of breath.

"I almost forgot to give you this," she said. "Doctor Brown told me to be sure to give it to you, but we've had so much excitement I forgot all about

"Thanks," said John, turning away, and in his eagerness to read the note forgetting to lift his hat, an omission which Miss Eleanor was quick to no-

tice.
"Oh, dear," she said to herself. "That's the way with these heroeswhen you see them close to, you find

they're not a bit nice."
This bit of philosophy John did not hear, fortunately. He walked in, feeling quite elated. The note said: "Come to the office at my home, 784 Park street this evening at 7:30, and we'll talk business. F. L. Brown, M. D."

(To be continued.)

The Canyon Flowers.

Jung people whose homes are ed his neighbor "what was ure the wide prairie, Ralph Connor's idiot! they're clapping for the canyon can not fail to be ohn sank down in his seat and the floor would open and swal-

"Then he spoke to the birds, and they carried seeds of every kind of flower and strewed them far and wide, and soon the prairie bloomed with crocuses and roses and buffalo-beans and the yellow crawfoot, and the wild sun-flowers, and the red lilies all the sum-

mer long. "Then the Master came and was well pleased; but he missed the flowers he loved best of all, and he said to the Prairie: 'Where are the clematis and the columbine, the sweet violets and

he could not find the flowers he loved best of all, and he said: 'Where are those, my sweetest flowers?' and the Prairie cried, sorrowfully: 'Oh, Master, I can not keep the flowers, for the winds sweep fiercely, and the sun beats upon my breast, and they wither up and fly away.

Then the Master spoke to the Lightning, and with one swift blow the Lightning cleft the Prairie to the heart. And the Prairie rocked and groaned in agony, and for many a day moaned bit-terly over its black, jagged, gaping wound. But the Little Swan River poured its water through the cleft, and carried down deep black mould, and once more the birds carried seeds and strewed them in the canyon.

"And after a long time the rough rocks were decked out with soft mosses and trailing vines, and all the nooks were hung with clematis and columbine, and great elms lifted their huge tops high up into the sunlight, and down about their feet clustered the low cedars and balsams, and everywhere the violets and wind-flower and maidenhair fern grew and bloomed till the canyon became the Master's place for rest and peace and joy."

FOR THE LITTLE ONES

LITTLE JACK FROST.

Little Jack Frost went up the hill,
Watching the stars and the moon so still,
Watching the stars and the moon so
bright,
And laughing alone with all his might.
Little Jack Frost ran down the hill,
Late in the night when the winds were
still,
Late in the fall when the leaves fell down,
Red and yellow and faded brown.

Little Jack Frost walked through the "Ah," s "Ah," signed the flowers, "we freeze, we freeze."
"Ah," signed the grasses, "we die, we

"Ah," signed the grasses, "we die," die."
Said little Jack Frost, "Goodby, goodby."
Little Jack Frost tripped round and round,
Spreading white snow on the frozen
ground,
Aipping the breezes, king the streams,
Chilling the warmth of the sun's bright

But when Dame Nature brought back the But when Dame Nature Brought
spring,
Brought back the birds to ch'rp and sing,
Melted the snow and warmed the sky,
Little Jack Frost went pouting by.
The flowers opened their eyes of blue,
Green buds peeped out and grasses grew.
It was so warm and scorched him so,
Little Jack Frost was glad to go.
—Selected.

Two Little Fish.

There are two little fish that used to live in a little glass globe. One of them is gold-colored and the other is silver-colored. They darted here and there in the clear water, and the children loved to watch them. The silver-colored fish is the bigger one, and the children have named it William. The bigger fish liked to swim after the little one (whose name is Mary Ann Jane). Sometimes William used to bite poor little Mary Ann Jane's tail, the children thought that was furny, but if Mary Ann Jane could talk she would have said: "Big fish that run after little fish to hurt them are cowardly and cruel."

But I want to tell you a story about what happened to these little fish one

The children have a big black cat with white spots; and one day, when the children were all eating their supper, this big black cat went into the parlor. Now kitty had not had his supper yet, and he felt hungry, so he thought he would just look around him to see if there were anything for a hungry cat to eat. He walked over to sky Pilot," and its quaint and simple beauty make it well worth retelling.

Yenerable president arose and a few kindly, dignified remarks the fire and the conduct of the who had chanced to see it, and roceeded with the usual exerwhile a slip of paper had been the rounds of the Freshman class.

Sky Pilot," and its quaint and simple beauty make it well worth retelling.

"At first there were no canyons, but only the broad, open prairie. One day the Master of the Prairie, walking out over his great lawns, where were only grases, asked the Prairie, "Where are your flowers? And the Prairie said, "Master, I have no seeds."

So he stood still thinking about it, when suddenly his eye fell upon the little glass globe. "Well, see here!" says one corner where there was a mouse-

tle glass globe. "Well, see here!" says kitty to himself. "There's something I had not observed before. I'll just go a little closer and see what those little things are that are moving around so briskly.'

So he jumped up onto the table and ooked in. When the little fish saw those great green eyes staring in at them, they darted around faster than ever, and William stopped biting poor Mary Ann Jane's tail.

After while kitty said to himself, "I believe maybe those little things would taste good to a hungry cat," and he thrust his big paw down into the water.

BIGGER BOX SAME PRICE THE MODERN STOVE POLISH Brilliant, Clean, Easily Applied, Absolutely **Odorless** LIQUID-BETTER YET! FIRE PROOF!

and the noise frightened him, and he went running out of the room as fast as he could go.

But the children heard the crash of the globe upon the floor, and they rushed in to see what was happening. When they saw their pretty little fish gasping on the floor, the biggest boy said: "Run quick and bring a bowl with water in it or the little fish will die." For you know fish can't live without water any better than you can without air; if somebody would hold your mouth and nose so that you could not breathe, then you would feel just as poor little William and Mary Ann Jane felt as

they lay gasping on the floor.

But when the children put them into a bcwl of nice, clean water very quickly, then they felt just as happy as ever and darted around in it just as if they liked it as well as their pretty glass

After that, the children never allowed the black cat to come into the room where they kept William and Mary Ann Jane; and the next time the children's mama went to town, she got another largor globe for them, and that is where they live now. And since that dreadful day when they were nearly killed, William never has bitten little Mary Ann Jane's tail!

One chief characteristic of the last century was the extension of the benefits of education to the masses of the people. Its chief lesson was that education increases the wealth-producing power of a people in direct proportion to its distribution and thoroughness. The relations between education and productivity are so well understood now that you can measure the wealth-producing power of a people by the school privileges which they enjoyed. Statistics show, for example, that the power of the people of the different States to earn money is in direct proportion to the length of the period that the average citizen of each State has attended school.—The World's Work.

"What seems to grow fairer to me as life goes by is the love and peace and tenderness of it; not its wit and cleverness and grandeur of knowledge, grand as knowledge is, but just the laughter of little children and the friendship of friends and the cozy talk by the fireside and the sight of flowers and the sound of music."

Except a aving man, there is nothing more wonderful than a book—a message to us from the dead-from human souls whom we never saw, who lived, perhaps, thousands of away, and yet these, on those little sheets of paper, speak to us, amuse us, teach us, comfort us, open their hearts to us as brothers.—Kingsley.

"There is health in the garden-the health that comes from outdoor influences and relaxation, and the pleasant companionship of the flowers we love. The flower-garden has saved many a doctor's bill."

It is possible to see the flowers while one plows, and while one stops to rest from toil. It will make the plowman happier. And nappy people are apt to be good people."

When the breath is foul and the appetite disordered, Prickly Ash Bitters He didn't catch any fish, but he tipped is the remedy needed. It purifies the the globe over and spilled the poor lit- stomach, liver and bowels, sweetens the were in being done that "But, again, when the Master came, the frightened things onto the floor; breath, promotes vigor and cheerfulness.



PURIFY THE BLOOD

If you would have health and energy in hot weather you should see to it in the early Spring that your blood is pure and vital organs strong and active.

PRICKLY BITTERS

THE GREATEST BLOOD PURIFIER ON EARTH.

The efficacy of this remedy in purifying the blood and putting the system in order is without a parallel in the medical world. So thorough and far-reaching is it that it carries its great cleansing and regulating influence to every part of the body, casting out impurities that have resulted from Winter diet, purifying the bowels, strengthening the kidneys, liver and stomach, and pre-paring the entire body to resist the disease germs which come with warm veather. Those who use this great purifier during the Spring months will stand the heat better and be free from the debilitating ailments which invariably attack the body that is clogged up with impurities.

SOLD BY ALL DRUGGISTS.

PRICE, \$1.00.

Cheap=Rate Excursions California

April 22 to 27, account National Convention, Federation of Women's Clubs, Los Angeles. Anybody may go—at \$45.00 round trip from Topeka. Corresponding rates from all points east.

Choice of direct routes returning; final limit June 25. On the way visit Indian Pueblos, Grand Canyon of Arizona, Yosemite and San Joaquin Valley. The Santa Fe is the comfortable

way to go—superb service of The California Limited; personally-conducted tourist-car excursions; Harvey meals, best in the world. Write for our books, free.

Address, T. L. KING, Agt., Topeka.

Santa Fe

The Poultry Yard.

Preserving Eggs.

EDITOR KANSAS FARMER:-Is there such a thing as egg-preserver; and do you think eggs can be bought and pre-served in summer and be as good as fresh eggs in the high-price season? Kindly answer through your paper.

Lucas. Kans. ARTHUR ALLGOOD.

Lucas, Kans.

In the last three or four years the method of preserving eggs with a so-lution of water-glass has been often tested both in a practical way and in laboratories. The North Dakota Experiment Station has been especially interested in the problem. In these experiments, a 10 per cent solution of water-glass preserved eggs so effectually that "at the end of three and onehalf months eggs that were preserved the first part of August still appeared to be perfectly fresh. In most packed eggs, after a little time, the yolk settles to one side, and the egg is then inferior in quality. In eggs preserved for three and one-half months in water-glass, the your retained its normal position in the egg, and in taste they were not to be distinguished from fresh store eggs. Again, most packed eggs will not beat up well for cake-making or frosting, while eggs from a waterglass solution seemed quite equal to the average fresh eggs of the market." Water-glass, or soluable glass, is the popular name for potassium silicate or

for sodium silicate, the commercial article often being a mixture of the two. The commercial water-glass is used for preserving eggs, as it is much cheaper than the chemically-pure article which is required for many scientific purposes. Water-glass is commonly sold in two forms, a sirup-thick liquid, about the consistency of molasses, and a powder. The thick sirup, the form perhaps most usually seen, is sometimes sold wholesale as low as 1% cents per pound in carboy lots. The retail price varies, though 10 cents per pound, according to the North Dakota Experiment Station, seems to be the price commonly asked. According to the results obtained at this station a solution of the desired strength for pre-serving eggs may be made by dissolv-ing one part of the sirup-thick waterglass in ten parts, by measure, of water. If the water-glass powder is used less in required for a given quantity of water. Much of the water-glass offered for sale is very alkaline. Such material should not be used, as the eggs preserved in it will not keep well. Only pure water should be used in making the solution, and it is best to boil it and cool it before mixing with the water-glass. The solution should be carefully poured over the eggs packed in a suitable vessel, which must be clean and sweet, and if wooden kegs or barrels are used they should be thoroughly scalded before packing the eggs in them. The packed eggs should be stored in a cool place. If they are placed where it is too warm silicate deposits on the shell and the eggs do not keep well. The North Da-kota Experiment Station found it best not to wash the eggs before packing, as this removes the natural mucilaginous coating on the outside of the shell. The station states that one gallon of the solution is sufficient for fifty dozen eggs if they are properly packed.

It is, perhaps too much to expect that eggs packed in any way will be just as satisfactory for table use as the fresh article. The opinion seems to be, however, that those preserved with water-glass are superior to most of those preserved otherwise. The shells of eggs preserved in water-glass are apt to crack in boiling. It is stated that this may be prevented by puncturing the blunt end of the egg with a pin before putting it into the water.

Hens that are willing to lay are good property these days. Eggs have been high and are getting higher, but the advance at present is only temporary, and as soon as mild weather comes there will be a drop in prices that will be very acceptable to the city house-holder who has been compelled to eat his toast without eggs for some weeks. Hens have apparently not been very busy this winter, for supplies of eggs have been short since Christmas. At this season of the year eggs usually are the highest in price. The cold weather and the extra demand during the Lenten season bring this about. In February, 1873, eggs som up to \$1 per dozen, which was the record price.

The pure-bred cattle business is not the only branch of the blooded-stock industry that is growing. We should not

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50 Cents, 75 Cents, \$1 and up. Circular Free J. C. WITHAM, Cherryvale, Kans.

PURE-BRED, farm raised Barred Plymouth Rock eggs. \$1 for 15; \$5 for 100. J. A. Sawhill, Edgerton, Kans

BARRED ROCKS—Exclusively; the farm for range. The largest flock in the west; nothing but strictly first-class show birds used. Eggs \$1.25 for 13. Jno. D. Zil-ler, Hiawatha, Kans.

HIGH CLASS POULTRY—Silver Wyandottes, White Wyandottes, and White Plymoth Rocks. Eggs for hatching, 15 for \$1. R. F. Meek, Hutchinson, Kans.

FOR SALE—Bard Plymouth Rocks and M. Bronze turkeys of high quality. Write your wants and for prices. M. S. Kohl, Furley, Kans.

SIXTY MAMMOTH BRONZE TURKEYS—Two separate pens, headed by a 42-pound tom. Address Mrs. Fred Cowley, Columbus, Kans.

FOR SALE—Choice blue-barred Plymouth Rock cockerels, \$1 to \$1.50 each. Address Mrs. L. Hothan, Carbondale, Kans.

White Wyandottes Exclusive.

The big white kind that wins prizes and lays eggs. Stock for sale. Eggs in season.

C. H. WILLSEY, Dexter, Kans.

become so excited over the big prices paid for bulls and heifers as to forget that "there are others" who are entitled to praise for their success. Only the other day 105 Poland-China hogs sold for \$13,050, an average of \$124.30 per head. A man in New Jersey paid \$30 for a single Buff Cochin egg, and several sales of Plymouth Rocks at \$75 a pair have been made recently. All kinds of pure-bred live stock are now worth more money than ever before; therefore the man who has good stuff to sell is very fortunate.—Drover's Journal.

One of the most gorgeous catalogues that we have seen issued by any school is that which comes from the Chillicothe Normal Business and Shorthand College, of which Mr Allen Moore is president. This school embarces seven different courses in education as shown by their advertisement in another column. Their faculty is made up of twenty-five men and women, who are experts in their several lines of teaching. The building is a very large and handsome three story structure, occupying its own ground and divided so as to be really three buildings. The rates of tuition are made to include board, room-rent, text books, and everything needed for a successful course, and are remarkably cheap for the instruction and facilities offered. The young ladies are provided with residence buildings near the college, which are fitted and furnished with every comfort and convenience. This catalogue is of specimens of somebody's handwriting and pen drawing, but represents straight business from one cover to another, and we suggest that it would be a good thing for every young man who desires training along the lines offered by this institution to write at once for the catalogue. One of the most gorgeous catalogues that

The Wichita Nursery, owned by W. F. Schell, Wichita, Kans., is a remarkably successful institution, and trees, fruit and ornaniental, sent out have given the best of satisfaction, owing to the practical culture in an ideal location. Mr. Schell is one of the most skillful in his line. Write him for prices.

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CLARINDA, IA.

Have at Stud-HOBSON and NOBLE BRANDANE, stred by Imported Brandane Rightaway, possibly the best Collie that ever left England, a winner and a stre of winner pupples of either sex, for sale. Prices reasonable.

W. B. WILLIAMS, Proprietor, Stella, Neb.

G. W. SHUMAN, Ft. Scott, Kans., Breeder of LIGHT BRAHMA, BARRED PLYMOUTH ROCKS, and PARTRIDGE COCHINS.

Eggs \$1.25 for 15. Address at 1238 East Wall St.



Barred Plymouth
Rocks, White Plymouth Rocks, Bun
Cochins, Partridge Cochins, Light Brahmas, Black Langshans, Sliver Wyandottes,
White Wyandottes, Sliver Spangled Hamburgs, Brown Leghorns, and Belgian Hares
First - class Standard Stock of Supe ior
Quality. Stock For Sale. Eggs in Season.
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is needed to run the Sure Hatch Incubator. They are so simple that they run themselves. Made of California redwood, beautifully in mished; twelve ounce coppertant, and hydro-safety lamp. Fully guaranteed. Our catalogue contains hundreds of photographs of the Sure Hatch Incubater at work, and valuable information. Sent free.



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bators for safety and success.

is taking the lead among Incu-bators for safety and success.

St. Augustine, Fla., April 81, 1901.

I made one hatch that proved a 100 per center.

C. F. Winton.

Sold at a low rate and guaranteed in every way. We have a new catalogue fully illustrated and filled with happy thoughts on question of Poultry Culture. Published in 5 languages—5 separate books. English edition, 154 pages, 4 cents postage. Others 80 pages, free.

Des Moines Incubator Co., Box 83 Des Moines, Iowa.

Gossip About Stock.

(Continued from page 273.) (Continued from page 278.)
chison, Kans., have secured a limited quantity of good seed-corn which was grown in the Missouri River Valley in the immediate vicinity of Atchison. Mr. Thayer is a dealer in the city and inquiry among the business men resulted in the general statement that they knew little of seed-corn but the man is perfectly reliable. See his advertisement in another column.

A crack quintet of Poland-China sows will be represented in the big sale to be held at Paola, Kans., March 15. Nettie U. S. comes first. She is by Welch's Black U. S., and out of Jannette by Young U. S. Of Jannette Mr. Welch says he never owned a better sow. Almost with her, Mr. Shelton, who owns all three, classes Nellie One Price, a daughter of the original One Price and out of a Tecumseh I. X. L. dam. Miss Best Black U. S is a daughter of Black U. S. 4209, and her dam, Tecumseh U. S. (by Tecumseh Chip 3d and out of Black U. S. Blaine 1st by Black U. S. 2209. Royal Queen 3d is by Royal Wilkes 3d, and out of the \$252.50 sow, Look Over Style, by the second prize in class and head of first herd at the Illinois State Fair in 1900. At this show it was also a litter of his (in-bred) prize that won first. Kellogg 15th, a granddaughter of Ideal Sunshine, traces three times to Tom Corwin 2d.

shine, traces three times to Tom Corwin 2d.

Messrs, Dietrich & Spaulding, of Richmond, Kans., will consign to the Poland-China sale at Paola, Kans., March 15th, (C. P. Shelton, Mgr.), daughters of and sows bred to Ideal Black Chief, the top boar in J. R. Young's sale at Richards, Mo., 1899. Shrewd breeders and buyers of the choicest and best will be well pleased with the offering of C. P. Shelton, at Paola, on March 15. The stock consigned is practically the same as tthe stock bred by Welch, Willson of Chio, that brought such big prices at E. Jimison's sale at Oneida, Ill., Feb. 5. The three gilts out of Nettle U. S., by Welch's Black U. S., and the five gilts out of Nina One Price, by Welch's Black U. S., her dam by Old One Price. These gilts are hard to beat anywhere, and are mostly bred to On Top, the greatest yearling in Kansas. Two large yearlings by Black Chief's Rival, safe in farrow to U. S. Chief 2d by Old U. S. Chief, are topnotchers and should be sought after by breeders. These fine yearlings were bred by C. H. Drake and consigned to this sale as crack stuff. There is also one large, massive two-year-old out a granddaughter of Ideal Sunshine, consigned by Fred Lampe, of Ohio, Also two extra sows by Perfection, dam Rie 2d 102522, No. 12 in E. L. Jimison's sale at Onedia, Ill., February 12 She was bought by Winn at \$220. These two swas are safe in farrow and are litter sisters to Ed. Klever's boar, Happy Perfection, for 'which he received \$500. There will not be two better sows sold in any sale West this season.

Users of incubators have found one serious trouble which is only obviated by constant watchfulness on their part. This is the tendency for the corners of the incubator to fail to receive sufficient heat. Most machines being so constructed as to throw the heat into the machine without special reference to its proper distribution and the necessary ventilation. The Hiawatha Incubator Company, of Hiawatha, Kans., has solved the problem of preventing cold corners in an incubator by a device which heats the corners first, and at the same time prevents the accumulating foul gases in the egg chambers. This incubator is made of the best materials, is self regulating, has a double thermostate, is lined with asbestus, and is absolutely fire-proof. They are sold under the guarantee that if from any cause or fault of the machine they do not give satisfaction they may be returned after thirty days' trial and the money will be refunded. The freight is prepaid on them to destination, and taken in connection with their new design of brooder which needs only an ordinary broom to clean it and which is thoroughly warmed and ventilated without any place for insect pests or germs to secrete themselves, it certainly makes a great combination that is hard to beat. If you will write for one of their catalogues we feel sure you will be pleased with it. See their advertisement in another column.

Regarding the consignment of Poland-Chinas by Dietrich & Spaulding in the C. P. Shelton sale at Paola, Kans., on March 15, the following is given to a Kansas

WE HAVE HEARD OF IT BEFORE

There is no necessity for us to suffer pain and endure useless agony. There is a remedy for all aches and painsfor Rheumatism, Gout, Lumbago, Neuralgia, Scattica, Pleurisy, Soreness, Stiffness, Headache, Backache, Pains in the Limbs and Pains in the East, that remedy is Feet, that remedy is

St. Jacobs Oil

It never fails. It acts like magic. Instantaneous relief from pain always follows. It has cured thousands of cases which had been given up as incurable. One trial will convince any sufferer that St. Jacobs Oil

Conquers Pain

Price, 25c and 5oc.

SOLD BY ALL DEALERS IN MEDICINE.

Farmer representative: "Among our offering is McPride, a yearling sow by the Omaha winner, Chief Tecumseh 3d. This sow has great size and fine finish and is a great breeder. We shipped two of her gilts to Europe this season. She is safe in pig to Ideal Black Chief, the best son of Missourl's Black Chief. Another fine sow is Contralto Choice by Majestic Chief by Chief Tecumseh 2d, dam Black Chief Lady by Missourl's Black Chief. Look at this blood! And she is safe in pig to Ideal Black Chief. Lassie U. S. 2d raised a fine fall litter. She is by Knox All Wilkes, and her dam is a granddaughter of Chief Tecumseh 2d and Black U. S. "What Blood" is sale in pig by Double Chief, a double cross Missourl's Black Chief boar and a good one. We will offer a March boar by Ideal Black Chief, dam McPride. This fellow is fit to head a good herd, and we trust some good breeder will appreciate him and draw him out. Another May boar is a grandson of Black U. S. and sired by Knox All Wilkes. Look at his back, feet, legs, and hams and you will want him. We have made this same cross for five years on this sow, and we know that they all make great producers. Head your herd with him, you will not miss it. Come and see the good things, we have lots of them, and we give you our word of honor you will not be disappointed."

things, we have lots of them, and we give appointed."

In reeferring to the high character of the public offering of Poland-Chinas by W. P. Goode, at Olathe, Kans., on March 10, Mr. T. W. Morse says: "Almost any breeder who has attended the leading Western sales for the past fifteen years, knows that when Mr. Goode 'showed up' on the scene, he was very apt to carry away one of the tops. His judgment and determination are well matched—and both strong; and, being persistently using both the faculties it is easy to imagine the quality of stock he has gotten together. It would be interesting to know how many sows in this offering are out of 'tops' from some big sale. But there is Mr. Goode's one weak point—he buys them, puts them to work in his herd on their merits, and the reputation, which keener advertisers would turn into capital for years to come, he leaves the stock to make with its own produce. Last year he topped the two greatest representative sales of the country—the Shellenbarger sale in Ohio and the Axine sale in Missouri, yet no mention of it is found in his catalogue, nor have we ever seen that point alluded to. By way of illustrating what Mr. Goode does when he tops a sale we will call attention to his Shellenberger purchase, the International champion sow, Split Silk. This gilt (she showed at nine months), won first in class, was in the first prize entry for produce of sow and in the second prize entry for get of boar, and finally was declared champion over all females of the breed. Probably no sow ever made a record equal to that of this nine-months gilt. She was just good enough for Mr. Goode, and he bought her and probably in his next sale her pigs will be offered on their merits. Mr. Goode, at the same sale, bought a half sister to Split Silk and a sow bred to Big Chief Tecumsh 2d, the sire of Split Silk. The half sister is No. 7 in the coming sale, and we wiil just add to Mr. Goode's foot notes a statement of prizes won by produce of Big Chief Tecumsh 2d, for the year of 1900. The full list, mo

Of these eleven firsts, five seconds, and two championships were won at the recent International."

When time is called for open doors at the Ryan draft sale of select Scotch and Bates Shorthorns, March 13, there will surely be assembled at Omaha the most widely representative gathering of Shorthorn admirers and enthusiasts of the year. Conditions are ripe for an unusual demonstration at this time. The spirit of enterprise that is abroad in all pure-bred beef cattle circles is founded upon the rock of natural wealth in our Western farms and ranges. It is therefore in accord with the eternal fitness of things that this big sale of Shorthorn riches should open its doors at Omaha—the gateway to the finest cattle growing country on earth. It is an open secret that this fine offering comes from the lap of one of the best kept Shorthorn breeding establishments in the Missouri Valley country. T. J. Ryan & Sons are giving freely of the very best treasure their great herd affords. Their offerings embrace as fine a line of good Scotch matrons as may be sighted in any sale ring of the year. These good cows are not simply of desirable Scotch extraction—not simply of desirable Scotch bread in twist, thick and level in chine, crops and loin, with well sprung rib. They are cows of scale and quality, pleasing both the eye and the hand; and, while they thus typify the highest form of Scotch breeding, they will at the same time be found to be of exceptional useful character. These cows will be sold with calf at foot or well along in calf to the service of the highest class of Scotch buils in the country. The catalogue and breeding list are explicit upon this point, and the cattle bear out every representation to the letter. So fine and full a procession of pure Bates cows has not been witnessed in a single sale in recent years. They are truly of the sort to be appreciated, presenting as they do the purity

THE MARKETS.

Kansas City Grain Markets.

Topeka, Kans., March 3, 1902.

The grain markets throughout last week have been slow and gradually seeking a lower level. The visible supply of wheat in America decreased only about 300,000 bushels, while the shipments from all parts of the world were 7,142,600 bushels, which in creased the available stocks of wheat in the world's market centers nearly two million of bushels. Much of this wheat pressing on the market for sale, is wheat from western Canada, which of course although raised upon our borders can not compete in

our own country on account of the tariff, but it competes in foreign markets with our wheat to a considerable extent.

Not much alarm is being caused on account of alleged damages to the growing crop of wheat. The Government Weather Bureau's February summary of crop conditions says: "Moderate rains have relieved the drouth situation in eastern Texas and the South, and rain on the Pacific coast has been abundant. The northern portion of the winter-wheat belt was generally well protected by snow during the month, and an improvement is indicated in northern Ohio, Indiana, Illinois, and Missouri, while it looks less favorable for the southern portions of these States and in Kentucky, Tennessee, and Arkansas. In California and western Oregon conditions are much improved and cold weather did not injure wheat in Washington; in Nebraska and Kansas the wheat crop is in a promising condition." Now, this is the crop summary of the Government Weather Bureau; but from rumors floating around. I hardly think the Kansas farmers will agree with the Government crop report will be issued next Monday, March 10, at 3 p. m. This report, the first one of the year, will give the amount of wheat, corn, oats, and other cereals in farmers' hands on March 1. It is also likely that the several State statisticians will make reports as to crop conditions and crop surplus about this time. Until this news item is out of the way, there will not be much change in prices either one way or another.

Crop conditions in Russia are said to be much below those of last year at this time, while it is claimed Argentine prospects for a corn crop are much improved. At any rate grain shipments from Argentine are a little on the increase. The Southwest is still holding on to its wheat, which causes higher prices for winter wheat than spring wheat, and places Southwestern millers at a great disadvantage compared with Minnesota millers, who are selling their flour now in territory rightfully belonged to Kansas millers.

The receipts of corn are falling off ver

coming Government crop-report out of the way.

Markets closed as follows to-day:
Chicago.—No. 2 red winter wheat, 82 to 83c; No. 2 hard winter wheat, 76 to 76½c; No. 2 corn, 66½c; No. 2 cats, 44½c.

Kansas City.—No. 2 red winter wheat, 80 to 81c; No. 2 hard winter wheat, 73½c; No. 2 corn, 60½c;; No. 2 white corn, 64½ to 65c; No. 2 cats, 45c.

F. W. FRASIUS. F. W. FRASIUS.

Kansas City Live Stock Markets.

Kansas City Live Stock Markets.

Pebruary 4, 1902.

Despite large receipts, the cattle market at this point showed a fair advance last week, and closed 25c higher than at the former period. Arrivals were right at 27,000, an increase of 7,000 from the previous seven days, but a shortage of 4,400 from a year ago. Receipts for the month of February were 96,970, a loss from last year's figures of about 40,000 head. Local packers discriminated against big heavy cattle somewhat during the week, and consequently the main advance was in medium weights, or medium priced stock worth around \$5.50. Arrivals showed but a moderate supply of heavy cattle, which probably kept them in line during the week. Shippers at present need have no worry of medium to light weight butcher-stock meeting with a depressed market, for the time of the year is approaching when the killers will want smaller cuts. The way they are taking hold of the light weight stock at present is strong indication of a good feeling in such cattle during the spring months. The supply of butcher heifers and cows was rather limited all week, and as a result they have been in excellent demand every day. Old canners, being somewhat out of season, did not show any strength, but the butcher grades took a turn for the better. A feature of the market has been the veal-calf trade. Plain calves easily command \$5 and the best from \$6 to \$6.75. Poorer classes of stock cattle eased off 10 to 15c towards the close of the week, but fleshy kinds held steady. The near approach of the grazing season is expected to infuse considerable life into the market for lighter weight stockers.

Sheep fluctuated considerably during the week, first advancing a little, then declining and finally regaining the lose closure.

life into the market for lighter weight stockers.

Sheep fluctuated considerably during the week, first advancing a little, then declining and finally regaining the loss, closing about the same as the preceding week. Choice natives sold up to \$6.50, which seems to be about the limit the buyers are willing to pay. Receipts amounted to 13,400 head, against 10,500 the previous week.

Both horses and mules sold stronger last week. Arrivals were fair at 2,500 head, a gain over both the foregoing week and a year ago. The feature of the horse market is the strong inquiry from the East for fat chunks, and the point of interest in the mule trade is the excellent demand had for farm mules. Good, rugged mules, 15½ to 16½ hands, are bringing more as farm animals than the Southern buyers are willing to give.

Elgin Butter Market.

Elgin, Ill., March 3, 1902. The quotation committee announce but-ter 28c.

00-00-00-00-00-00 "THE HIAWATHA"



is the only Iucubator on the market that heats the corners first. It is self-regulating, self-ventilating and requires no supplied moisture. It has been pronounced by

poultry experts to be the most successful hatcher yet invented.
We pay freight to any railway point in the

United States. Send for free catalogue. THE HIAWATHA INCUBATOR CO., Hlawatha, Kansas.

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Cures Goitre

Great Medical Discovery that Cures this Dangerous and Disfiguring sease at Home Without Pain or Inconvenience. Disease

TRIAL PACKAGE SENT FREE

A well known Cincinnati physician has had marvelous success with a remedy that always cures Goitre or Thick Neck quick-ly at home; and owing to the fact that most sufferers believe Goitre is incurable



HORRORS! WHAT A NECK!

he sends a free trial package of his discovery so that patients may try it and know positively that their Goitre can be cured at home without pain, dangerous surgical operation or any inconvenience.

Dr. Haig can cure any Goitre quickly and safely in your own home. It makes no difference how serious your case may be, just write him to-day telling your age, size of your Goitre, what part of the neck it is on and how long you have had it and he will send you by return mail the free trial package, postpaid, of the remedy that will surely cure you.

Do not delay but write to-day to Dr.

Do not delay but write to-day to Dr. John P. Hadg, 3659 Glenn Building, Cincinnati, Ohio, and he will forward the treatment, postage prepaid. Do not fail to get this wonderful remedy. In Bombay, India 60,000 patients in that infected district were cured with this same remedy, and wherever used its success has been marvelous.

TESTED SEED-CORN

Northern-grown I. X. L. Yellow Dent and Iowa Silver Mine. The two best varieties in existence. Medium early, productive, of highest quality, resist drouth well, Seed selected and cured with great care. Every ear in-spected by experts. I raise all my seed. Price, \$1.75 per bushel, 2 bushel bags 15 cents extra. Send today. Illustrated circular free.

W. H. WILSON,
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The BEST Mills, the LOWEST Prices



Geard back and direct strokewind mills, steel mills, steel tow'rs, steel tanks, ungeared and triple geard feed grinders, free catalogue,

CURRIE WINDMILL CO., Topeka, Kansas,

Some People Gall It Luck



Famous" St. Joe Listers and Disc Cultivators. The Listers scour always and run deep. The St. Joe Disc Cultivators for listed corn can be adjusted for 3 imes over the corn plowing 20 acres a day better than you can hoe it. Send for catalogue. Department K ST. JOSEPH PLOW CO., ST. JOSEPH, MISSOURI.

When writing our advertisers please mention Kansas FARMER.

Special Mant Column.

"Wanted," "For Sale," "For Exchange," and small or special advertisements for short time will be inserted in this column, without display for 10 cents per line of seven words or less, per week. Initials or a number counted as one word. Cash with the order. It will pay. Try it.

SPECIAL.—Until fuather notice, orders from our subscribers will be received at 1 cent a word or 7 cents a line, cash with order. Stamps taken.

CATTLE.

BEULAH - LAND FARM—Has for sale young Red Polled bull calf, \$50. Cows and helfers, \$75 up. Poland Chinas, choice and cheap. Wilkie Blair. R. R. 1, Gi-rard, Kans.

FOR SALE—A thoroughbred Hereford bull, 4 years old, weighing 1,800 pounds. Splendid breeder, his spring calves now weighing 800 pounds. Call on or address A. Woodcock, Bronson, Bourbon Co., Kans.

FOR SALE—My herd bull, Model 147941, he by Glendower 103387. Ought not to use him longer. Is good enough to head any herd east or west. Is red, extra heavy bone. Will be 4 in May next, and weigh about 1,800 pounds; no trade. L. F. Parsons, R. R. 3, Salina, Kans.

FOR SALE—Or trade for one equally as good—my Shorthorn bull, Roscoe 136818. Gentle and a good breeder; 4 years old. O. A. Rhoads, Columbus, Kans.

FOR SALE-Two pure-blood Shorthorn bulls, & high-grades. James Ely, Aulne, Kans.

FOR SALE—Four Galloway bulls, 1 and 2 years old also a few year-old helfers, all registered, and good in dividuals. Thos. Gribben, Hope, Kaps.

I HAVE 15 registered Aberdeen-Angus bulls for sale, from 8 to 24 months old; also some choice females that must sell. A. L. Wynkoop, Bendena, Kans.

FOR SALE-Three pure Cruickshank-Shorthorn pulls. Call on or address H. W. McAfee, Topeka,

THE STANDARD CATTLE COMPANY has 12,000 agres of the richest land in the west; and will receive applications from tenants desiring to lease land. We also want men with families to work in beet-fields. Correspond with Standard Cattle Company, Ames, Neb.

D. P. NORTON—Dunlap, Kans., will sell long and short yearling Shorthorn bulls at price of calves.

FOR SALE—Three registered Hereford bulls; also a few high-grades. Inspection of foundation stock invited. A. Johnson, Clearwater, Sedgwick Co., Kans.

SHORTHORN CATTLE SALE—I will offer at public sale, 1½ miles south of Marysville, at 2 o'clock p. m., on Tuesday, October 15, 17 registered Shorthorns, 19 high grade Shorthorns, and 3 thoroughbred Jerseys. Lewis Scott, Marysville, Kans.

HORSES AND MULES.

HAMBLETONIAN STALLIONS—For sale, 2 fine stallions, coming 4 and 5 years, splendid individuals. Six crosses Hambletonian 10th blood and tracing direct to Justin Morgan. W. A. McCarter, Topeka, Kans.

FOR SALE—The black imported Shire stallion, Nailstone Masher, 13 years old, weight 1,850 pounds perfectly sound; a No. 1 breeder. Price right for cash Can send photos. Lewis J. Cox, Concordia, Kans.

PERCHERON STALLION FOR SALE—A pure-bred, black, 4 years old; a magnificent breeder, with pedigree unexcelled. W. T. Pence, 1335 Topeka Ave., North Topeka, Kans.

WANTED TO LEASE—A fine jack, on the shares with privilege of buying; to make season with my other stallions in the best jack country. Geo. Bow man, Calumet, O. T.

STRAYED OR STOLEN—One bay horse, spot in forehead, hind foot white. Geo. A. Real, 4th and Monroe streets, Topeka, Kans.

TWO BLACK JACKS cheap for cash. Will exchange for other stock. Box 8, Moran, Kans.

FOR SALE—On account of my moving I will sell very cheap two Percheron stallions and one 16-hand jack. S. S. Spangler, Ness City, Kans.

FOR SALE OR TRADE—For a good jack, my Percheron stallion, dark gray, weight, 1,700 pounds; a fine breeder and a sure foal-getter of high-class horses. Address W. Q. Hyatt, Carbondale, Kans.

TO TRADE-For draft stallions, one of two good jacks. J. Sharrock, Girard, Crawford Co., Kans.

FOR SALE—A car-load Coach-bred mares, 2 to 5 years old. All bred from native mares. W. Guy McCandless, Cottonwood Falls, Kans.

FOR SALE—One span of well-matched, black work nares. Brookhaver Bros., Eureka, Kans.

FOR SALE OR EXCHANGE—A fine 3-year-old road stallion, should at maturity be 16½ hands high and weigh 1,200 pounds. A nice bay and good mover, with plenty of Hambletonian blood in him. Call on or address C. O. Chapman, Lakin, Kearny Co., Kans.

FOR SALE—French Coach stallion, Bismark 1925. Address C. E. Hayes, Stanley Iowa.

FOR SALE—Black Percheron stallion Monthaber 13162 (24057), 12 years old, weight 1,800 pounds; an extra breeder; price \$400. Address G. W. Southwick, Riley, Kans.

REGISTERED stallions, mares, and jacks for sale, one mile west of Hartford, Lyon County, Kansas, Three registered Percheron stallions, 3 registered Percheron mares; 3 registered Hackney mares; 1 stallon Standard-bred, Rubin 112844, sired by Lord Russell, lion Standard-bred, Rubini 12844, sired by Lord Russell, sire of Maud S and grand sire of Miss Previous, sold at Marcus Daly's sale as a yearling for \$10,300; and Prelatiss for \$4,600; 1 large black jack, good and sure breeder; 3 work mares; I carload of Hereford helfers; 3 top crosses. Address Thomas Evans, Hartford, Kans., or see B. F. McCormick on place,

FOR SALE-Four big black jacks. Address J. P. Wilson, Wellsville, Mo.

FOR SALE—Two jacks 5 years old. One Shire and two Belgian stallions. Address Chas. H. Guffin, Scandia, Kansas.

FOR SALE OR TRADE—Two large, black jacks mealy points, 3 and 4 years old. E. E. Potter, Sterling Kans. (36)

FOR SALE-At a bargain-young draft stallions. A. I. HAKES, Eskridge, Kans.

PROSPECT FARM—CLYDESDALE STALLIONS SHORTHORN CATTLE and POLAND CHINA HOGS. Write for prices of finest animals in Kansas H. W. McAfee, Topeka, Kansas.

SHEEP.

FOR SALE—Plain Merino ewes, 150 head; Merino rams, 45 head; at low figures for quick sale. L. C. Walbridge, Russell, Kans.

LAST CALL—One June, 2 May and March Duroc Jersey males, been used in my herd, can spare them Registered. M. H. Alberty, Cherokee, Kans.

POLAND-CHINA HOGS, Shorthorn cattle, and Barred Plymouth Rock eggs, for sale cheap. George Manville, Dearborn, Mo.

LARGE ENGLISH BERKSHIRE BOARS, sows and glits, safe in pig to two of the best boars in the West, for sale. E. J. Oliver, Lone Spring Farm, Dearborn, Mo.

FOR SALE—Choice pigs from Large English Berkshires; recorded stock. Early yellow soy-beans, at \$1.75 bushel, sacked. H. M. Starns, Lafontaine, Kans.

FOR SALE OR TRADE—My herd boar for a good sow, bred; also for sale two good males sired by Proud Perfection, dam by Missourl's Black Chief. Call on or address Wm. Maguire, Haven, Kans.

POULTRY.

FOR SALE—NICE LARGE PURE-BRED MAM-MOTH BRONZE TURKEYS, AND S. C. B. LEG-HORN CHICKENS. MRS. G. L. MATHEWS, Kins-ley, Kans.

EGGS—From high-scoring Rose Combed White Leg-horns, \$1 per 15. Mrs. John Hill, Vinland, Kans.

EGGS FOR HATCHING—Strictly pure-bred varieties, \$1 per 15; S. C. and R. C. Brown Leghorns, S. Sp. Hamburgs, S. C. Black Minorcas, Barred Plymouth Rocks, Am. Dominques. A lso, Mammouth Bronze Turkeys, \$1.50 per 11. Satisfaction guaranteed. Vira Bailey, Kinsley, Kans., No. 315.

SINGLE COMB BLACK MINORCAS—High scoring, heavy laying, eggs \$2 per 15, \$5 per 45. J. M. Rebstock, Newton, Kans.

FARMS AND RANCHES.

FREE 200 printed farm and ranch descriptions in statistical book. Write G. Winders, Ottawa, Kans

FOR SALE—One of the finest stock farms in Geary County, contains 490 acres. For particulars, address G. A. Wingfield, Junction City, Kans.

FOR SALE—One of the best wheat and stock-ranches in Ford County, Kansas, at \$5 per acre; 1,800 acres fenced and cross-fenced, inexhaustible water supply, four miles from Dodge City, Kansas. For further particulars address J. H. Churchill, Dodge City, Kans.

FARMS FOR SALE—On reasonable price and terms. Address for particulars D. W. Jones, Iola, Allen Co., Kans.

120 ACRES—Improved, Osage County, \$1,500. Rents \$100. Buckeye Agency, Agricola, Kans.

FOR SALE—Alfalfa farm on the Arkansas Valley, running to the river, 2 miles west of Dodge City; a model dairy-farm containing 178 acres alfalfa and alfalfa-land, 500 acres pasture adjoining; good inprovements. For furthur particulars address J. H. Churchill, Dodge City, Kans.

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STRAWBERRY PLANTS
Best varieties, true to name. Also, raspberry, blackberry, dewberry, gooseberry, currant, rhubarb, peach,
pear, apple, plum, cherry and grape vines. J. C. Banta, Topeka, Kans.

SEED POTATOES Choice ones, true to name, raised by owner. J. P. Davenport, Mendota, Ill.

GREENHOUSE PLANTS tions, Coleus, Roses, Fuchias, Heliotropes, Geranium sorts. Samples by mail, 1 doz. 25c. Mrs. T. Montgomery, Larned, Kans.

BERRY PLANTS For Salé—40 varieties, for 1902 Catalogue. B. F. Smith, P. O. drawer C, Lawrence, Kans.

SEED CORN—Choice, large yellow 1900-grown, \$1.50 per bushel, sacks included. Mall orders promptly attended too. Stahl Bros., Sabetha, Kans.

FOR SALE—A limited supply of good, well-matured cane-seed, milo-maize, Kaffir-corn, and millet-seed. Place your order before it is too late. F. R. Mathews, Coolidge, Kans.

ENGLISH BLUE-GRASS SEED-\$2.00 per statutory bushel of 22 pounds. Bright, sound, crop 1901. Seamless American "A" sacks, I7c.; 3 bushel to sack. Write, Jno. S. Gilmore, Fredonia, Kans.

FOR SALE—100 bushels English blue-grass seed of my own raising, 10 cents per pound; sacks extra. W. T. Dickson, Carbondale, Osage county, Kans.

FOR SALE—2,000 bushels choice seed—1,500 bushels of cane-seed, \$2.75 per cwt.; 200 bushels yellow milo maize, \$2.50 per cwt.; 200 bushels black hulled White Kaffir, \$2.50 per cwt.; 100 bushels alfalfa-seed, \$5 per bushel. Sacks extra. L. P. Worden, Syracuse, Kans.

BROOMCORN WANTED - Good self-working broomcorn. Adelbert Roberts, Blaine, Kans.

FOR SALE—Kaffir-corn seed. Send for samples and prices. I. W. Glipin, Admire, Kans.

HOME-GROWN Nemaha County, Kansas, Seed corn, different varieties; sample and prices 10 cents It's guaranteed. Otis Warrenburg, Centralia, Kans.

SEED SWEET POTATOES FOR SALE—All leading kinds; also plants in their season. Enquire of N. H. Pixley, Wamego, Kans.

EARLY HARVEST BLACKBERRIES—Very pro-lific; fine root cuttings; sure to grow; \$2 per 1,000. Also Catalpa Speciosa seed in any quantity. O. A. Rhoads, Columbus, Kans.

ALFALFA SEED FOR SALE—\$4, \$4.50, and \$5 per bushal, sacked. Order by mail of J. C. Riggs (seed house), Florence, Kans.

SIBERIAN MILLET, the new forage millet, 100 lbs. sacked, \$2.50; seed-corn, several varieties, per bushel \$1.50; Bromus Inermis, per lb., 18 cents; per 100 lbs., \$16 Dwarf Essex rape, per lb., 8 cents; per 100 lbs., \$7 Write for catalogue. Trumbull & Co., Kansas City Miller & Co., Kansas City

BLACK HULL KAFFIR SEED of my own growing, recleaned and screened; a choice article; crop 1901. Send for samples and prices. Asher Adams, Osage City, Kans.

FOR PRICE LIST of Strawberry, Raspberry and Blackberry plants send to Wm. Brown & Sons, Law-rence, kans.

WANTED—If you wish to buy or sell corn, oats, hay, cane seed, Kaflir-corn, corn chop, or anything in the feed line, correspond with us. Western Grain & Storage Co., Wichita, Kans.

HIGHEST PRICE paid for cane seed, alfalfa, millet, Kaffir-corn and pop-corn. Please send samples. Kan-sas City Grain & Seed Co., Kansas City, Mo.

AGENTS.

WANTED—A good, active man with horse and wa-gon, to represent us in each county. Will bear in-vestigation. Imperial Stock Food Co., 902 Jackson St., Omaha, Neb.

WE PAY TWENTY DOLLARS A WEEK AND EXPENSES—To men with rigs to introduce our Poul-try Compound. Send stamp. Javelle Mfg. Co., Dept, 92, Parsons, Kans.

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J. A. Rosen, attorney and counselor in patent, trademark, and copyright causes. Patents procured and trademarks registered. Office, Rosen block, 418 Kansas Avenue, Topeka, Kans

MISCELLANEOUS.

FOR SALE—Farm and county rights of Singley's Boss pig-trough. Pigs can't get in it to waste feed easily made and cheap; can be put on old troughs. Send for circulars and prices. J. J. Singley, Meade Kans.

HAY FOR SALE—50 tons good prairie hay. James Stephenson, Clements, Kans.

POSITIVE CURE FOR RHEUMATISM—Send 10 cents in silver and stamped envelope for recipe for Positive Cure for Rheumatism. Ingredients powerful but inexpensive. Will last for months. A cure absolutely certain. Not taken into the stomach to destroy it. F. E. Hamel, Capital Ave. North, Lansing, Mich.

WHY WAIT until the middle of May to put your cat-tle on pasture, your alfalfa is usually large enough by April I. Bush's Gas Releasing Bits prevent Bloat. See add elsewhere in this paper.

WANTED—Married man to take charge of farm of 300 acres. Must be thoroughly competent and up-to-date. Address with references and details as to family and experience. A. Nelson, 423 Altman Building, Kansas City, Mo.

WANTED—130 horses and mules for pasture at \$5 per head. E. W. Thoes, Alma, Kans.

THE BEST CUP OF COFFEE and plenty of good things to eat. Farmers' trade a specialty. Come and get something good The Two Minute Restaurant, 532 Kansas Ave., Topeka, Kans,

FOR SALE—Page Woven Wire fencing. O. P., Up-degraff, Topeka, Kans.

VISITORS TO TOPEKA—Rooms for rent for translents, northwest corner 12th and Polk Streets, Topeka Kans. Meals served. Mrs. E. Porter.

WANTED—Guns; buy, trade on new ones. Remodel or repair any part of any gun made. Strictly high grade work. The largest line of modern guns in the State always on hand. Athletic sporting goods. Foot, and base ball supplies. Practical ideas developed, and patent models manufactured; any material, any model, H. B. Howard, 505 Kansas Avenue, Topeka, Kans.

WOOL WANTED—We have just completed our New Woolen Mill in North Topeka and want at once 200,000 pounds of wool for which we will pay the mark-et price. Write us if you have wool for sale. Western Woolen Mill Co., North Topeka, Kans.

BALMOLINE—Nature's Wonderful Healing Salve. Man or Beast. Druggists, 25 and 50 cents. Trial size 4 cents from B. H. DeHuy, Ph. D., Abilene, Kans.

FOR SALE—Feed mills and scales. We have 2 No.1 Blue Valley mills, one 600-pound platform scale, one family scale, and 15 Clover Leaf house scales, which we wish to close out cheap. Call on P. W. Griggs & Co., 208 West Sixth Street, Topeka, Kans.

STALLIONS FOR SALE Percheron, Belgian, Shire, coach and standard bred stallions for sale at prices you can afford to pay. H. C. Thompson, Peabody, Kans., on Santa Fe and Rock Island roads.

The Stray List.

Week Ending February 20.

Russell County-Ora S. Greeck, Clerk. Bull-Taken up by F. F. Benso, in Big Creek Tp. (P. O. Gorham), on January 8, 1902, one black bull about 18 months old.

Marion County, Ira S. Sterling, Clerk.
STEER—Taken up by J. A. Weiss, in
Lost Springs Tp. (P. O. Lost Springs), on
December 21, 1901, one black and white
yearling steer, mark on lower side of right
ear.

ear.

HEIFER—Taken up by Mrs. A. J. Fee, in Grant Tp., at the breaking up of the herd in the fall of 1901, one black heifer about 2 years old, S on right hip.

Johnson County—J. G. Rudy, Clerk.

HEIFER—Taken up by W. B. Kerner,
in Anbsy Tp., on November 18, 1901, one
heifer calf 1 year old, red with white spot
in forehead and some on belly; valued at
\$10. MULE—Taken up by Jacob A. Steven, in Shawnee Tp., on January 7, 1902, one small black mare mule; valued at \$25.

For Week Ending February 27. Greenwood County.

STEER—Taken up by Frank Dib Bachelor Tp., on February 15, 1902, red and white steer, short yearling. Rawlins County, A. V. Hill, Clerk.

CALF—Taken up by Paul Goetl, in Herndon Tp. (P. O. Herndon), on October 20, 1901. one black female calf; valued at \$8. Also taken up by same, one black male calf, white spots on head; valued at \$9. Pottawatomie County, A. P. Scritchfield,

STEER—Taken up by W. W. Philipps, in Green Tp. (P. O. Stockdale), on November 9, 1901, one red and white or roan steer, de-horned, 2 years old; valued at \$30.

Week Ending March 6.

Johnson County-J. G. Rudy, County Clerk, CALF—Taken up by M. S. Glynn, in Olathe tp., (P. O. Olathe), February 8, 1902, one dark red heifer, has horns and appears to be of Western stock; valued at \$15.

\$1º PER ACRE, IRRIGATED LAND per month for our IBRIGATED fruit, farming, and stock land appeals to you. Address Orchard Land Co., Orchard, Idaho. Hotel rates \$1.25 per day.

TARK TREES SUCCEED WHERE
Largest Nursery. O'THERS FAIL.
Fruit Book Free. Result of 76 years' experience,
STARK BROB., Louisiana, Mo.; Dansville, N.Y.

EAST LYNN FARM HERD OF Large English Berkshires

For Sale—10 good, young sows bred to such boars as Premier 4th 5577, Rutger Judge 2d, and Commander Nora. In Berkshires I keep only the best. Imported Elma Lady 4th 44688, the highest priced Berkshire sow ever sold in Kan-sas City, is in our herd.

WILL H. RHODES, Tampa, Kans.

KNOLLWOOD FARM HERD

ROAD BACKED

Sows and glits bred to prize-winning boars for sale, also a few fancy young boars ready for service. E. W. MELVILLE, Eudora, Kans.

Charles E. Sutton,

Russell, Kansas

Aberdeen - Angus

Special offering of Sutton's Doddies, 20 bulls, 9 to 80 months old, and 10 heifers. Good ones at reasonable prices.



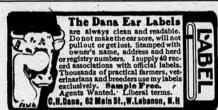
THE SMITH CREAM SEPARATOR.

The only separator on the market that does not MIX the milk and water, and sold under a positive guarantee. More Cream, Better Butter, Milkijfine, and no labor at all, Get a SMITH. Agents wanted. Mention Kansas Farmer.

Smith's Cream Separator Co., E 6th & Court Ave., DesMoines, Ia

LUMP JAW.

A positive and thorough cure easily accomplished. Latest scientific treatment, inexpensive and harmless, NO CURE, NO PAY. Our method fully explained on re-Chas. E. Bartlett, Columbus, Kans.



GALVANIZED WIRE-

oar loads of new galvanized wire, in short lengths.

Never was used. Comes from 6 to 10 gauge. Put up 100 lbs. to a coil and only one size wire to each bundle.

Frices range from \$1.40 to \$1.90 per 100 pounds. 100 pounds.
Our Free Catalogue No. 61 for the asking. We handle all kinds of supplies from Sheriff's and Receiver's Sale. Chicago House Wrecking Co.
West 85th and Iron 8ts., Chicago.





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In the Dairy.

Conducted by D. H. Otis, Professor of Dairy Husbandry, Kansas Experiment Station, Manhattan, Kans., to whom all correspondence with this department should be addressed.

What Shall We Do for Pasture?

Wheat and rye pasture, if available will serve an excellent purpose for a short time. Succotash, a mixture of any spring grains and winter rye, is highly recommended and is said to produce excellent pasture in a short time. Wheat, rye, oats, and in some localities barley may be used for this purpose. The ground should be well prepared, and the mixture sown in quantities equal to the usual sowing of any of the grains used. Stock may be turned on as soon as it is high enough

to graze.

Dwarf Essex rape has given excellent results at the Kansas Experiment Station as a hog-pasture. It has also been used to a limited extent as a pas-ture for cows. Neither hogs nor cattle seem to relish it at first, but after becoming accustomed to it eat it greedily, especially when it is not allowed to grow too rank. Rape may be sown any time from early spring to late summer and is good until frost. Five to six pounds per acre is sufficient. It can be sown to good advantage in the succo-tash mixture mentioned above at the rate of three to five pounds per acre. Rape and oats mixed will also make good pasture. Barn-yards that might otherwise grow up to weeds can be seeded to rape and will furnish impress quantities of hogosture. It is mense quantities of hog-pasture. It is sometimes seeded in the corn-field prior to the last working, and is used as pas-ture for stock after the corn is gath-ered, and it is said to greatly lessen the capage from impaction the damage from impaction.

During the summer of 1901 the Kansas Experiment Station secured excellent results in pasturing green sor-ghum. This feed was ready to use (when the other pastures were dry, and it yielded an immense amount of feed from a small area. The college dairy herd was pastured on green sorghum from July 1 to September 15 without a particle of injury of any kind. The herd became accustomed to the sor-ghum gradually and with full stomachs. Notwithstanding our success in pasturing green sorghum we are not ready to recommend it. Numerous cases are on record of deaths caused by "sorghum poisoning" and although we believe much of this trouble has been caused by the cattle going onto the sorghum with empty or partically empty stomachs, yet the man who pastures it must do so at his own risk.

pasture will doubtless be since pasture will doubtless be scarce this coming season many of our dairy-farmers will have to resort to soiling crops. For this purpose green alfalfa heads the list. During the summer of 1899 the Kansas Experiment Station soiled ten head of cows seventy four days from 2.97 acres of alfalfa. This was fed from May 10 to August 1 and could have been fed longer. While the college has used green alfalfa suc-cessfully as a soiling crop it has not made a success of pasturing it. During the month of August the ten cows were fed green corn from 1,22 acres; during September green sorghum and Kaffircorn from 1,39 acres. It would be well for each dairy farmer to provide plenty of soiling crops that he could use whenever his pastures become short and dry.

At the same time that we are secur-ing green feed for our stock, it will also be necessary to renovate our old pasture. For this purpose a disk is an in-dispensable implement. Grass needs cultivating the same as corn, and as the disk cuts through the sod, it aerates the soil, cuts the roots of the grass, and causes them to sprout with renewed

ior this gency, it would be well also to look ahead for next year, and try to secure permanent pastures. Where the prairie grasses are well established we had better let them remain. Where the soil is already broken, the best tame-grass mixture in the vicinity of Riley County is orchard-grass twenty pounds, English blue-grass fifteen pounds, and red clover five pounds per acre sown broadcast or drilled both ways of the field. D. H. O.

Apprentice Course at the Dairy School of the Kansas State Agricultural College.

ED. H. WEBSTER.

The first day of November, 1901, marked a new epoch in the progress of dairy education in Kansas. The regents of the Agricultural College authorised

the continuous running of the college creamery, and provided that instruction in practical work be given the year around. This course of instruction was to be of the nature of apprentice work, no class-room work being given in con-nection with it. A number of applica-tions were at once registered, but only seven were admitted for the two months then remaining between No-vember 1 and the opening of the winter term dairy school.

The two months were considered an experiment to prove the practicability of such a course. The experience of this time fully justifies us in offering to the young men of Kansas who wish to take advantage of the opportunities offered in the creameries and skim-ming-stations of our State a course of practical management of station and factory, such as will enable them to take charge of a station or go into a factory and do good work.

The course embraces all the practical work of the factory and station, given in such a way that the apprentice must learn the work independently and as though he were thrown on his own re-sources. It has been deemed advisable to admit but twenty such students at one time. As fast as these may finish their course and drop out, others may take their places, thus keeping a full number in the course all the time. Ap-prentices must be 18 years of age before they can be admitted.

The winter term of dairying closes March 28 and the school for apprentices will open on that date. Applications for enrollment should be made early. Should the number reach more than the limit, the first twenty sending in their applications will be enrolled, and the next in order as the names come will be taken to fill vacancies as they may occur.

To the young man wishing to become proficient in this line of work, this course offers an excellent opportunity.

Ensilage for the Kansas Farmer.

W. H. OLIN.

II.—BUILDING THE SILO.

Our last article told what ensilage is, and pointed out some of its good qualities for dairy cows and "feeders." et us now consider the construction of the silo. It has been proven that the most practical silo, as well as the most economical one, is the round or circular kind. In square silos there circular kind. In square silos there is a tendency to bulge outward, no matter how well they may be built. This permits air to come down the sides and spoil the silage. Nearly always it is found that several pounds of spoiled silage will be found either along the sides or in the corners. Professor Kiug in his excellent book, "Physics of Agriculture," shows that the pressure in the circular silo is sustained by the tensile strength of the materials in the walls, thus giving the greatest mechanical adthus giving the greatest mechanical advantage.

The depth of the silo is an important factor, since the amount of feed, the lateral pressure, and the relative loss at the surface, to a certain extent, depend upon it. The pressure of corn silage, at settling time shortly after cutting and filling, experiments show to be 100 pounds per square foot at a depth of ten feet, 220 pounds per square foot at a depth of twenty feet, 320 pounds per square foot at a depth of thirty feet, and that it increases at the rate of eleven pounds per square foot for every foot in depth.* This calls for strong silo walls; for, to be a good keeper, it must be air-tight, "first, last and all the time." The all-wood silo has been found a success by many farmers in Kansas, and Professor Cottrell of the farm department of our Agricultural College has found it always reliable.

First, mark out on the ground the circle that has the diameter that you desire for the inside of your silo; then dig the trench for the masonry foundation of sufficient depth below the surface to overcome the action of frost, say two or three feet. Care should be taken to make the wall of masonry at least two feet thick. Remove the dirt within, and make the floor of pounded clay. By bolting and plastering the sills into the foundation walls, the wood-work is effectually sealed to it.

Make the silo thirty feet high, using for the upright pieces two-by-fours fourteen and sixteen feet long, morticed at the ends and firmly held together by a bolted iron band. Place the flat side of the uprights outward, sixteen inches apart from middle to middle.

When fastening to the sill-plate mismatch the uprights, placing first a sixteen. and a fourteen-foot length, next

*Kings "Agricultural Physics."

DE LAVAL CREAM SEPARATORS ARE SO MUCH BETTER THAN

BECAUSE.—They are constructed after the "Alpha" Disc and "Split Wing" patents, which cannot be used by any other manufacturer and which enable De Laval machines to skim cleaner and produce a more even and more thoroughly churnable cream than is otherwise possible, at much less speed and wear, and much greater ease of operation.

OTHER CREAM SEPARATORS

BECAUSE.—The De Laval makers have ever been first and foremost in the manufacture of Cream Separators through out the world-have ever led where others follow-their factories being among the finest machine shops in the world and their knowledge of Cream Separators far greater and more thorough than that of any comparatively inexperienced wouldbe competitor.

BECAUSE.—The one purpose of the De Laval makers has ever been the production of the best Cream Separator possible regardless of cost, instead of that mistaken "cheapness" which is the only basis upon which any would-be competitor can even make pretence of seeking a market.

BECAUSE.—The vastly greater sale of De Laval machines -ten times all others combined — enables the De Laval makers to do these things and much more in the production of the perfect Cream Separator that no one else could attempt.

A De Laval catalogue explaining in detail the facts here set forth may be had for the asking.

The De Laval Separator Co.

RANDOLPH & CANAL STS.,

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74 Cortlandt Street,

NEW YORK

75 & 77 YORK STREET. TORONTO. 248 MODERMOTT AVENUE.

WINNIPEG.

a fourteen- and a sixteen-foot length, this one, will hold three and a half tons and so on all around.

Now use common fencing, ripped into half-inch boards, and line the inside, running around from bottom to top, breaking joints as in ceiling. Inside of this, place tarred paper and then put on the other part of the fencing boards -one-half inch thick-taking care to break joints with the first course.

It is best to place the tarred r

and the last course of boards as nearly simultaneously as possible, so one can watch the matching of the first halfinch course and more surely mismatch with the second course. No hoops or rods need be placed outside. The lining or covering of the outside of the silo does not add to its efficiency, and is therefore simply a matter of taste.

The "water-tank" silo can be pro-

cured already made to set up. Ob-jections to this silo are that it has to be watched in a dry time to keep the hoops tight, or it will fall down; and before using, it must each year be "swelled." It is much cheaper than the one just described, but it is not as satisfactory nor as durable.

The first-described silo is the one Professor Cottrell recommends, and he be-lieves that it will pay in Kansas. A silo fifteen feet in diameter built like

to a foot in height. Hence a silo thirty feet high will hold one hundred and five tons of silage. The roof of the silo need not be air-tight; it should be a good serviceable shingle-roof, with a door large enough to admit the silage-

Next week we will describe the filling and sealing of the silo.

Owing to the shortage of the corn crop in Kansas, many farmers and feeders have been sadly pressed for a knowledge of a right thing to do in feeding and preparing their stock for market. Plenty of roughness was on hand in all parts of the State, but this alone would not answer. The Glucose Sugar Refining Company, The Rookery, Chicago, steps in to solve this question by offering gluten feed and germoil-meal, which they manufacture, and which have become so very popular among feeders of experience, who have used them. They are highly nutritians, easily digestible and capable of being feadily assimilated, as well as relished by cattle, hogs, calves, and horses. Their catalogues, which may be obtained by addressing department K. F., The Glucose Sugar Refining Company, The Rookery, Chicago, gives full information, and these people will also send you samples if you so desire. Perhaps nothing has been discovered which so nearly solves the feeding problem, under our present conditions, as do these products manufactured by this company. Mention the Kansas Farmer Company, and write them at ones.

The Veterinarian.

ecordially invite our readers to consult us whenthey desire any information in regard to sick or
animals, and thus assist us in making this dement one of the interesting features of the Kansas
mer. Give age, color, and sex of animal, stating
gloms accurately, of how long standing, and what
ment, if any, has been resorted to. All replies
agh this column are free. In order to receive a
pt reply, all letters for this department should
the inquirer's postoffice, should be signed with
ull name, and should be addressed to the Vetery Department, Kansas Farmer, Topeka, Kans.

stula.—I have a mare about 9 years that has a lump of some kind grow on her shoulder. It seems hard, is about the size of a man's hand. has a good appetite, but is get-very poor. Can you tell me what the matter and what to do for her?
Hydro, Okla. W. F. KEIFEB.
Answer.—It would be best to have a Hydro, Okla. alified veterinarian operate on it if ssible, but if not, open up freely and ject peroxide of hydrogen, and when an grease it on the outside well, and ject the cavity full of tincture of dine; also soak absorbant cotton in same and pack full. Do this twice week for two weeks. Then use caric acid one part to thirty parts of ter after washing once a day to

Periodic Opthalma.—A short time I bought an 8-year-old black horse, actically blind in one eye and with other affected. I worked him one ek and thought he was getting better, to one morning I found that he had one stone-blind during the night; and to blind at first is white all over and atters a little. Can you throw any ght on the case, and can you throw ht back into the horse's eyes? Lawrence, Kans.

W. E. KOEHRING. Answer.—Bathe the eye with hot ater for half an hour, then take two ains of sulphate of atropine to oneof ounce of filtered rain-water. Mix and drop in ten drops twice a day with medical dropper, and cover the eye keep out the light.

Injured Back.—I have a pony that is been lame in the back for about to weeks. He eats all right and is in od condition. He drags his hind feet the be became lame. Is there a cure?

Alida, Kans.

Answer.—Take two and one-half nces of oil of turpentine, two ounces aqua ammonia, and seven ounces of eet-oil. Mix and apply once a day er small of the pack.

aminitis.—I have a horse that lks as though it was sore-footed om the front hoofs being too short, t he is worse when his hoofs have own out long. Some times he is rse than others. I have been letting run loose all winter without work-

Are you a Dairyman?

Third week in February

A statement every week. We buy from the Farmer direct.

Empty cans returned free.

Quoted every day.

Are you hunting the best market?

Have you been watching our price?

24 cents a pound for Butter Fat?

28 cents a pound for Butter Fat.

Watch the Elgin Butter Market.

Watch the New York Butter Market.

You always know what you are doing.

Thousands more will buy this year.

The second week in February we paid 26 cents a pound for Butter Fat.

We reached the climax when we paid the

Watch the St. Joseph Market for Butter Fat.

No waiting, no uncertainty, no disappointment.

Thousands of Dairymen have bought Farm Separators.

Low rate of transportation for 500 Miles.

Did you know we paid the first week in February

Do you sell milk?

ing him, and he seems to be a little better. Gro. Smith.

Overbrook, Kans. Answer.—Trim his hoofs down at the toes as short as they will stand and have him shod with bar shoes. Stand him in a tub of hot water three times

Wire Cut.—Some time ago I bought a 2-year-old colt that had cut its front foot in a wire gate. When I bought the colt the wound looked as though it was all healed up, but about every so often it will swell up, gather, and break J. F. GRAHAM.

Edmond, Kans. Answer.—Poultice the foot good with flaxseed-meal for two days. Then apply tincture of iodine with a brush every other day, and inject the same to the bottom of any openings.

Cough.—One of my best Jersey cows had a bad cough, but since her calf came she is all right. I have read of cows being troubled with tuberculosis, and wondered if she were affected with that. Is there any way to test her lungs or do you think there is any need of it?

A LADY SUBSCRIBER.

Answer.—It would be best to give her the tuberculin test, as it will in no way injure her.

Timothy as Pasture.

EDITOR KANSAS FARMER:—In advo-cating timothy as a pasture-grass, I know that I am antagonizing the teaching of all the authorities, as (so far as I know), all without exception have taught that it being a bulbous plant would not stand close cropping, particularly in dry seasons. After ten years of experience in pasturing timothy with quite large plots of blue-grass here and there through the field, in what is given in the crop reports, as the southwestern section of Nebraska, but which in reality is the south-central section—not far east of the one hundredth meridian-I can truly affirm that in a dry climate it has proven itself to be a superior pasture-grass when properly managed; and under the same conditions in every year has stood closer cropping and afforded more and better feed than the plots of blue-grass.

The only reason I can give for the re sults given above is that blue-grass being a surface-rooted plant, completely filling the surface-soil with its numerous fine roots, saps all the moisture from the surface, and when cropped close leaves the plant exposed to the intense heat; and thus the supply of moisture is lessened by capillary action, the soil being in that condition to permit the moisture rising from below to reach the surface and thus evaporate.

My treatment of the whole field was top-dressing with barn-manure, hauling it out whenever a load accumulated on the wagon or sled on which it was drawn. I thus had no unsightly or unwholesome compost heaps about the

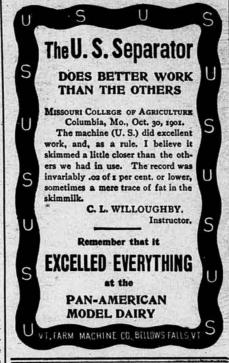
barn to breed insects. A neighbor said he had no place to put his manure after the ground was planted, and when told to put it on his pasture, said that it received all it needed from the drop-pings of the stock at pasture; but while my timothy grew better year by year, that not top-dressed throughout the country grew less and less productive, even when kept for meadow.

even when kept for meadow.

What to do with the manure and the best way to handle it to get the greatest benefit, might be summed up as follows: Use it for top-dressing grass-lands; then adopt a system of rotation that will bring your yearly acreage of corn on sod-land, and if possible that which has a goodly share of clover mixed with the grasses. Top-dressed meadows will produce twice the amount of hay that they would without the topof hay that they would without the top-dressing, and land with a turf that will produce from two to three tons of hay will produce a good crop of corn with-out further enriching.

F. C. JOHNSON. Independence, Mo.

To make cows pay, use Sharples Cream Separators. Book "Business Dairying" and Catalogue 257 free. West Chester, Pa.



D MOORE'S HOG REMEDY and cure Mange and Canker, kill Lice and Fever Germs, remove Worms and AND PREVENT OHOLERA, at a cost of Five Cents Per Hog Per Year. A postal gets particulars and book on "CARE OF HOGS." Address MOORE CHEMICAL CO.,

1303 Genesee Street, - - Kansas City, Me.

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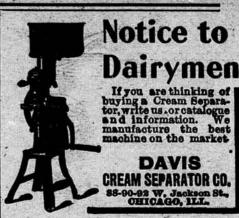
It pays to feed a variety of feeds. Make a grain ration of ground corn with

Gluten Feed Germ Oil Mea

These digestible feeds are nutritious, easily assimilated and cattle, hogs, calves, etc. eat them with a relish. Write for samples and letters of recommendation, addressing Department K F.

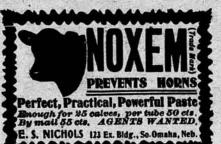
The Glucose Sugar Refining Co., The Rookery, Chicago.

When writing our advertisers please mention Kansas Farmer.









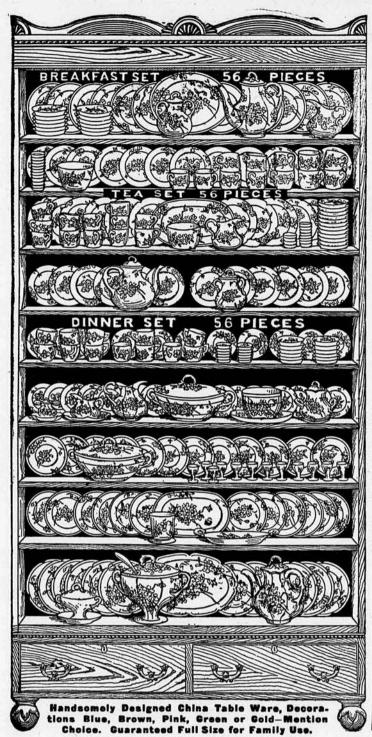
WORMS IN HOGS.

Swine plague, Hog Cholera, etc., yearly kill a great many hogs, but also many die each year simply from worms, and in nearly every instance the loss is laid to Cholera instead of the real cause. A hog will support a certain number of worms without apparent injury, but he will not make the same gain on the same amount of feed, for part of the feed goes to support them—and this year feed is too high to give to worms—but in a great many cases the worms get too numerous and they prey on the animal itself, then comes paralysis of hind quarters, coughing, loss of appetite and general decline in condition. The hog is losing instead of gaining flesh. Now we haven't any remedy for genuine hog cholera, but SECURITY WORM POWDER for hogs is the best remedy on earth for worms. It has surprised a great many feeders to find that worms, not cholera, was affecting their hogs-it may be the same with you. Don't take chances of loss, but when first symptoms appear, ask your dealer or write us for SECURITY WORM POWDER for Hogs, and if you are not satisfied with it, we will refund your money. SECURITY STOCK FOOD CO.,

Minneapolis, Minn.

Write to us for catalogue of the best Machine on the Market. "The EMPIRE" Send us a letter and we will send Tags and Seals. Commence shipping at once. Take advantage of the high market. Ask your bank to look us up, and see if We are responsible. Very respectfully, BLUE VALLEY CREAMERY CO., ST. JOSEPH, MO. ⁷&&**```&``````````````````**

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We give you a 56 PIECE BREAKFAST, DIMMER, or TEA-SET—full size for family—FREE OF COST. Here is your opportunity. Do not miss it. This means exactly what it it. There is no fraud or humbug in this announce, the tension of words or phrases intended to deceive or befuddle you. All is plain, open, above board, and understandable. We will do what we say and give what we agree. When we state wE GIVE A 56 PIECE SET, we do not mean that we will send an OFFER or proposition, a plan used by others so often to entrap and deceive, but wE GUARANTEE to forward the real genuine goods themselves. Choice given of a Breakfast, Dinner, or Tea Set—each set consisting of 56 Pieces, beautifully decorated and artistically designed. In addition to the 56 Piece Sets, every person gets an elegant Watch warranted for 20 years, or 12 Silver Plated Tea Spoons, 6 Table Knives, 6 Table Forks, 6 Table Spoons, a pair of ladies' or gents' Kid-Gloves, or a box of one dozen handsome Stockings. (Gloves and Stockings for ladies or gents—all sizes and colors.)

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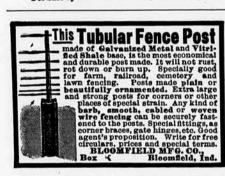
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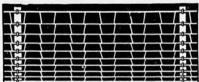


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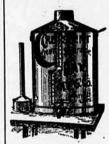
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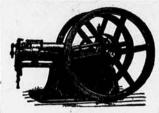
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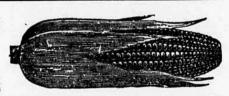
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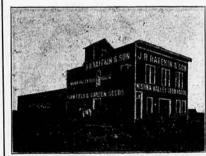
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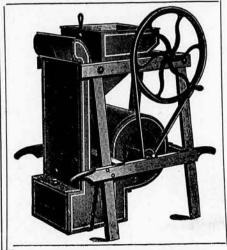
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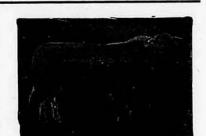
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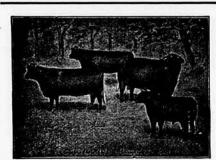
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Consisting of 40 good Cows 3 years old or over, 10 2-year-old Heifers bred, 50 yearling Heifers, and 100 Bulls from 8 months to 2 years old. I will make VERY Low Prices on any of the above cattle. Write me or come and see me before buying.

C. A. STANNARD, Emporia, Kans





LAMPLIGHTER SIREA.

Pearl Shorthorns.

YOUNG BULLS FOR SALE d by the Cruickshank bulls Golden Knight 108086, Lafitte 119915, and Baron Ury 2d 124970, ranging in age from 2 months to 2 years.

Inspection Invited

C. W. TAYLOR, Pearl, Dickinson Co., Kans.



Both Sexes, in Large or Small Lots, Always For Sale

HORSES AND MULES.

PERCHERON STALLIONS



FOR SALE. DIRECT 1839, by Bendago 11807, by Brilliant 1271, dam Fenelo 14118 by Fenelon 2652, by Brilliant 1271. Ben-dago's dam the famous prize-winner Julis 5976 by La Ferte 5144. Also 6 Young Stallions by Direct.

HANNA & CO., Howard, Kans.

HENRY AVERY & SON, BREEDERS OF

Pure Percherons.

The largest herd of Percheron horses in the west and the best bred herd in America. A choice collection of young stallions and mares always on hand. Prices con-sistant with quality. Address, or come and see at

Wakefield, Clay County, Kansas.

Prospect Farm.



H. W. McAFEE, Topeka, Kansas, Breeder of OLYDESDALE HORSES, AND SHORTHORN OATTLE.

For Sale—25 Clydesdales, including 3 registered stallions of serviceable age, and 13 mares.
Inspection and correspondence invited.

HORSES AND MULES.

THIRTY IMPORTED SHIRE, PERCHERON, AND CLYDE STALLIONS,
\$1,000; home-bred \$200 to \$800.
BILBO & WILSON, CRESTON, IOWA.

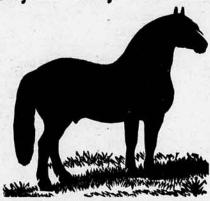
Pleasant Hill Jack Farm.

PHILIP WALKER, Breeder, MOLINE, ELKICO., IKANS

25 Mammeth, Warrier, and Spanish Jacks New For Sale.

Quality and Breeding Unexcelled. Inspection and Correspondence Invited

Cheyenne Valley Stock Farm.



F. H. Schrepel, Ellinwood, Kans., -Breeder of-

PERCHERON HORSES, AND POLAND-CHINA HOGS

For Sale—Twelve young stallions and a few mares Inspection and correspondence invited.

SNYDER BROS., Winfield, Kans.,

POLAND-CHINA SWINE, SHIRE and PERCHERON HORSES, and POLLED DURHAM CATTLE.

Stallions of both popular Draft breeds for sale; also two jacks.

Attention is called to the Public Sale of Poland-Chinas on March 21, 1902, at Winfield, Kans., by Snyder Bros. and H. E. Lunt.



When We Talk We Tell the Truth

and no one dare DISPUTE it.

We import nothing but HIGH-CLASS Stallions; no cheap or old stuff, no job lots or so-called bargains. We bring our stallions to this country early in the sea 1 giving ample time to acclimate them. No concern in the United States has 1 etter facilities in the way of barns, stalls, hallways, etc., to reinstate their na 1 all condition. We have a large number of coal black Percherons, 2-, 3-, and 4-, ear-olds; also a number of the best Shire stallions in America, which we are offering at very close prices. Come and see us or write us at once.

Long Distance THE LINCOLN IMPORTING HORSE CO., 33 & Holdrege, Lincoln, Neb

THE BURGESS & GRAY IMPORTING CO.

M. C. GRAY, Beatrice, Neb. ROBERT BURGESS & SON, Wenona, III.

Are age in prepared to save you from \$250 to \$500 on each horse you buy. We saved our Western customers over \$10,000 last winter, and from these same customers not a stallion has been returned and but one letter of complaint. We are not in the "clown" or "mascot" business, nor are we able to prevaricate in many languages; but we do keep some GOOD stallions, whose merits speak loudly for themselves, and THE BUYER TO LA THE JUDGE. See our American-bred and prize-winning Percherons and Shires before purchasing elsewhere; they are the best and most satisfactory at any price! But how does \$800 for a 3-year-old, that will mature at 2,000 pounds, strike you? You can get it at Beatrice. Don't throw your money into the sewer, but come where you can get a GOOD horse and a SQUARE DEAL at a MODERATE price! Call on, or address,

M. C. GRAY, Beatrice, Neb.

DRAFT STALLIU



Percherons, Shires, and Clydes.

We have a selection that are sure to suit you. As grand a lot of young stallions, of serviceable age as can be found in the country. We do not claim to have every color or kind of a stallion, you or anybody may want, but what we claim you will find true if you pay us a visit. All of our selections are made by a member of our firm, who has been at this line of work the past decade and has absolutely a first choice from the leading breeders of Furope. Our last importation, consisting of the three great breeds, and 62 head in numbers were selected in the early part of February, before any of the shows and to-day are ready for sale. Write us, or come and see us, if you or your community are in need of the best to be found.

KEISER BROS., Keota, Keokuk County, Iowa.

PERCHERONS

J. W. & J. C. ROBISON, Importers and Breeders,

TOWANDA, BUTLER COUNTY, KANSAS.

Largest herd in the State. Imported, and American bred stallions and mate sale at all times. Prices reasonable. Inspection invited. Seventeen young ions for sale.



RIVERSIDE STOCK FARM.

O. L. THISLER, Chapman, Dickinson Co., Kans.,

Percheron Horses and Shorthorn Cattle. FOR SALE—Percheron Stallions and a few Mares, about 20 head of Shorthorn Females, and a few fine, young Bulls. Also several fine, large Jacks. Pedigrees and breeding of all stock guaranteed.



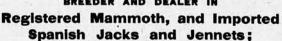
WE ARE NOT THE LARGEST IMPORTERS

In the United States, neither have we all ton horses. But we do make five importations each year. Our stables at Lincoln, Neb., and at South Omaha Union Stock Yards are full of first-class Percheron and Shire stallions. If you want a good one for what he is worth, it will pay you to see us. Our horses won sweepstakes in all draft and hackney classes at Nebraska State Fair. Address all correspondence to

WATSON, WOODS BROS. & CO., Lincoln, Neb. SPECIAL NOTICE: Woods Bros., of Lincoln, Neb., have two cars of Short-horn and Hereford bulls and cows at a bargain.



S. A. SPRIGGS, Westphalia, Kansas



Also Registered Stallions. All stock guaranteed just as represented. Correspondence solicited.



Percheron Stallions

70 First Class Young Percheron Stallions

Now in our Shenandoah stables. Our last importation arrived Osto ber 1, 1901—mostly black, 3-year-olds, 30 imported stallions. An ele gant string of 25 big two's and three's of my own breeding. Thirtyears in the business. Come and see the horses. M. L. AYRES, Shenandoah, Iowa

Coach, Percheron, and Belgium Horse German

OLTMANNS BROS., Importers and Breeders, WATSEKA, ILLINOIS. Three importations in 1901. 100 Stallions For Sale.

No other firm enjoys such buying facilities; the senior member being a resident of Germany is persally acquainted with the best breeders in France, Germany, and Belgium. We can save you mon Come and see us. We shall exhibit at the International Live Stock Exposition, Chicago, Dec. 1-7, 1



ROYAL BELGIANS, PERCHERON

Our importation of July 10 are in good condition breeding. We don,t stuff or pamper our horses to deed buyers; a pampered horse don't get coits until reduction flesh. These horses are all large size and the bequality of breeding. Their ages run from 2 to 5 years and their weight in driving flesh from 1,800 to 2,900 Colors are blue and strawberry roans, blacks, bays, adapple greys. For quality and bone they cannot beducated in Illinois or lowa. They measure now in solid be from 13 to 14 inches. I sell horses on the smallest proyand the best guarantee, and give best bargains and term sell on time on good paper. It will pay parties in need a breeding stallion to come to Pontiac and see this fol horses. Pontiac is on the C. & A., Ill. Cent., and Wash Railroads, 92 miles south of Chicago; 65 miles east Peorla, and 65 miles west of Kankakee.

NICKOLAS MASSION, IMPORTER, PONTIAC, ILLIN

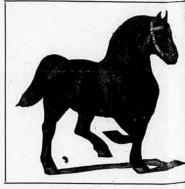
The UNITED STATES CUSTOM HOUSE records w, that we imported from France in 1901, 60 per cent more show, that we imported from France in 1901 stallions than our next largest competitor.

The number of Percherons alone imported by us was 10 per cent greater shan the number of all breeds combined, imported by our next largest competitor.

The leading prize-winning stallions, now left in France to make the season of 1902 there, have already been purchased by us for delivery next July.

More good HORSES and more Prize-winners were imported by us from France during the past 12 months than by all others combined.

McLAUGHLIN BROS., COLUMBUS, OHIO. BRANCHES: EMMETSBURG, IOWA: LAWRENCE, KANSAS.



The Greatest Importing and Breeding Establishment in the World.

Percherons and French Coachers 500 Head on Hand.

Nearly 300 stallions purchased in France during the last twelve months, being more than double the number of Percherons bough by any other firm, and more high-class animals than by all other

AT THE RECENT INTERNATIONAL LIVE STOCK EXPOSITION AT CHICAGO

the Oaklawn Percherons won every championship, first prize and gold medi award and every second prize in classes.

Notwithstanding the superior quality of our horses, it is a fact that ou prices are lower than can be obtained elsewhere in America. Catalogue sel on application.

DUNHAM, FLETCHER & COLEMAN Wayne, Du Page County, Illinois,

T OUR

PAOLA, KANSAS, MARCH 15, 1902.

C. P. SHELTON, Paola Kans. My herd is stronger in Welch's Black U. S. than any other west of Ohio.

DIETRICH & SPAULDING, Richmond, Kans. Breeders in 15 States and Territories and in Europe are using the blood we consign to this sale.

45 Uilts, Young Sows Heavy in Pig, and 5 Toppy Young Boars.

With a Few Exceptions This Is a Consignment of Strictly Crack Stuff. We heartily Invite Our Neighbors and Fellow Breeders to Come and See if We Have Not All That We Claim. Free Entertainment at the La Clede for Customers from a distance.

Ool. James W. Sparks, Auctioneer.

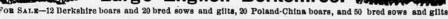
Apply for Catalogues to C. P. SHELTON, Manager, PACLA, KANSAS.

ROME PARK STOCK FARM.



T. A. HUBBARD, Rome, Kans., ... BREEDER OF ... Poland-Chinas and

Large English Berkshires.



SEVEN HEAD OF REGISTERED HEREFORD BULLS

BARNES & BIRCHER, Pratt, Kansas.



STEELE BROS., Belvoir, Douglas Co., Kans.,

HEREFORD CATTLE

YOUNG STOCK FOR SALE. INSPECTION OR CORRESPONDENCE INVITED.

H. O. TUDOR, HOLTON, KAS. THE ANNUAL OFFERING FROM THE

BILL BROOK BREEDING FARM, (REGISTERED SHORTHORNS)

TO BE SOLD APRIL 25 AND 26, 1902, AT HOLTON, KANSAS, 90 COWS AND HEIFERS, AND 20 BULLS,

Comprising cattle from the following well-known families, (topped with the best Scotch and Bates blood): Rose of Sharon, Zelia, Belina, Ruby. This is a select draft from my herd and will constitute one of the best offerings of the year 1902.

MY & MAI

BELTON, CASS COUNTY, MO.

BULLS in service, HESIOD 29th 66304, Imp. RODERICK 80185, MONITOR 58275, EXPANSION 9.662, FRISCOE 93674, FULTON ALAMO 11th 83731.

128 25 miles south of Kansas City on Frisco; Ft. Scott & Memphis; and K. C., P. & G. Railroads

Valley Grove Short

THE SCOTCH BRED BULLS

LORD MAYOR 112727, and LAIRD OF LINWOOD 127149 HEAD OF THE HERD.

CRD MAYOR was by the Baron Victor bull, Baron Lavender 2d, out of Imp. Lady of the Meadow, and is one of the greatest breeding bulls of the age. Laird of Linwood was by Gallahahad out of 11th Linwood Golden Drop, Lord Mayor heifers bred to Laird of Linwood for sale. Also breed Shetland ponies. Inspection invited. Correspondence solicited. A few young bulls sired

Address T. P. BABST, Prop., Dover, Shawnee Co., Kans

...IDLEWILD HERD...

SHORTHORN

BY.... W. P. HARNED, VERMONT, COOPER CO., MO.

THE strongest Cruick-shank blood is obtained through Godoy. I Ask Special Attention to the Great Coats of Hair on Godoy Calves. They have scale and substance. Calves. T substance.

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EIGHT YOUNG CRUICK-SHANK BULLS BY GODOY FOR SALE. Send for bull catalogue. Also have herd catalogue.



Vermont is railroad station on farm. Tipton is on main line Mo. Pac. R. R. seven miles from farm. Telephone to farm.

CAR-LOAD BIG RANGE BULLS. BULLS.
ONE OF THE CRACKS OF THE DAY IN A VICTORIA BULL BY GODOY, 13 MONTHS OLD, ROAN, WILL SELL.

Combination Sale

FAIR GROUNDS, WINFIELD, KANS., ■MARCH 21, 1902=

Fifty choicely bred Poland-China hogs, 12 choicely bred and tried brood sows, 4 prize-winning gilts-grandaughters of the great Chief I Know. One gilt and 1 choice boar, by Young Chief Perfection 46433, O. -a brother of Chief Perfection 2d-out of Oriental Princess, litter sister of sweepstakes sow at Kentucky State Fair, 1900. Two gilts and 1 boar by Broadguage Chief, out of Artesian Beauty, also sister to Kentucky sweepstake sow of 1900. First prize boar at Kay County Fair in class over 6 and under 12 months, and other good things. Also 25 Shorthorns and Polled Durham bulls, registered, nonregistered, pure-bred, and highgrade. Apply to SNYDER BROS., for Catalogue.

SNYDER BROS., Winfield, Kans. HARRY E. LUNT, Burden, Kans.

Auctioneers: Cols. J. W. Sparks, Marshall, Mo., J. N. Harshberger, Lawrence, Kans., Lafe Burger, Wellington, Kans.

OF PURE-BRED Poland-Chinas OLATHE, KANSAS, MARCH 10, 1902. The blood of Chief Tecumseh 2d, Missourl's Black Chief, Chief 1 Know, Chief Eclipsed, and other famous sires. A splendid offering of brood sows and glits bred to such grand boars as Goode's Ideal Sunshine, Black Queen's Chief, Write for Catalogue at once and mention the Kansas Farmer. Write for Catalogue at once and mention the Kansas Farmer. Address. W. P. GOODE, Lenexa, Kansas. RURAL ROUTE AD

The blood of Chief Tecumseh 2d, Missouri's Black Chief, Chief I Know, Chief Eclipsed, and other famous sires.

A splendid offering of brood sows and gilts bred to such grand boars as Goode's Perfection 2d, Goode's Ideal Sunshine, Black Queen's Chief, and the best son of Hadley Jr. 13314.

Write for Catalogue at once and mention the Kansas Farmer.

Address.. W. P. GOODE, Lenexa, Kansas. RURAL ROUTE

MADDIA MADIA MADDIA MADIA MADIA MADIA MADDIA MADDIA MAD

RED POLLED CATTLE SALE AT OMAHA.

A DISPERSION SALE Cedar Farm Herd RED POLLED CATTLE, SATURDAY, MARCH 15, 1902, at Sale Pavilion, SOUTH OMAHA, NEB.

C. H. NIGH, MEAD, NEB.

Sells His Entire Herd of Red Polled Cattle at Auction

On above date and place. The Cedar Farm Herd consists of 42 head of Registered Cattle, not counting the calves to be sold at foot of dam. The fine breeding bull LFLAND 2330 by the great sire WINDSOR 459, goes in this sale along with 8 younger bulls, all but one of these being of his get. Of the 33 females catalogued for this dispersion sale all of sufficient age are bred to Leland or have his calves at foot. A considerable sprinkling of the same blood as that of the WORLD'S FAIR CHAMPION, IOWA DAVISON 10TH, is to be found in this good herd. Everything is catalogued and goes to the highest bidder. If buyers want both beef and milk; if they want cattle that are hornless evenly red in color, and all reverses want cattle that are hornless, evenly red in color, and all-reu, and that have remarkable smoothnes of form, and that can be bought worth the money, let them come to this dispersion sale of Cedar Farm's Red Polls. The catalogue gives full line of pedigrees and all needed information.

COL. F. M. WOCDS, Auctioneer.

C. H. NIGH, Mead, Nebraska.

.PUBLIC SALE

...BATES-BRED...

SHORTH

From the STAKED PLAINS HERD OF B. B. & H. T. GROOM, MANAGERS, PANHANDLE, TEXAS

ON MARCH 20, 1902,

Fine Stock Sale Pavilion, in Kansas City,

We will sell 45 Head of HIGHLY BRED Bates SHORTHORN CATTLE from our Staked Plains Herd. Catalogues at Sale.

B. B. & H. T. GROOM, MANAGERS.

SPECIAL ATTENTION.—Colonel Nelson will sell on March 19th at same place his entire herd, consisting of cattle of unexcelled blood lines and individual merit.

DISPERSION SALE OF A GRAND

SHORTHORNS

The Property of Col. W. R. Nelson, at Kansas City Sale Pavilion, WEDNESDAY, MARCH 19, 1902.

The herd consists of the best Scotch families selected and imported personally by Mr. Nelson from the best herds of Great Britain, to which have been added some plums of other recent importations and the choicest lot of Bates-bred cattle which money could buy. Among the imported Scotch cattle art two half-sisters to the great show cow Cicely, one of the most valuable Lavenders ever brought to America, and the stock bull Bapton Arrow, selected for use in the herd, bred by that great breeder of stock bulls, Mr. J. Deane Willis. Also the celebrated Bates herd bull 53d Duke of Airdrie, whose reputation as a sire is one of which his owner is justly proud. These and many others of similar character make one of the greatest offerings of choice Shorthorns of recent years.

EDMONSON, JUDY, JONES, AND SPARKS. * FOR INFORMATION, CATA- F. H. GLICK, Manager, STAR BUILDING, KANSAS CITY, MISSOURI.

Combination Shorthorn Sale

Friday, March 14, 1902, at South Omaha, Nebraska

Grand Array of

Breeding Cattle

55 Registered Shorthon the Kind We Like.

Saunders, Ward, Riley Bros., Edwards, Helmick.

FIRST CLASS CONSIGNMENTS for this great day's sale at South Omaha, Neb., come from the above-named herds about as folfrom C. A. Saunders' Greeley Stock Farm, Manilla, Iowa; 15 from Geo. E. Ward's fine herd at Hawarden, Iowa; while the balance of the consignments are divided pretty evenly between the well known herds of good Shorthorns owned by Riley Bros., of Nebraska, and Edwards & Helmick, of Iowa. There are fine strings of richly bred and good young serviceable bulls to go forward in these offerings, as well as numerous fine cows, bred or with calf at foot. It will be a great day for everybody—an opportunity to buy Shorthorns that are useful, clean, well-bred, and that are beef makers to the very marrow in their bones. A hearty invitation is extended all good cattlemen to attend. Write for a catalogue of all offerings to-day to

C. A. SAUNDERS, Manilla, Iowa, or G. E. WARD, Morningside, Sioux City, Ia.

COLS. WOODS, JONES, SPARKS AND BARCLAY, Auctioneers.

RYANS' SHORTHORNS

OMAHA!

Thursday, March 13, 1902, at South Omaha, Neb.

52 Registered Shorthorns, Pure Scotch--Straight Bates

THE CREAM OF THE BREED.

MESSRS. T. J. RYAN & SONS, Irwin, Iowa, announce that they will sell to the highest bidder 52 capital breeding cattle from their well known Pleasant View Herd of Shorthorns, sale to take place in the new sale pavilion, South Omaha, on Thursday, March 13, 1902. This big draft offering of select Shorthorns is made up about as follows: Ten straight Scotch cows-some of them pure Cruickshanks, and several Imported; balance Scotch and Bates-topped; sold at foot of dam; 8 good young bulls in sale. We are letting go a number of richly bred Duchess cows, and good ones; others of Clipper, Crocus, Marsh Violet, Alexandrina, Duchess of Gloster, and Victoria families. The Pleasant View sale catalogue is a veritable galaxy of good things. Send for it at once. If you want good cattle-well-bred cattle-breeding cattle-show cattle-cattle that are cattle from the ground up, come to Omaha, March 13.

Auctioneers:

Cols. Woods, Jones, Sparks and Barclay.

T. J. RYAN & SONS,

Irwin, Iowa.