

KANSAS FARMER

VOL. XXXX
NO. 10

TOPEKA, KANSAS, THURSDAY, MARCH 6, 1902.

ESTABLISHED IN 1868
\$1.00 A YEAR

KANSAS FARMER.

Established in 1868.

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

E. B. COWGILL.....President
J. B. McAFEE.....Vice President
D. C. NELLIS.....Secretary and Treasurer

SUBSCRIPTION PRICE: \$1.00 A YEAR

E. B. COWGILL.....Editor
I. D. GRAHAM.....Associate Editor
H. A. HEATH.....Advertising Manager



ADVERTISING RATES.

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 \$16.00 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 references 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 the 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 service.

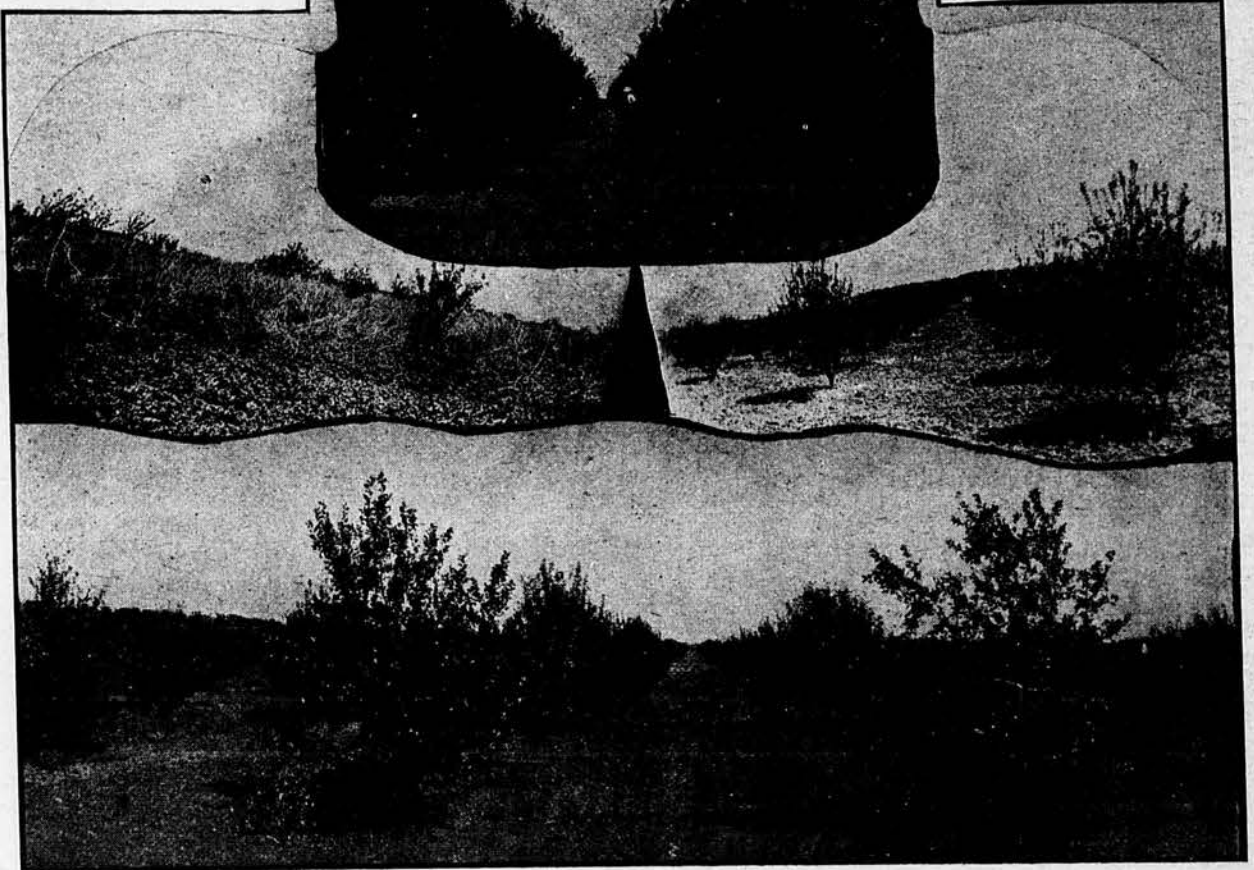
The season of political conventions opened early this year. Are farmers leaving the political work all to those who make politics their trade? It should be remembered that a candi-

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 behalf. One of the queries sometimes heard is as to whether the



expected that a new era in the development of a great and fertile region will be inaugurated.

Only one plant of this kind has ever been installed. This is in southern California. In clear weather it develops eleven horsepower. It has been at work for over a year.



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 year." 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 be 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 policies.

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 subscribers will be entered, both for one year, for one dollar. Address, Kansas Farmer Company, Topeka, Kans.

THE SOLAR MOTOR.

Since the announcement in the KANSAS 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 the neighboring republic.

The editor is able to say that late advices from the Solar-motor Company 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.

With characteristic public spirit the general passenger agent of the Santa Fe will propose to the other railroads to make excursion rates from Kansas points to Great Bend at the opening. 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 Solar-Motor Company, Boston, Mass.

WHAT OF THE WHEAT?

Reports as to the condition of wheat are much varied. From all those portions 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., accompanied 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 Sumner County line. Mr. Compton states that they have not had snow.

The recuperative power of wheat is very great when conditions become favorable, but we judge from the samples received that at best a very scattering stand can be expected. These samples do not contain Hessian fly. If the stand shall prove good enough

to make a half or even a quarter crop, the opportunity to sow alfalfa among the 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 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 old-timers, 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 snow.

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 getting 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 as Kafir-corn and alfalfa. If every Kansas farmer who grows corn had planted one-half of his corn-field to Kafir-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 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 thousands 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 myself.

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.

One time 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 Dr. Shoop, Box 529, Racine, Wisconsin.

Book No. 1 on Dyspepsia
 Book No. 2 on the Heart
 Book No. 3 on the Kidneys
 Book No. 4 for Women
 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

hundred million bushels of feed instead of forty million as was the case. In one southwestern county, I am personally acquainted with a ranchman who raised enough Kafir-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 Kafir-corn grown by our ranchman yielded him twenty-five bushels per acre. After all that has been written about Kafir-corn, it seems that the majority of Kansas farmers are still ignorant of its merits.

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 this 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 corn—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 Kansas 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. One-tenth 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 5,206,000 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 calculations. 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 have been reading Brother Norton's letters for a long time, and take quite an interest 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 Kansas wheat-growers are going to learn more about holding wheat in the next ninety days 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 feed we have. If Brother Norton will take eight quarts of shorts instead of that sixteen he speaks of, and add four quarts of oil-meal he will have a much more valuable feed, at least cost. I have used it since last August, but I have used ground wheat instead of

shorts, and it is the best and cheapest mixture I can find. Sometimes when I run out of ground wheat, I feed the oil-meal 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 is 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 Kafir-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.

Buxton, Kans. CHAS. MITCHELL.

Bermuda-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 territory have tried 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, Bermuda-grass is green and growing from spring until heavy frosts come.

To start Bermuda-grass on a worn-out pasture, disk the sod in late April or May, then scatter short pieces of the roots of Bermuda-grass over the surface 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.

To start Bermuda-grass on land that has been in cultivation, disk or harrow in April or May, run furrows two to 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 get ahead of Bermuda-grass, cultivate

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 pastures.

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, 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 BULLETIN OKLAHOMA EXPERIMENT STATION.

Each season's results at the Oklahoma 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 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 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 it 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 pencillaria? It is advertised simply as "the wonderful new fodder-plant," mentioning the height it will grow if cultivated. 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 four 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 patches each about six by twelve feet

TO CURE A COLD IN ONE DAY
 Take Laxative Bromo-Quinine Tablets. All druggists refund the money if it fails to cure. E. W. Grove's signature is on each box. 2c.

Going for the Doctor

through the storm and darkness while the suffering one at home is in danger, perhaps of death, is a terrible trip. Why not have a good, sure family remedy in the house? One that has proven a life saver in thousands of cases during the last forty years.

Watkins' Vegetable Anodyne Liniment.

Think what a world of terror and anxiety was saved this man.

DISPENSES WITH DOCTORS.

Middle Grove, Illinois, June 4, 1901.


We have used Watkins' Vegetable Anodyne Liniment in several cases of flatulent colic: have employed veterinary surgeons before, but rely entirely on Watkins' Liniment now, for family use as well as for stock. WALTER DIKEMAN.

Watkins' Liniment is not only a great thing in cases of serious injury through accident, but is always helpful in cases of Colds, Colic, Diarrhoea, Dysentery, Indigestion, Cuts, Burns, etc. It is equally good for man or beast. If by any chance we have no agent in your vicinity, write to us, and we will see that you are supplied.

A TREAT FOR ALL.

Our new Cook Book and Home Doctor, containing a hundred pages of valuable information in cooking, gardening, etc. is out for '02. We mail it free to anyone sending his name and address on a postal card. Write at once and address

THE J. R. WATKINS MEDICAL CO.,
 28 Liberty St. Winona, Minn., U.S.A.



The Stock Interest.

THOROUGHbred STOCK SALES.

Dates claimed only for sales which are advertised or are to be advertised in this paper.

- March 15, 1902—C. P. Nigh, South Omaha, Red Polled cattle.
- March 19, 1902—Dispersion Shorthorn sale. 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. Scooter, Lockwood, Mo., Shorthorns.
- April 15, 1902—Geo. H. Augustus, Kansas City, Mo., Shorthorns.
- April 16, 1902—Geo. Bothwell, Nettleton, Mo., Shorthorns.
- April 16, 1902—W. O. Park, Atchison, Kans., Aberdeen-Angus.
- April 22-24, 1902—National Hereford Exchange, Kansas City, Mo. (Sotham management.)
- April 25 and 28, 1902—H. O. Tudor, Holton, Kans., Shorthorns.
- May 7 and 8, 1902—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, Ill. (Sotham management.)

Baby Beef.

PROF. H. M. COTTRELL, IN THE INDUSTRIALIST.

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, Kaffir-corn, 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 Short-horns, Hereford, and Angus. Fifty head 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 purchased 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:

Alfalfa hay and corn.....	407	470	544
Alfalfa hay and Kaffir-corn.....	379	524	626
Prairie hay, corn two-thirds, and soy-beans one-third.....	378	520	486
Prairie hay, Kaffir-corn two-thirds, and soy-beans one-third.....	342	594	539
Skim-milk calves, alfalfa hay, and corn.....	440	439	436
Whole-milk calves, alfalfa hay and corn.....	404	470	420

At the close of the experiment, May 27, the entire lot averaged 800 pounds 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 per 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 me puts his name on lamp chimneys — there's mighty good reason for that. MACBETH.

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.

\$400 FOR THE LARGEST SHEEP IN THE WORLD

We hereby offer \$400.00 cash for the largest Ram of any breed or cross. Ram to be weighed November 20, 1902, and sworn statement of owner and weigher and three witnesses to be forwarded to the **AMERICAN SHEEP BREEDER**, 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.



A \$3000.00 STOCK BOOK FREE
MAILED TO EVERY READER OF THIS PAPER.

This Book Contains 183 Large Colored Engravings of Horses, Cattle, Sheep, Hogs, Poultry, etc. It cost us \$3000 to have our Artists and Engravers make the engravings. It contains a finely illustrated Veterinary Department that will save you Hundreds of Dollars. Gives description and history of the Breeds of Horses, Cattle, Sheep, Hogs and Poultry. The Editor of this Paper will tell you that you ought to have a copy of this finely illustrated Book for reference. We will give you \$1.00 worth of "INTERNATIONAL STOCK FOOD" if book is not exactly as represented.

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

for baby beef and that there is no likelihood of the market becoming oversupplied, even though stockmen generally 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 800 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 gain per head, in lbs. gain.	Grain per 100 lbs. gain.	Hay per 100 lbs. gain.
407	470	544
379	524	626
378	520	486
342	594	539
440	439	436
404	470	420

ture cattle, and the calves sold for as high prices per hundred as the same 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 sold 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 year-old 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 been kept under usual conditions and marketed two years later. The production of baby beef gives quick returns on the investment. The farmer who raises and fattens mature steers has 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 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 skim-milk 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 greatest 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, home-grown 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 hay 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 greatest gains, followed by alfalfa hay and 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. The 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.

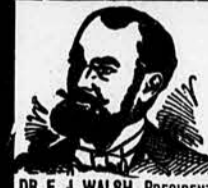
EDITOR KANSAS FARMER:—I note what Mr. P. T. Hamilton writes in a recent issue of the FARMER about the "color craze". His first assumption is monstrous. He claims the Shorthorn bull is not so prepotent in fastening his color upon his offspring as bulls of other breeds. I deny this and call for proof. 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. 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 Shorthorns, as well as the Hereford, Red Polled, Galloway, Polled Angus, 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 hundred weight." Mr. Hamilton takes this foolish statement for granted because it is in line with his prejudices. A more absurd statement, without qualification, 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 absurd 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 MEN ONLY.



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

Chicago Medical Institute,
518 Francis Street.
ST. JOSEPH, MISSOURI.

LIGHTNING GAS ENGINE AND SCALES




KANSAS CITY HAY PRESS CO.
129 Mill St. **KANSAS CITY MO.**



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 emanate 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 so, that is not so? He says the color is the first thing noticed by the buyer, and then if the color is bad he 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 according 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 bad 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-horn 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 Chickasaw 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 increased 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.

The Hereford Breeders' Combination Sale, held at the Stock Yards Sale Pavilion, 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.; Guggell & 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, Cois. R. E. Edmondson, F. M. Woods, J. W. Sparks and Carey M. Jones, who were unable to make more than \$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 \$277.63, and 32 bulls averaged \$209.19. Guggell & Simpson realized the highest prices among the consignors, their bulls averaging \$324.16, cows \$382.83, making a general average for their consignment of \$373.27; Scott & March bulls averaged \$160.00, females \$230.23, with a general average of \$235.35; C. A. Stannard's bulls averaged \$235.00, females \$276.43, general average \$255.42; O. Harris's bulls averaged \$246.66, females \$370.00, with a general average of \$347.17; W. B. Waddle bulls averaged \$173.33, females \$353.33, general average of \$317.33; Steward & Hutcheon bulls averaged \$136.00,

females \$369.00, with a general average of \$300.00; 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 heifers 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:

Table listing various cattle sales including breeders like Z. T. Kinsel, W. C. Swope, and others, with details on animal names, ages, and prices.

Table listing various cattle sales including breeders like Frank Rockefeller, J. W. Wampler, and others, with details on animal names, ages, and prices.

Advertisement for BROWN'S BRONCHIAL TROCHES, describing it as the best preparation for colds, coughs, and asthma, and listing the manufacturer, Mrs. S. A. Watson, and the distributor, Rev. Henry Ward Beecher.

Table listing various cattle sales including breeders like Clem Graves, E. B. Frazier, and others, with details on animal names, ages, and prices.

Winn & Mastin's Great Poland-China Sale.

On Tuesday, March 25, Winn & Mastin held their first public sale at Oak Wood Farm, Mastin, Kans. Heretofore the proprietors of this greatest American show-herd of Poland-Chinas of recent years have held their auction sales at Springfield, Ill., and only last month held one, making an average of \$125 for bred sows. It is their intention, however, to now hold their sales mainly at their home farm, and this one was an unqualified success. It was an ideal crowd. The best breeders of Missouri and Kansas were out in force, and forty-nine bred sows sold for \$4,371, an average of \$89.20, the best prices ever realized in the West for Poland-Chinas. Winn & Mastin included one young boar in their offering, Proud Perfection Jr., by Proud Perfection, which sold to C. E. Smoot, Petersburg, Ill., for \$51.

Table listing various cattle sales including breeders like H. L. Sweet, Oskosh, Wis., and others, with details on animal names, ages, and prices.

HINTS FOR WOMEN 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 complexion, 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 helped by Dr. Williams' Pink Pills for Pale People recommended them to me. I began to take them at once and had not used up a box before I felt a decided change for the better in my condition. Now I do not like to be without them."

The disease from which Miss King suffered was anæmia. It is characterized by a pallid 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 Pills for Pale People. These pills, taken in increasing doses, will never fail to effect a cure if used 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 anybody.

Table listing various products and prices, including items like Molly M. H. Davidson, Waverly, Kans., and others.

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. 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-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, 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 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.

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 frost is over sow five 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 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 crab-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 cholera 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 Compound 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 husband became impatient 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 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 Hoyt Street, Brooklyn, N. Y.—\$5000 forfeit 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 rather than fatness.

Excessive sweating in a horse 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 poor.

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.

corn, cats, and grass, with clover as the leading grass.

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 crop.

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 natural resources.

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

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; then they will know where it is when they want it to plant. In this connection we wish to call attention to the seed-corn advertisement of J. R. Ratekin & Son, which will be found in another place in this issue. Messrs. Ratekin's have made 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 time. Last year they sold seed-corn in 15 counties in Texas, and as a result of 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. In the great corn States of Kansas, Missouri, Nebraska, Iowa, and Illinois, they say that they naturally expect an avalanche 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 been 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 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 carefully inspected by experts, nothing but the best and most uniform grains for seed purposes; therefore they can 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 Page County, in which Shenandoah is located, produced almost six million bushels of corn and more than all the New England States combined, and an inhabitant of the county. The Ratekin's issue a neatly printed and nicely bound catalogue of 56 pages, in which there will be found much valuable information, which will be mailed free to every reader of this paper who will write for it. Write them to-day; it will pay you.

Under no conditions should the pig's nest 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

combined with persistent gentle rubbing 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 mention Kansas Farmer.

Uncommon Colds.

"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 uncommon variety is rarely recognized until it has fastened its hold on the lungs, and there are symptoms of consumption.



Dr. Pierce's Golden Medical Discovery cures coughs, bronchitis, "weak" lungs and other diseases of the organs of respiration. It increases the supply of pure, rich blood and builds up the emaciated 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.

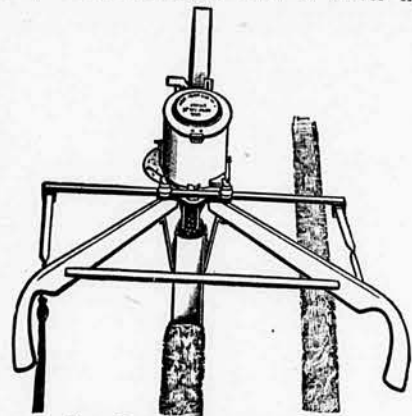
If you ask your dealer for "Golden Medical Discovery" because you have confidence in its cures, do not allow yourself to be switched off to a medicine claimed to be "just as good," but which you did not ask for and of which you know nothing.

Dr. Pierce's Pleasant Pellets cure dizziness and sick headache.

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 hen-house—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.

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 styles of these implements.

Address, Ames Plow Company, No. 42 Market Street, Boston, Mass.

The PERFECTION

Water Elevator and Purifying Pump

The simplest device for raising water. Easily adjusted to any well or cistern. Can be erected in 15 minutes. Steel chain and buckets galvanized after construction. Works silently; never freezes, takes air into the water, keeping it pure and sweet. Has every desirable feature. Lasts a lifetime. Thousands in general use. Price \$6, freight prepaid for complete pump for 40 ft. well or cistern. Add 50c for every additional foot in depth. Send for Free Catalogue. St. Joseph Pump & Mfg. Co., 301 Grand Ave., St. Joseph, Mo., U.S.A.



See Air Bubbles.

The Home 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
As she toils in the cotton and the cane.

My canoe is under water and my banjo is unstrung;
I'm tired of living any more;
My 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 door.

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.

Consolidation of Schools.

EDITOR KANSAS FARMER:—I move that writers upon the subject 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 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 thermometer 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 o'clock 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 order 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 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 governess 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 way 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 a 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 consolidation scheme is thought of I think we would better go on as we have been doing.

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 Schools."
WIMA DYER.

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. Woman'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 the women learn enough to demand justice, we will have cooperative din-

ing-halls; and the women become wives and mothers instead of cooks and wash-women; 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 so long as man is lost sight of in our scramble for dollars and cents, so long will it be impossible to solve 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, than 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 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 kitchen eleven hours out of the twelve, over boiling soap-suds and red-hot stoves, doing the work of three women in their efforts to retain their positions.

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 laborers, what will become of our own people 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 industrious" 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 streets.

Many have asked, "Why not let the

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 foreign labor compared to our American methods? Can we afford to drag our American laborers down to a level 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 subject.
Cottonwood Falls, Kans. F. B.

There is a pretty story in connection with the series of articles which Heler Keller, the wonderful blind girl, has written for The Ladies' Home Journal, telling about her own life from infancy to the present day. She has always shrunk from the publicity which follows successful literary work, and it was with great difficulty that she was persuaded to take up the task of preparing her autobiography. She had, however, set her heart on owning an island 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 it. When the work of writing appeared especially irksome Miss Keller was reminded of her desire to become a landholder, and it spurred her on. Just before Christmas she completed the first chapter of her marvelous story; and on Christmas morning she received from her publishers a check for a good round sum. Her delight may be imagined, 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 her plan to buy the island remains to be seen.

For a clear complexion, bright, sparkling eye and vigorous digestion, take Prickly Ash Bitters. It puts the system in perfect order.

The Reason Why



20,000,000 ACRES of the BEST GRAIN GROWING and GRAZING LANDS on the continent are being offered FREE is that settlement of these vast areas is required by the Government of the Dominion of Canada.

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

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

Deep soil, well watered, wooded, wheat averages 25 to 40 bushels per acre; oats 50 to 100 bushels and other grains in proportion. Cattle thrive and fatten on the native grasses. Fuel abundant, climate healthiest in the world, social conditions the best. Educational advantages unequalled. Taxation nominal.

Free Farms of 160 acres to every male of 18 years of age, and to every female head of a family. Railroad and Government Land for sale at low prices. For full information apply to F. F. McKay, Superintendent of Immigration, Ottawa, Canada, or to

J. S. CRAWFORD,
214 W. Ninth St., Kansas City, Mo.



No Mask
of eggs or glue is used in roasting

LION COFFEE

It is all coffee—pure coffee—strong and of delicious flavor. Some coffees are varnished with a cheap coating of eggs, glue or other equally noxious substances.

The sealed package insures uniform quality and freshness.

The Poultry Yard.

Preserving Eggs.

EDITOR KANSAS FARMER:—Is there such a thing as egg-preserved; and do you think eggs can be bought and preserved in summer and be as good as fresh eggs in the high-price season? Kindly answer through your paper. Lucas, Kans. ARTHUR ALLGOOD.

In the last three or four years the method of preserving eggs with a solution 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 one-half 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 yolk 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 water-glass solution seemed quite equal to the average fresh eggs of the market."

Water-glass, or soluble 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 1/4 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 preserving eggs may be made by dissolving one part of the sirup-thick water-glass in ten parts, by measure, of water. If the water-glass powder is used less is 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 Dakota 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 householder 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 sold 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

POULTRY BREEDERS' DIRECTORY.

Black Langshans

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. Zuller, Hiawatha, Kans.

HIGH CLASS POULTRY—Silver Wyandottes, White Wyandottes, and White Plymouth 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 embraces 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 not made up as the usual 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.

The Wichita Nursery, owned by W. F. Schell, Wichita, Kans., is a remarkably successful institution, and trees, fruit and ornamental, 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.

When writing our advertisers please mention Kansas Farmer.

\$12 The.. "400" Dueber-Hampden Watch. The best ladies' watch in the world. 14 kt. Gold-filled. 25 years' guarantee. Assorted engravings. Buy at Wholesale and save the middleman's profit. Send for catalog.

W. L. PEDERSEN, No. 119 Main Street. CLARINDA, IA.

Have at Stud—HOBSON and NOBLE BRANDANE, sired by Imported Brandane Rightaway, possibly the best Collie that ever left England, a winner and a sire of winner puppies 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.

DUFF'S POULTRY. Barred Plymouth Rocks, White Plymouth Rocks, Buff Cochins, Partridge Cochins, Light Brahmas, Black Langshans, Silver Wyandottes, White Wyandottes, Silver Spangled Hamburgs, Brown Leghorns, and Belgian Hares. First-class Standard Stock of Superior Quality. Stock For Sale. Eggs in Season. Write Your Wants. Circular Free. A. H. DUFF, Larned, Kans.

DON'T SET HENS. The same old way when our pens plus best at 10 times. 100 Egg Hatcher Costs Only \$1. Over \$4,000 in use. 1000000. 5000 agents wanted for 1902, either sex. Pleasant work. Big profits. Catalog and 100 Egg Formula FREE if you write today. Natural Hen Incubator Co., 218 Columbus, Neb.

VICTOR INCUBATORS. The simplest, most durable, cheapest first-class hatcher. Money back if not as represented. Circular free; catalogue 6c. We pay the freight. GEO. H. STAHL, Quincy, Ill.

200-Egg Incubator for \$12.00. Perfect in construction and action. Hatches every fertile egg. Write for catalogue to-day. GEO. H. STAHL, Quincy, Ill.

A MILLION TESTIMONIALS. DON'T CONVINCE 30 DAYS TRIAL WILL. Our 50 egg compartment hatcher have advantages over all other incubators. Bantams at \$5, \$9.50 and \$15 for 50, 100 and 200 egg sizes. Hatch every good egg. Send 2 cents for No. 54 catalogue. BUCKEYE INCUBATOR CO., Springfield, Ohio.

ON APPROVAL. If you don't like Burr Incubators send them back. Self regulating, self ventilating, have Burr Safety Lamp, no explosions, no fires, free catalogue. We pay the freight. BURR INCUBATOR CO., Box F 12 Omaha, Neb.

NO COLLEGE EDUCATION is needed to run the Sure Hatch Incubator. They are so simple that they run themselves. Made of California redwood, beautifully finished; twelve ounce copper tank, and hydro-safety lamp. Fully guaranteed. Our catalogue contains hundreds of photographs of the Sure Hatch Incubator at work, and valuable information. Sent free. Write nearest office. Sure Hatch Incubator Co., Clay Center, Neb., or Columbus, O.

THE ALL ROUND INCUBATOR. THE IOWA. has no Cold Corners but equal heat and ventilation in the egg chamber. Our methods are endorsed by prominent poultrymen because they succeed when others fail. Our FREE Catalogue will prove our claims. IOWA INCUBATOR COMPANY BOX 57, DES MOINES IOWA

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 ASH BITTERS

IS 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 preparing the entire body to resist the disease germs which come with warm weather. 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., Topoka.

Santa Fe

The Records of Poultrymen show that the SUCCESSFUL. St. Augustine, Fla., April 31, 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 53 Des Moines, Iowa, or Box 53 Buffalo, N. Y.

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 pasture 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 succotash 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 immense quantities of hog-pasture. It is sometimes seeded in the corn-field prior to the last working, and is used as pasture for stock after the corn is gathered, and it is said to greatly lessen the damage from impaction.

During the summer of 1901 the Kansas Experiment Station secured excellent results in pasturing green sorghum. 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 sorghum 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 partially empty stomachs, yet the man who pastures it must do so at his own risk.

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 successfully 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 Kafir-corn 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 securing green feed for our stock, it will also be necessary to renovate our old pasture. For this purpose a disk is an indispensable 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 vigor.

While providing for this year's emergency, 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 authorized

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 connection with it. A number of applications were at once registered, but only seven were admitted for the two months then remaining between November 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 skimming-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 resources. 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. Apprentices 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." Let 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 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 Klug 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 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 OTHER CREAM SEPARATORS

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.

BECAUSE.—The De Laval makers have ever been first and foremost in the manufacture of Cream Separators throughout 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 would-be 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.,
CHICAGO.

1102 ARCH STREET,
PHILADELPHIA.

103 & 105 MISSION ST.,
SAN FRANCISCO.

327 COMMISSIONERS ST.,
MONTREAL.

General Offices:
74 Cortlandt Street,
NEW YORK.

75 & 77 YORK STREET,
TORONTO.

248 McDERMOTT AVENUE,
WINNIPEG.

a fourteen- and a sixteen-foot length, 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 paper and the last course of boards as nearly simultaneously as possible, so one can watch the matching of the first half-inch 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 procured already made to set up. Objections 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 believes that it will pay in Kansas. A silo fifteen feet in diameter built like

this one, will hold three and a half tons 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-carrier.

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 germ-oil-meal, which they manufacture, and which have become so very popular among feeders of experience, who have used them. They are highly nutritious, easily digestible and capable of being readily 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 once.

The Veterinarian.

We cordially invite our readers to consult us when they desire any information in regard to sick or lame animals, and thus assist us in making this department one of the interesting features of the Kansas Farmer.

Fistula.—I have a mare about 9 years old that has a lump of some kind growing on her shoulder. It seems hard, and is about the size of a man's hand.

Answer.—It would be best to have a qualified veterinarian operate on it if possible, but if not, open up freely and inject peroxide of hydrogen, and when clean grease it on the outside well, and inject the cavity full of tincture of iodine; also soak absorbant cotton in the same and pack full.

Periodic Ophthalmia.—A short time ago I bought an 8-year-old black horse, practically blind in one eye and with the other affected. I worked him one week and thought he was getting better.

Answer.—Bathe the eye with hot water for half an hour, then take two grains of sulphate of atropine to one-half ounce of filtered rain-water.

Injured Back.—I have a pony that has been lame in the back for about two weeks. He eats all right and is in good condition.

Answer.—Take two and one-half ounces of oil of turpentine, two ounces aqua ammonia, and seven ounces of sweet-oil. Mix and apply once a day for small of the back.

Laminitis.—I have a horse that walks as though it was sore-footed from the front hoofs being too short, but he is worse when his hoofs have grown out long.

ing him, and he seems to be a little better. G.W. SMITH.

Overbrook, Kans. Answer.—Trim his hoofs down at the toes as short as they will stand and have him shod with bar shoes.

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 open.

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.

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 advocating 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.

The only reason I can give for the results 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.

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 droppings 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.

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.

To make cows pay, use Sharples Cream Separators. Book "Business Dairying" and Catalogue \$37 free. West Chester, Pa.

The U. S. Separator DOES BETTER WORK THAN THE OTHERS MISSOURI COLLEGE OF AGRICULTURE Columbia, Mo., Oct. 30, 1901. The machine (U. S.) did excellent work, and, as a rule, I believe it skimmed a little closer than the others we had in use.

DIP MOORE'S HOG REMEDY and cure Mange and Canker, kill Lice and Fever Germs, remove Worms and PREVENT CHOLERA, at a cost of FEED Five Cents Per Hog Per Year.

Feed Your Cattle Right It pays to feed a variety of feeds. Make a grain ration of ground corn with Gluten Feed and Germ Oil Meal These digestible feeds are nutritious, easily assimilated and cattle, hogs, calves, etc. eat them with a relish.

Notice to Dairymen If you are thinking of buying a Cream Separator, write us, or catalogue and information. We manufacture the best machine on the market. DAVIS CREAM SEPARATOR CO. 88-90-92 W. Jackson St., CHICAGO, ILL.

The Easiest to Operate, the Closest Skimmer, Simplest and most Durable, is the KNEELAND OMEGA Cream Separator. We want you to know how good it is before you buy any other kind.

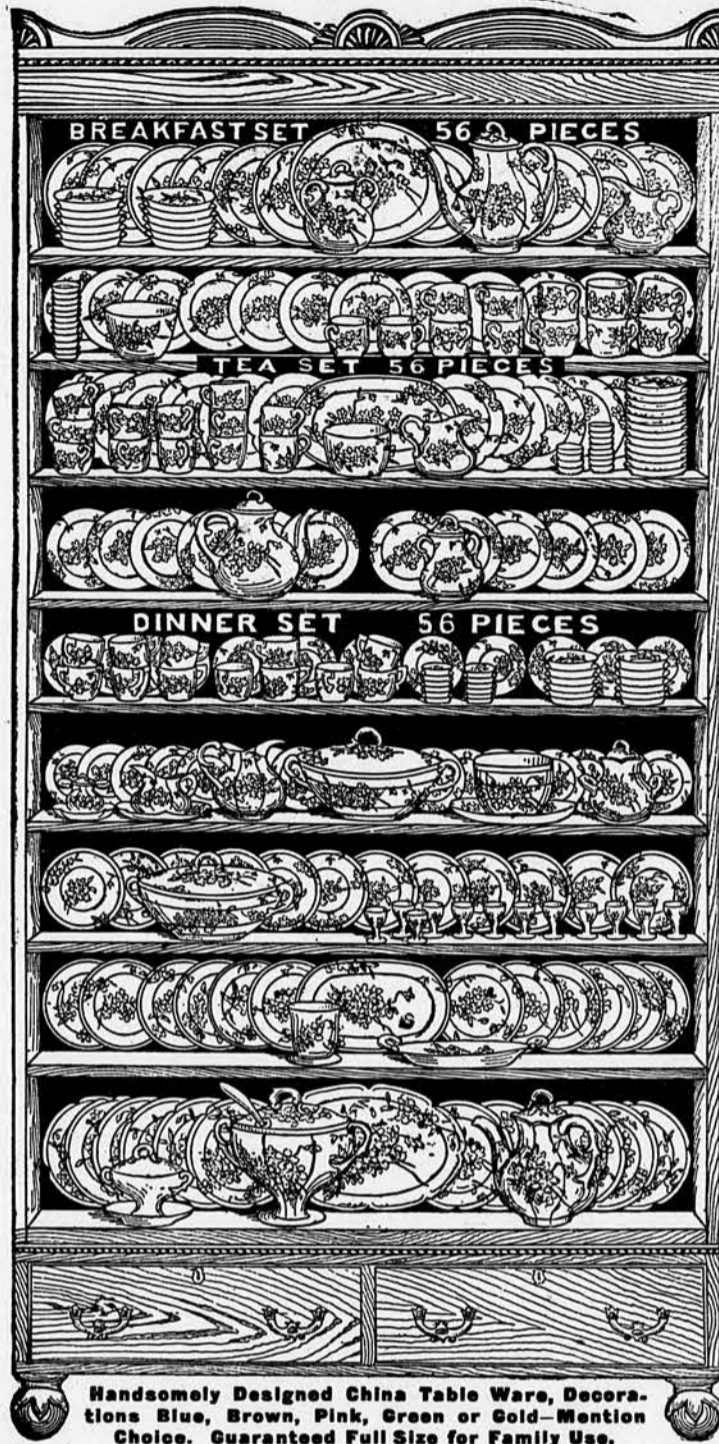
FLEMING'S LUMP JAW CURE. Easily and thoroughly cured. New, common-sense method, not expensive. No cure, no pay. FREE. A practical, illustrated treatise on the absolute cure of Lump Jaw, free if you ask for Pamphlet No. 146.

NOXEM PREVENTS HORNS. Perfect, Practical, Powerful Paste. Enough for 25 calves, per tube 50 cts. By mail 55 cts. AGENTS WANTED. E. S. NICHOLS 123 Ex. Bldg., So. Omaha, Neb.

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.

Are you a Dairyman? Do you sell milk? Are you hunting the best market? Have you been watching our price? Did you know we paid the first week in February 24 cents a pound for Butter Fat? The second week in February we paid 26 cents a pound for Butter Fat. We reached the climax when we paid the Third week in February 28 cents a pound for Butter Fat. Watch the New York Butter Market. Watch the Elgin Butter Market. Watch the St. Joseph Market for Butter Fat. Quoted every day. You always know what you are doing. No waiting, no uncertainty, no disappointment. A statement every week. We buy from the Farmer direct. Low rate of transportation for 500 Miles. Empty cans returned free. Thousands of Dairymen have bought Farm Separators. Thousands more will buy this year. 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.

When writing our advertisers please mention KANSAS FARMER.



Handsomely Designed China Table Ware, Decorations Blue, Brown, Pink, Green or Gold—Mention Choice. Guaranteed Full Size for Family Use.

56 PIECES
BREAKFAST SETS,
DINNER SETS, - -
TEA SETS, - - -
FREE!



Watch Warranted for 20 Yrs.

We give you a **56 PIECE BREAKFAST, DINNER, or TEA-SET**—full size for family use—**FREE OF COST.** Here is your opportunity. Do not miss it. This means exactly what it says. We give the Sets away **ABSOLUTELY** free. There is no fraud or humbug in this announcement. There is no juggling of words, no misrepresentation, no deception, no misunderstanding, no manipulation 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.)



6 Knives, 6 Forks, 6 Table Spoons, & 12 Tea Spoons

REASONS FOR LIBERALITY.

for all blood diseases, nervous disorders, sluggish circulation, impaired vitality, rheumatism, female complaints, liver, kidney, and stomach troubles. We guarantee it to be the best remedy on earth for these diseases. We wish to introduce "BLOOD GLOBULES" in thousands of homes where it has never been used, and have set aside in giving away valuable and useful presents to those who are willing to help us.

\$25,000 CASH TO BE SPENT

On request we will send you 7 boxes of Blood Globules, all charges paid, which are to be sold at 25 cents per box, remit the \$1.75 collected and we will present you with a 56 Piece Breakfast, Dinner, or Tea Set, and in addition we will immediately send you, all charges paid, a Watch, or 12 Silver-Plated Tea Spoons, 6 Table Knives, 6 Table Forks, 6 Table Spoons, a box of one dozen Stockings (ladies' or gents'), or a pair of ladies' or gents' Kid Gloves. Remember **YOU HAVE ONLY SEVEN BOXES OF BLOOD GLOBULES TO SELL—no more.**

THE ONLY CONDITION. MARK IT WELL.

This is one of the most sensational strokes of advertising ever launched and we will carry it out, as our reputation depends upon the fulfillment of every promise made. In these days of active competition in business enterprises, it is necessary to do something startling to outstrip one's rivals, and that is just what we intend to do. Of course a large amount of cash and nerve are required to enable anyone to take the lead. We have both Nerve and Cash and are ready to give a share of the **CASH TO YOU** in presents. We guarantee satisfaction to all who do business with us.

Address: **BLOOD GLOBULE COMPANY, NEW YORK CITY, N. Y.**

NO MONEY.

Remember you need not pay a Penny in advance. Only send your full name and post-office address with nearest Express and Freight Depot. We box, pack, and deliver the Sets **FREE OF ALL EXPENSE** to Express or Freight Depot and we further guarantee against breakage or damage in any form.

WRITE YOUR ORDER ON THIS FORM. CUT IT OUT AND SEND IT TO

BLOOD GLOBULE CO., New York. TOPEKA KANSAS FARMER

PLEASE SEND ME 7 BOXES OF BLOOD GLOBULES, WHICH I WILL SELL AT 25 CENTS A BOX, AND I AGREE TO REMIT THE \$1.75 WHEN SOLD. FORWARD ME THE PRESENTS SELECTED BELOW.

Name Town State

County Street and No.

Express Office Freight Office

Do you want a Breakfast, Dinner, or Tea Set? } What additional Premium do you want? }

If you do not wish to cut this paper then make a copy of this coupon and send us your written order.

California \$25.00
 VIA
SANTA FE.

DURING MARCH AND APRIL THE SANTA FE WILL SELL Colonist Tickets to California points and intermediates at the extremely low rate of \$25.00. Through train daily to Los Angeles and San Francisco, carrying free Chair cars and Tourist sleepers—the only line running them daily. Only three nights out, via the Santa Fe. Montana and Utah points, \$20.00; Oregon points, \$22.50; Puget Sound points, \$25.00.

For full information, sleeping car reservations, etc, Address,
T. L. KING, Agent, Topeka

The Farmers' Co-operative Grain and ... Live Stock Association...

will handle your grain, hay and feed on commission at Topeka, Kans., or Kansas City, Mo. If you appreciate honest work, good treatment and prompt returns, consign your grain to us. We want the consignment of all cooperative associations, independent dealers, scoop-shovel men, and farmers. Correspondence solicited. Address all communications to

JAMES BUTLER, Secretary,
 Kansas City address, 404 Board of Trade. ROOM 14, OFFICE BLOCK, TOPEKA, KANSAS.

WHEN WRITING ADVERTISERS MENTION KANSAS FARMER.

Would you Like a **Fruit Farm**
 In Wonderful Washington?
 "The State that is Always Green."

Low Settlers' Rates to the Northwest
 Every Day During March and April, 1902.

Free land; low-priced land; fine climate; splendid crops; good schools and churches; good neighbors. The growth and prosperity of the wonderful Northwest is unequalled in the history of America. Now is your opportunity to secure a home and farm. Don't neglect it. Write today. The good land is going fast. It will soon be gone.

These Bulletins tell you all about it. Send 2c stamp for each one wanted.

North Dakota Bulletin
 Milk River Valley (Mont.) Bulletin
 Flathead County
 Cascade County

Colville Reservation (Wash.) Bulletin
 Stevens County
 Central Washington
 Wenatchee Valley

Map and description of Washington (Folder.)

Write for rates and full information to any agent of
Great Northern Railway,

NEW YORK, 413 Broadway.
 BOSTON, 211 Washington St.
 PHILADELPHIA, 838 Chestnut St.
 BUFFALO, 408 Prudential Building.
 PITTSBURGH, 902 Park Bldg., 5th Ave.
 DETROIT, Nor. E. S. Co.'s Dock.
 MINNEAPOLIS, 300 Nicollet Avenue.

MILWAUKEE, 66 Wisconsin St.
 CINCINNATI, 5th & Walnut Sts.
 ST. LOUIS, 403 Carleton Bldg.
 KANSAS CITY, 822 Walnut St.
 DES MOINES, 407 Walnut St.
 ST. PAUL, 333 Robert St.

GREAT NORTHERN RAILWAY

F. I. WHITNEY,
 Gen. Pass. & Ticket Ag't,
 ST. PAUL, MINN.

MAX BASS,
 Gen'l Immigration Ag't,
 220 S. Clark St.
 CHICAGO, ILL.

SILOS
 the entire corn plant.
 How to build, how to fill and what to fill with. Write at once to
WILLIAMS MFG. CO., Kalamazoo, Mich.



OLEO or BUTTER?
 Ranch or Farm stock, stay in PAGE enclosures.
PAGE WOVEN WIRE FENCE CO., ADRIAN, MICH.

DO NOT BUY
WELL DRILLING

MACHINERY until you see our new Catalogue No. 41. We will furnish it to you FREE. Write to our address, either Harvey, Ill., Chicago, Ill., or Dallas, Texas.
F. C. AUSTIN MFG. CO.,
 Factories at Harvey, Ill.

THE BEST FENCE
 Can be made at the actual cost of wire. Over 100 Styles, and 60 to 70 rods per day. Horse-high, Bull-strong, Pig and Chicken-tight.
THE DUPLEX MACHINE makes it. The Machine is automatic, simple in construction, runs easy, works rapidly. Sent on Trial. Plain, barb wire and Gates at wholesale prices. Catalog free.
KITSELMAN BROTHERS,
 D 37 Muncie, Indiana.

DRILLING MACHINERY
 FOR WATER, GAS and MINERAL PROSPECTING
 Steam or Horse Power. We are the oldest and largest manufacturers of Drilling Machinery in this country. Our machines are faster, stronger and easier to operate than any other machine on the market. They are no experiment. Thousands are in successful operation. Special attention given repair work. Send for Free Illustrated Catalogue to
The Kelly, Tancylhill & Woodruff Co.,
 Waterloo, Iowa.
 Ask for Catalogue No. 33. 3 to 3 Chestnut St.

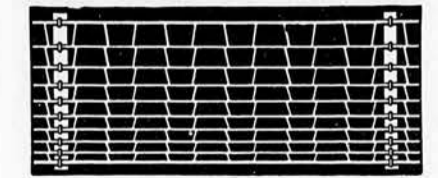
SEE THE SEED DROP.
 In plain sight of the operator.
MATTHEWS' New Universal
 (Improved for 1902)
HAND SEEDERS AND CULTIVATORS.
 Used by the most successful gardeners. They do perfect work. Open furrow, drop seed, cover any desired depth. Cultivating attachments. Latest and best. Popular prices.
AMES PLOW CO.,
 42 Market St. BOSTON.
 For Sale by Parlin & Orendorf, Kansas City, Mo.

This Tubular Fence Post
 made of Galvanized Metal and Vitreous Enamel. It is the most economical and durable post made. It will not rust, rot down or burn up. Specially good for farm, railroad, cemetery and lawn fencing. Posts made plain or beautifully ornamented. Extra large and strong posts for corners or other places of special strain. Any kind of barb, smooth, cabled or woven wire fencing can be securely fastened to the posts. Special fittings, as corner braces, gate hinges, etc. Good agent's proposition. Write for free circulars, prices and special terms.
BLOOMFIELD MFG. CO.,
 Box 4 Bloomfield, Ind.

STICKNEY JUNIOR
 A Perfect 3-Horse Power Gasoline Engine for Farmers at only \$110.00

Lowest price, simplest and best engine. A child can run it. Will do all the work of the farm, shop and home. Send for free catalog.
CHARLES A. STICKNEY CO., St. Paul, Minn.

ARE YOU WITH US?



The Dealer Is Against Us
 because we sell you wire fence direct from the factory at wholesale prices. The dealer does not give you a better fence than we do, but he charges you more for it. You can buy the
ADVANCE FENCE
 direct from us just as cheap as the dealer can. No loose ends. All closely interwoven. Cross wires can't slip. No small wires used. Write a post for circulars and prices.
Advance Fence Co., 130 K St., Peoria, Ills.

\$7 DAILY selling Easy Pump Governor. They make the hardest working pump work easy. Windmills turn in the lightest wind. Fits all pumps. Exclusive territory. No talk—merit sells it.
CHICAGO PUMP GOVERNOR & MACHINE CO.,
 134 Lake Street, Chicago, Ill.

JUST A WORD.
 Any of our full line of Carriages and Buggies sent anywhere on **30 Days' Free Trial.**
 How can we do this? Because we manufacture our own factory all vehicles we sell. Get one of our free money saving catalogues.
Kalamazoo Carriage & Harness Mfg. Co., Station 32, Kalamazoo, Mich.
 (Pioneers of the Free Trial Plan)

DAIRY KING BUTTER MACHINE
 The best in the world for the money. It is the most **PRACTICAL, USEFUL, SIMPLE and ECONOMICAL CHURN** there is made. By its use you can make the best creamery butter in from five to eight minutes. Guaranteed as represented or money refunded. **AGENTS WANTED.** Where we have no agent we will send a churn at agents' price to introduce it. Write for catalogue and prices.
ECONOMY SUPPLY CO.,
 562 Main Street, Kansas City, Mo.

FARMERS!
 This is What You Need
 A Cream Separator within the reach of all
 10 gal. \$4.00 | 20 gal. \$5.00
 15 gal. 4.50 | 25 gal. 6.00
 Write for catalogue.
DAY MFG. CO.,
 Winfield, - Kansas

No Humbug
 Three Perfect Instruments in One
 Humane Swine V. Stock Marker, and Calf Dehorner. Stops swine of all ages from rooting. Makes 48 different ear marks, large or small, with same blade. Extracts Horns. Testimonials free. Price \$1.50; or send \$1. get on trial; if it suits send balance. Patented April 23, 1901.
FARMER BRIGHTON, Fairfield, Iowa.

WILBERN BUSH, WICHITA, KANSAS.
 MANUFACTURER OF
GAS RELEASING BIT FOR CATTLE.
 This Bit is strongly made and durable—the mouth-piece being made of nickel and side bars aluminum—will last for years. For preventing and relieving Bloat from alfalfa and clover. Price \$1.00 each by mail to any address.

"THE EASY"
 Costs Little. Does Much.
 Any Child Can Run It.
 Can do more work in a day than 5 men with HOES. All made of steel. Propelling force goes direct to wheel. Tempered steel springs, automatic adjustment.
 See it at your dealers or write for free Catalog to
EASY CULTIVATOR COMPANY,
 70 West Main, INDEPENDENCE, MISSOURI.
LIVE AGENTS WANTED

HAVE YOU SEEN THE Jack of All Trades?
 —and hundreds of other jobs with the strength of 15 men. Most Convenient and useful power ever invented. Costs only TWO cents per hour to run. Especially adapted to farm work.
 IT IS A NEW ENGINE MADE BY
Fairbanks Morse & Company
 Chicago Cleveland Cincinnati Louisville Indianapolis St. Louis Kansas City
 St. Paul Minneapolis Omaha Denver San Francisco Los Angeles Portland, Ore.

When writing our advertisers please mention **KANSAS FARMER.**

NO NEED TO SUFFER FROM PILES...
 If you are afflicted with piles, either itching or ulcerated, you may have speedy relief. Peterson's Wonderful Pile Cure never fails to effect a prompt and permanent cure. All soreness and ulceration disappear at once. You experience no difficulty in self treatment and it needs be of but short duration. Regular price \$1. Our special price 60 cents prepaid.
 Our's is the only Wholesale Drug House selling direct to consumers at wholesale jobbing prices. Quotations cheerfully given. Agents wanted. Write to-day for our free illustrated book, "Guide to Health."
HELLER CHEMICAL COMPANY, Dept. 47, CHICAGO, ILL.

BEST ON EARTH YOU SAVE MONEY.
 In buying the **LOUDEN GOODS.** They work better, easier and last longer. No jumping track by door hangers, nor break-downs of hay tools in harvest—if you use the Loudens. Don't fail to get our catalogue showing scores of articles needed on the farm and ranch. Hay Carriers, Hay Slings, Hay Forks, Hay Stackers, Litter Carriers, Ice Tools, Hoists, Wire Stretchers, Ladders, Door Hangers, Door Latches, Hardware Specialties, etc. Also How to Build Hay Barns and Sheds. Address, **LOUDEN MACHINERY CO., Dept. D Fairfield, Iowa.**

OLDSMOBILE.
 Olds Gasoline Engines. Olds Pumping Engines. Olds Engine Oil. Elevator Supplies. Shafting, Pulleys and Hangers.
OLDS GASOLINE ENGINE WORKS,
 1114-16 Farnam Street,
J. W. Crawford, Mgr. Omaha, Neb.
 Mention Kansas Farmer.

OUR ADVANCE AGENT \$11.50
 Double Board Hardened Steel Plow, hard as glass all over.
 The best plow on earth at any price. 14 in. \$10.50
 16 inch only \$9.50
 12 inch \$9.50
 13-in. Hard Steel Castor-Counter **HAPGOOD PLOW CO.,** Box 75 Alton, Ill.
 with Plow \$1.50 extra. The only Plow Factory in the United States selling direct to the farmer.

29 YEARS SELLING DIRECT.
 We are the largest manufacturers of vehicles and harness in the world selling to consumers, and we have been doing business in this way for 29 years.
WE HAVE NO AGENTS
 but ship anywhere for examination guaranteeing safe delivery. You are out nothing if not satisfied. We make 125 styles of vehicles and 65 styles of harness. Our prices represent the cost of material and making, plus one profit. Our large free catalogue shows complete line. Send for it.
Elkhart Carriage & Harness Manufacturing Co., Elkhart, Ind.

The Business End of the NEW RUMELY SEPARATOR
 Like all the "Rumely Goods" this is simply perfection. When coupled to our New Rumely Rear Geared Traction Engine they constitute a threshing outfit that not only makes big money for the thrasher, but saves grain and money for the farmer. They are durable beyond comparison and when you buy them you are done buying for years to come. Take a little time to think about how it would pay you to own such an outfit, then write us for free catalog.
M. RUMELY CO., La Porte, Ind.

Spring Twist Wire Fence.
 You want a fence upon your farm that is a fence against all the stock you have there. That means you want the "Illinois Wire Company Stock and Hog Fence." Fine and close enough for pigs and poultry; high and strong enough for horses. Made in five heights, from 20 to 53 inches, using 6 to 11 cables. Lower cables 3 in. apart. Each wire is double, forming a cable, with spring twist between the stays. The springs yield when wires contract with cold and thus prevent breaking, and resume their position again upon expansion. Stays are crimped at crossings and tightly woven in so they cannot slip, and fence can never sag. No slipping or looseness, sagging or breaking about it, but stands firm and erect in heat or cold. Galvanized wire of hardest steel. Never injures stock, never pulls wool. Write for free illustrated catalogue, prices, etc.
ILLINOIS WIRE CO., Dept. M, CHICAGO, ILLINOIS.

YOUR MILL IS A FAILURE?
 Then We Call Your Attention to the
NEW WOLCOTT WINDMILL.
 Fifteen years actual test without a failure. Because it is the result of windmill experience. Simplest, most durable, most powerful, most perfect in regulation. Don't purchase steel mills because others have. They have been deceived, you can be also. Quality increases sales, and it is always money saving to purchase the best. Investigate our heavy angle steel and wood towers. Principle and workmanship are right. Our line of round, half round stock and reservoir tanks cannot be duplicated elsewhere for quality and price. Trial orders cheerfully received and promptly filled.
WOLCOTT WINDMILL CO., Waller & Niagara Sts., SAGINAW, W. S., MICHIGAN

Western Normal College
 More than 3,000 graduates; over 12,000 farmer students. The school for youths from the farm. Enter any time. \$75.00 pays for board, room, and tuition for 6 months. Cut out this ad. and mail to the President, and reduced railroad fare can be secured in most cases. Particulars and Free Catalog will be mailed promptly in reply. Address—
J. M. HUSSEY, President. Shenandoah, Iowa.

SEVEN GREAT SCHOOLS.
 Last year's enrollment 729. \$130 pays for week's board, tuition, room rent, and use of text-books. For FREE Illustrated Catalogue, address
ALLEN MOORE, President. Box 0. CHILLICOTHE, MO.

WHEN WRITING ADVERTISERS MENTION KANSAS FARMER.

SEED CORN Many varieties, bred very free from barrenness. Catalogue sent FREE.
 J. C. SUFFERN, Corn-breeder, Voorhies, Ill.

TREES and PLANTS THAT GROW and bear fine fruit. We grow thick kind. Large stock. Honest dealing. Low prices. We pay freight. Budded Peaches 60; Grafted Apples 50; Concord Grapes 20. English or German catalogue free.
 CARL SONDEREGGER, Prop. Box P, Beatrice, Neb.

Nebraska Grown Trees

Apple, 3/4 ft., \$3.50; Cherry, 3/4 ft., \$4.50; Peach, 3/4 ft., \$4.50, per 100. Catalog of all varieties free; it will pay you to have it.
 Address **BOWEN NURSERY**, Box 6, FAIRBURY, NEBRASKA.

GRAPE VINES OUR PORTLAND, N. Y. GRAPE NURSERIES, in the center of the famous Fredonia Grape Belt, produce the finest grape vines in the world. Prices as low as those of any reputable grower.—STARK BRO'S, Louisiana, Mo., Portland, N. Y.

HEALTHY TREES HOME GROWN, free from disease. We pay freight. Apples 3 to 4 ft., 60; cherry, 2 to 3 ft., 85; peach, 81; Concord grape, 82 per 100. 1000 Ash, 81; Catalpa, Locust, R. Mulberry, B. Elder and Osage Hedge; low price. Catalog free. Galbraith Nurseries, (Formerly Jansen Nursery) Box 32, Fairbury, Neb.

Grape Vines

Descriptive and Price List free. Currants, Gooseberries and other Small Fruit Plants. Extra quality. Warranted true.
 T. S. HUBBARD CO., FREDONIA, N. Y.

EVERGREENS Hardy sorts. Nursery grown, for wind breaks, ornament and hedges. Priced, \$1 to \$10 per 100-50 Great Bargains to select from. Write at once for free Catalogue and bargain sheets. Local Agents wanted.
 D. Hill, Specialist, Dundee, Ill.

SEED CORN

800 a bu. and up. Michigan Northern Crown is the earliest and produces largest crops. Hammond's Sixty Day Flint, American Pride, Race Horse Dent and Thoroughbred White Dent are the 4 famous varieties today. American Pride made 327 bu. shelled corn per acre. Fifteen other sorts. 200 Page Catalogue fully describing these wonderful corns sent on request. HARRY N. HAMMOND SEED COMPANY, Ltd. Box 74, Bay City, Mich.

Home-Grown Seed-Corn

Choice selected seed. Best white and yellow varieties. Also Red Russian Rust Proof Oats, Ohio and Triumph Seed-Potatoes. All sorts of field, garden and flower-seeds. Poultry-food, oyster-shells, ground bone. \$2.80 special collection garden-seeds for \$1.00; 26 varieties.

The New Seed-House, 705 Commercial St., Farmers' Seed Co., Atchison, Kans

GOLD MEDAL GLADIOLI

Groff's Hybrid Gladioli Received the Gold Medal and 13 First Awards at the Pan-American Exposition. I have the Latest and only Complete Collection of GROFF'S HYBRIDS in the United States, and Control over 75 per cent of all Stock Grown and Introduced by Mr. Groff. Write for Catalogue. ARTHUR COWEE, Gladiolus Specialist, Meadowvale Farm, Berlin, N. Y.

ALFALFA SEED. New Crop; thoroughly cleaned, evenly graded, no chaff nor waste to pay for. BUY IT WHERE IT GROWS nearest perfection and save money. Write for prices.
 GEO. H. MACK & CO., Garden City, Kansas.

GOT A DOLLAR? Invest it in our choice Fruit Trees, Shrubs or Vines. Ours will grow. They are well rooted, healthy and true to name. Send a trial order to-day. Due bill good for 25c and Catalogue in German or English free. We pay freight on \$10 orders.
Fairbury Nurseries, Box L, Fairbury, Neb.

ROCKY FORD SEED HOUSE

Truckers buy your Rocky Ford Cantaloupe Seed direct from the grower. 1203 FIRST PRIZE at the State Fair on them fall of 1901. Seeds grown under irrigation mature perfectly. My motto is "QUALITY FIRST." Valuable Catalogue telling how to grow and market these; also description and prices of all kinds of choice garden seeds, free. Write to-day.
 D. V. BURRELL, Rocky Ford, Colo.

GOOD SEEDS

Send at Once 25 cts. for our Great Garden Seed Collection. 10 full size packages of finest vegetables. A larger collection of 25 varieties for 50c. Both 25c collections for 40c, or both 50c col. for 70c. This is positively the greatest seed offer made. Send promptly, while stock lasts. Fine illustrated catalog sent FREE.
MISSOURI VALLEY SEED CO., P. O. Box 555, "The Good Seed Store," St. Joseph, Mo.

Seed-Corn

Grown in Kansas and Missouri
 Address **J. G. THAYER & CO.**, Atchison, Kas

SEED BOOK FREE

Do you want one? Handsomely illustrated with photographic reproductions from nature. Contains many colored plates, and is filled with bargains that will surprise you. No other seed book like it.
 140 Varieties, 12 Cents.
 5 kinds of Best Beets, 10 of the Grandest Cabbages, 15 of the choicest kinds of Lettuce, 6 of the Greatest Onions, 7 Grand New Tomatoes, 100 kinds of Gorgeous Flower Seeds, making in all 140 sorts, which will produce bushels of choice vegetables and immense quantities of lovely flowers, all for 12 cents and addresses of three friends who buy seeds and plants. Seed book free. Write to-day.
 F. B. MILLS, Seedman, Box 60, Rose Hill, N. Y.

THE COMET SPRAYER

\$2.00 and up
 At once a Sprayer and Force Pump for every day use about the house, barn, farm, garden, lawn and orchard. Continuous spray or stream; cheapest, best and simplest. Sprays trees, sprinkles lawns and plants, exterminates insects, washes windows and carriages, &c. Sprays from bucket or barrel, 50 ft. Get our free illustrated catalogue before you buy any other make. Write today.
 H. B. RUSLER, Johnstown, Ohio.

GOOD SEEDS CHEAP

BEST in the world. None better, and none lower price. Great Big Catalogue FREE. Nice big Pictures of every variety. Seeds 1c. per pack'g & up. A big lot of extra pack'gs; new sorts presented FREE with every order. Buy direct from the grower to get Good Seed. Send for big FREE BOOK.
R. H. SHUMWAY, ROCKFORD, ILL.

SEED-CORN KANSAS GROWN.

I have a fine lot of Yellow SEED-CORN for sale—my own raising—crop of 1900. Tipped, shelled, sacked, and f. o. b. cars. PRICE \$1.25 PER BUSHEL.
F. L. RAYMOND, Vera, Wabaussee Co., Kans.

SEED POTATOES!

Early Ohio and Early Rose. Two best varieties of Potatoes in existence. All our seed was grown in the Red River Valley of North Dakota, are absolutely free from scab and other disease, and are of as fine quality and grade as ever grew in the ground. Write for prices; also catalogue of Seed Corn and "Book on Corn Growing," as well as catalogue of all Farm and Garden Seeds. Always address,
J. R. RATEKIN & SON, Shenandoah, Iowa

VIRGINIA BEAUTY APPLE

Highest Quality Yet Attained. Bears Young, Large, Beautiful, Red Winter Apples. . . . The coming market apple. Tested in the west for 20 years. Trees in Virginia 55 years old still bearing good crops. A full line of Fruit Trees propagated from selected bearing trees. Also small Fruit Plants and Ornamentals. Our Book How to Grow Fruit and price list Free.
TITUS NURSERY, Nemaha, Neb

FREE GREGORY'S SEED CATALOGUE FREE 1902
 As the original introducer of the Miller Melon, Cory Corn, All Season's Cabbage, the Hubbard Squash, and a score of other vegetables that are now raised all over the United States, I offer the public head-quarter's seed. Send for free catalogue.
J. J. H. GREGORY & SON, Marblehead, Mass.

J. I. REYNOLDS, President. (Formerly of Trumbull, Reynolds & Allen.)
KANSAS CITY GRAIN & SEED CO.
 BUY AND SELL Millet, Cane, Kafir, Alfalfa, Red Clover, Timothy, Pop Corn, Seed Corn, Cottonseed Meal, Linseed Meal, Corn, Oats, Rye, Barley, Etc.
 KANSAS CITY, MISSOURI

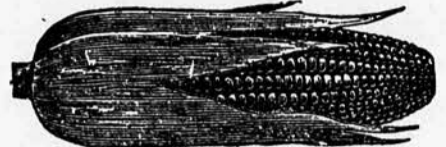
TREES

Ours have stood the test of 50 years. Send for price list.
 600 Acres. 13 Greenhouses. Established 1882.
PHOENIX NURSERY COMPANY, 1200 Park St., Bloomington, Illinois.

FOR SALE . . . SEED CORN.

Large Stock, Choice Quality, Hand Picked, A number of varieties.

All new corn. We make Seed Corn a specialty, and put nothing but choice seed on the market. Address
HUMBOLDT GRAIN EXCHANGE, Humboldt, Kans.



WESTERN SEED AND AGRICULTURAL HOUSE

Reliable, Tested Seeds and Garden Implements.
 We are always in the market for seeds. When you have some to sell, write us. For catalogue and price list, write
MANGELSDORF BROS. CO., ATCHISON, KANSAS.

SEED CORN

Drouth Resisting! We have it! Send 2-Cent Stamp for Samples, Prices, and Testimonials, to
J. B. ARMSTRONG & SONS, Shenandoah, Iowa.

BURPEE'S SEEDS ARE THE BEST THAT CAN BE GROWN

If you want the choicest vegetables or most beautiful flowers you should read BURPEE'S FARM ANNUAL FOR 1902,—so well known as the "Leading American Seed Catalogue." It is mailed FREE to all. Better send your address TO-DAY. **W. ATLEE BURPEE & CO., PHILADELPHIA.**

SEED TWENTY-FIVE YEARS OF OUR OWN IMPROVEMENT. CORN

We have won four-fifths of the first prizes at the Nebraska State Fair for the past 19 years. At the 1901 State Fair we won all the prizes offered on field corn; 11 firsts and 9 seconds. We ship it in ear if so ordered, and have shipped on approval for 17 years, if not satisfactory to be returned at our expense, and we to return purchase money; and not one bushel has been returned. Immense yield in 1901. For a descriptive price list and samples, address with 2-cent stamp,
M. H. SMITH & SON, De Soto, Nebraska.

TOPEKA SEED HOUSE.

'PHONE 42.... ESTABLISHED 1876. 306 KAN. AVE.
SEED POTATOES.
 We have now a stock of choice Northern Early Ohio Seed Potatoes shipped direct from the growers on the Red River. \$1.50 Per Bushel.
SEED CORN.
 Send to a long established Seed House for your Seed Corn. We have some choice carefully selected Seed Stock grown in Kansas. More to come from Northern growers. Address **S. H. DOWNS**, Manager,

SEED CORN

FIFTY YEARS on the Farm; EIGHTEEN Years in the SEED CORN BUSINESS as a Specialty, convinces us that farmers prefer to buy their seed direct from the reliable grower; then he knows where it is grown; also that it is not Commission House or Elevator corn sent out for seed; besides he saves the Middle Man's profits. We are the largest Seed Corn Growers in the World and have sent out more seed corn during the last 18 years than any other Growers, Seed House, or Seed Firm in existence. We are headquarters for Seed Oats as well. Carload orders a specialty. Write for our FREE Catalog of Seed Corn, Farm, and Garden Seeds; also "Book on Corn Growing." Always address
J. R. RATEKIN & SON, Shenandoah, Iowa.

HOW TO RAISE LARGER AND BETTER CROPS.

The U. S. Department of Agriculture shows conclusively that this can be done only by selection of the heaviest and largest seed for planting.

The WONDER GRAIN GRADER admitted perfect by all users, is the only machine or process that can make such selection, and is guaranteed to perfectly select the heaviest, largest, and best, or any grade desired, of all wheat, oats, rye, barley, clover, alfalfa, and other like seeds. Such selection is made, without screens, by the Power of Gravity, the only constant and steady force known, weighing and sizing each grain selected.

Try the WONDER for thirty days. If it is not all we claim, all you expect or want, return it to us; and we will refund the purchase price; no questions asked, no unpleasantness whatever. Write us for U. S. Government report on superior value of large, heavy seed, and for descriptive matter of the WONDER. Address:
EUREKA MFG. CO., 24 and O Streets, LINCOLN, NEB.
 All oats can be improved from 25 to 50 per cent this year.

WHEN WRITING OUR ADVERTISERS, MENTION KANSAS FARMER.

J. G. PEPPARD, MILLET OATS
 1101 to 1117 West 8th St. CLOVERS SEEDS
 (Near Santa Fe St.) TIMOTHY
 KANSAS CITY, MO. GRASS SEEDS.

SEEDS Clover, Timothy, Blue Grass, Rye, Barley, Millet, Cane Seed, and Garden Seeds. Bale Ties, Garden Tools, Seed Sowers. Send for Catalogue.
TRUMBULL & CO.
 1426 ST. LOUIS AVE.,
 KANSAS CITY, MISSOURI,

ALFALFA SEED OUR SPECIALTY. We are head- quarters for this kind of drouth resisting plants, and can furnish pure, plump, vigorous seed crop 1901 in car or one-bushel lots. Also all other kinds of field seeds. Write us for prices.
MOBETH & KINNISON, Garden City, Kansas.

KENTUCKY BLUE GRASS SEED.
 For a beautiful as well as a most profitable pasture sow **BLUE GRASS.**
 The genuine Kentucky seed is what you want, and from September until June is the proper time to sow. For pure seed of our own raising, and full particulars, write **MT. AIRY SEED FARM, Paris, Kentucky.**

SEED 1000 bushels Select Seed from 1901 Crop Pure Golden Cap field-corn, grown continuously on my rich Platte Valley lands for 12 years. Above 50 bushels per acre last season. A 100 day corn, bright golden yellow, small cob, deep grain, yielding abundantly always. Tipped, sacked, f. o. b. cars, \$1.25 per bushel. Write for sample, descriptive circular and price-list.
J. M. MAHER, Fremont, Neb.

Berry's Seeds are just right. Price at bottom. Quality on top. We are headquarters for everything in line of Seeds for Field, Garden and Lawn. Full line of Poultry Supplies. We want you for one of our 1902 customers so much that we will send you free, two regular sized packages of Vegetable and one of Flower Seeds. Send two 2c. stamps to help mailing the same. Our Seeds are true to name, being genuine quality and cheaper than others sell for. Our catalogue is free. Ask on postal for it. We sell to farmers at wholesale prices. Can save you money. Be friendly. Write us.
A. A. BERRY SEED CO., Box 50, Clarinda, Ia.

CANE; MILO MAIZE, MILLET, AND KAFFIR-CORN SEED
 IN LOCAL AND CAR LOTS. FULLY MATURED SEED.
F. R. MATHEWS, COOLIDGE, KANS.

SOUTHWESTERN IOWA SEED HOUSE
 Best varieties Field-corn a specialty. We handle nothing but best of pure seed and want your orders. Samples free. Write for circular and price-list to-day.
ROSS & FERRELL, Prop's,
 Farragut, Iowa.

"Western Seeds for Western Planters."
KANSAS SEED HOUSE.
 We keep everything in the line of SEEDS for Farm, Field, and Garden—Fresh, Pure, and True. Alfalfa and Grass Seeds our specialty. Champion Beardless Barley and Russian Speltz—two Grand Novelties for dry soils. Bromus Inermis—the new drouth-proof grass. Limited quantity of Macaroni wheat for those who wish to try it. Send for descriptive circular and elegant new catalogue for 1902, and learn all about them. Free to all.
F. BARTEDES & CO., SEEDSMEN, 804 Mass. St., Lawrence, Kas

FINE SEED CORN CATTLE KING, medium early, from 60 to 100 bus. per acre, is one of the best cattle corns grown. EARLY REED, light yellow, ears from 9 to 12 in. long, deep grain, small cob, matures in 100 days, will yield more than any other early variety. MAMMOTH WHITE—We think this variety the very best for these wanting white corn, medium early, ears from 9 to 14 in. long, white cob. Our corn is all selected, tipped, shelled, sacked, and f. o. b. cars. Price \$1.25 per bushel. Write for samples.
W. W. VANSANT & SONS, Farragut, Iowa.

SEED CORN If you need Seed Corn, write for my Descriptive Circular and Price-list.
 I have a good quantity of the best-grown pure seed, hand-picked, and dried, of following standard varieties: Legal Tender (yellow), White Pearl, and Early Yellow Rose. Also Early Amber Cane-seed and Early Oats. Secure samples, etc. Write
FRED ECHTENKAMP,
 Arlington, Nebraska.

HENRY BROS., FAIRFIELD, IOWA,
 ...Announce to their trade they are offering their...
 BLACK DIAMOND SEED OATS, 100 lbs., \$3; or 500 lbs., \$13. IOWA'S PREMIUM WHITE OATS, 100 lbs., \$2.75; or 500 lbs., \$12. YELLOW DENT SEED CORN, \$1.50 per bu.; or 6 bu., \$7.50.
 CHOICE WHITE CORN, \$1.50 per bu.; or 6 bu., \$7.50.
 Write for prices of Choice Clover, Timothy, and Millet Seed.

SEED CORN

HE WAS PLEASSED
 Rooks Co., Kans., Feb. 20, 1902.
 "Enclosed please find money order for \$7.50 for which ship me (6) six bushels of your yellow prize Seed Corn. A neighbor showed me a sample of the seed he got from you. I WAS PLEASSED WITH IT."
 GEO. DYARMAN.
White or Yellow Prize
 Large, medium early, new corn, hand picked, dry, tipped, and well matured. Shelled, sacked on board cars \$1.25 per bushel. Car load lots a specialty. Catalog free.
Griswold Seed Co.
 P. O. Box A. LINCOLN, NEB.

SALZER'S New 20th Century OATS
 TEST YIELD 300 BUS. PER ACRE
CLEAR THE TRACK!
 Here is the monarch—nothing like it on earth. Salzer's New 20th Century Oat takes the cake, carries first prizes as the biggest yielder everywhere. The fact is, Salzer's oats are bred to produce. The U. S. Department of Agriculture claims that out of over 400 samples and kinds tested, Salzer's were the best. How do you like that, Mr. Farmer? Our new 20th Century Oat is bound to completely revolutionize oat growing and we expect dozens of farmers to report yields in 1902 running from 200 to 300 bushels per acre. Price is dirt cheap. Be in the swim and buy this variety this spring to sell to your neighbors the coming fall for seed. It will surely pay you.
Salzer's Marvel Wheat—42 bus. per Acre
 The only spring wheat on earth that will yield a paying crop north, east, south, and west and in every state in the Union. We also have the celebrated Macaroni wheat, yielding on our farms 63 bushels per acre.
SPELTZ
 The most marvelous cereal and hay food on earth, producing from 60 to 80 bushels of grain and 4 tons of rich hay per acre.
VEGETABLE SEEDS
 We are the largest growers and our stock of earliest Peas, Beans, Sweet corn and all money making vegetables is enormous. Prices are very low. Onion seed 60 cents and up a pound. Catalogue tells.
For 10c—Worth \$10
 Our great catalogue contains full description of our Beardless Barley, yielding 109 bushels; our Triple Income Corn, going 400 bushels; our potatoes, yielding 600 bushels per acre; our grass and clover mixtures, producing 6 tons of magnificent hay; our Pea Oat, with its 8 tons of hay, and Teosinte with 80 tons of green fodder per acre. Salzer's great catalogue, worth \$100 to any wide awake gardener or farmer, with 10 farm seed samples,—worth \$10 to get a start—is mailed you on receipt of 10c. postage.
JOHN A. SALZER SEED CO., LA CROSSE, WISC.

SEED CORN Get a Bigger Corn Crop by planting seed from thoroughbred varieties. We are growers of Field and Farm Seed. Our Specialty is Seed Corn. We devote careful attention to growing the varieties which are the most productive. We grow varieties which are suited for all sections of the corn belt. Our seed is carefully sorted and examined by men having years of experience. Each ear is hand selected. We can supply you with Seed Oats. Write us for free descriptive catalogue. Send 4 cents in stamps and we will send you samples of 5 varieties of Seed Corn and 2 varieties of Seed Oats. Address **C. M. WEST SEED CO., Shenandoah, Iowa**

FARM SEEDS Cheapest new varieties of Seed Oats, Wheat, Barley, Cane, Seed Corn, Dwarf Essex Rape, Potatoes, Artichokes and all kinds of field, grass and garden seeds. Large illustrated catalogue of great value to farmers free, if you mention this paper. **IOWA SEED CO., Des Moines, Iowa.**

SEED Oats
 55c a bu. and up.
 The cleanest, heaviest, best yielding oats are Michigan Northern Crown, Hammond's Nameless, Hammond's English Wonder, Oar of Russia and Michigan Wonder, the four best varieties. Rust proof, stiff straw, have yielded 250 bu. per acre. Catalog describing these oats and all other farm seeds on request.
HARRY N. HAMMOND SEED COMPANY, Ltd.
 Box 74. Bay City, Mich.

Skunk! SHIP THEIR FURS, HIDES, PELTS, WOOL, ETC. To McMillan Fur & Wool Co. Minneapolis, Minn. WRITE FOR CIRCULARS

DR. COE'S SANITARIUM
 Established 15 Years

 Located at Twenty-sixth and Wyanotte Streets.
 A pleasant Remedial Home. Organized with a full staff of Physicians and Surgeons for the treatment of all Chronic and Surgical Diseases, and equipped to treat, room and board patients. A quiet home for women during confinement. Trusses, Braces, and Appliances for Deformities manufactured.
 Trained Attendants. Best Invalid's Home in the West. Diseases of Women a Specialty.
 Write for circular on deformities—club feet, curvature of the spine—nasa, throat, lung, kidney, bladder, and nervous diseases, stricture, piles, fistula, tumors, cancers, paralysis, epilepsy, all eyes, skin, and blood diseases.
 All the Most Difficult Surgical Operations Performed With Skill and Success.
 New restorative treatment for loss of Vital Power, Rupture, Varicocele, Hydrocele, Hare Lip, etc. Persons unable to visit us may be treated at home by mail. One personal interview preferred. Consultation at office or by letter free and confidential. Thirty years' experience in Sanitarium work. My book, to either sex, containing much valuable information, sent free. Address,
DR. C. M. COE, Propr.,
 Office, 915 Walnut St., Kansas City, Mo.

Furs! • Furs!
 SHIP YOUR SKUNK
 and other raw furs to me. A trial shipment will convince you that you can get better prices for them here than by shipping elsewhere. Prompt returns and full value guaranteed. Write for tags and prices on Furs, Hides, Wool, Tallow, and Pelts
W. W. CADWALLADER, Nebraska City, Neb.

When in Chicago, Stop
 At the newly furnished and decorated hotel. Steam heat and electric elevators. Formerly the Clifton House, but now the
Windsor-Ohlton Hotel
 Corner of Monroe Street and Wabash Avenue. Located most central to the wholesale and retail stores, theaters and public buildings. The prices range from 75 cents and upwards per day. European plan. Visitors to the city are welcome.
SAMUEL GREGSTEN, Proprietor

O. F. MENNINGER M. D., Consulting Physician.
 727 KANSAS AVENUE, TOPEKA, KANSAS.
 Specialties: Chronic, and Obscure Diseases Heart and Lungs

DR. DIX'S Celebrated Female Powders never fail. 1000 Ladies declare them safe and sure (after failing with Tansy and Pennyroyal Pills), particularly a cough. **DR. S. T. EGAN, Revere, Boston, Mass.**

BED-WETTING I will send FREE sample of a simple remedy that cured my child. **Mrs. G. SUMNER, Box C, Notre Dame, Ind.**

RUPTURE CURED while you work. You pay \$4 when cured. No cure, no pay. **ALEX. SPEIRS, Box 935, WESTBROOK, MAINE.**

Ladies Our monthly regulator never fails. Box FREE. **DR. F. MAY, Bloomington, Ill**

BED-WETTING CURED. Sample free. **DR. F. E. MAY, Bloomington, Ill**
 When writing advertisers, please mention KANSAS FARMER.

SEVEN GREAT SCHOOLS
THE MILLER SYSTEM OF COLLEGES
 NEW YORK CITY CHICAGO, ILL. ST. LOUIS, MO. ST. PAUL, MINN. ST. CINCINNATI, OHIO. ST. CLEVELAND, OHIO.
 WRITE NEAREST BRANCH FOR CATALOGUE
WE WANT MEN TO LEARN BARBER TRADE.
 We have facilities that save years of apprenticeship. If you want a comfortable business without capital, or steady employment at good salary, learn this trade; quickly and scientifically. Comparatively no expense. Anyone can learn.
 Classes for Ladies in Hairdressing, Manicuring, Facial Massage and Chiropody.
 For free catalogue and full particulars address nearest college.

MAINS' HERD OF POLAND-CHINAS.
Pigs by Anderson's Perfect, Harris' Black U. S. (the champion sweepstakes boar at the Iowa State Fair of 1900), Kemp's Perfection (the highest priced pig by Chief Perfection 2d sold last year). Stock of all ages for sale, including three yearling boars.
JAMES MAINS Oskaloosa, Kansas.

BLACKLEGINE

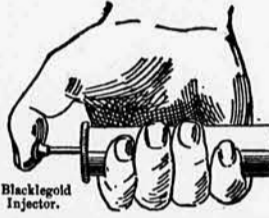
Pasteur Blackleg Vaccine ready for use.
Single Blacklegine (for common stock): No. 1 (10 doses) \$1.50; No. 2 (20 doses) \$2.50; No 3 (50 doses) \$6.00. Double Blacklegine (for choice stock) \$2.00 for 10 doses, first lymph and second lymph inclusive. Blacklegine Outfit, for applying Blacklegine, 50 cents.

Pasteur Vaccine Co.,

Chicago, New York, Kansas City, Ft. Worth, Denver, San Francisco.

Vaccinate Your Cattle

PARKE, DAVIS & CO.'S BLACKLEGOIDS (Blackleg Vaccine Pills)
WILL POSITIVELY PROTECT THEM FROM BLACKLEG.



Our Blacklegoids afford the simplest, safest, surest method of vaccination. No filtering is necessary, no measuring, no mixing. Each Blacklegoid is an exact dose, and it is quickly and easily administered with our Blacklegoid Injector. While still marketing our "Blackleg Vaccine Improved," we recommend the use of our Blacklegoids because of their absolute accuracy of dosage and their ease of administration. Ask your druggist for them and you will get a vaccine that is reliable, a vaccine that has stood every test. Write us for literature—free on request.

PARKE, DAVIS & CO., Detroit, Mich. Branches: New York, Kansas City, Baltimore, New Orleans, Chicago; Walkerville, Ont.; Montreal, Quebec, London, Eng.



Colonist Excursion Rates

Every day during the months of March and April, 1902, the UNION PACIFIC will sell Colonist Excursion tickets at the following one-way rates:

MISSOURI RIVER AND KANSAS POINTS.

- To San Francisco and many other California points... \$25.00
- To Butte, Anaconda and Helena..... 20.00
- To Spokane..... 22.50
- To points on Great Northern Ry., Spokane to Wenatchee, inc., via Huntington and Spokane..... 22.50
- To points on Great Northern Ry. west of Wenatchee via Huntington and Spokane local over Winatchee, not to exceed..... 25.00
- To Portland, Tacoma and Seattle..... 25.00
- Ashland, Ore., and Intermediate Points, including Branch Lines on S. P. Co. south of Portland, via Portland..... 25.00

Corresponding low rates from intermediate points on the UNION PACIFIC.

Write for rates to points not given above.

F. A. LEWIS, City Ticket Agent,
525 Kansas Avenue.

J. C. FULTON,
Depot Agent.



THROUGH SLEEPING CAR SERVICE

KANSAS CITY TO JACKSONVILLE FLORIDA

Breeders' Directory.

DUROC-JERSEY SWINE.
D. TROTT ABILENE, KANS., famous Duroc-Jerseys and Poland-Chinas
Registered Stock, **DUROC-JERSEYS**, contains breeders of the leading strains.
N. B. SAWYER, - - Cherryvale, Kansas
M. H. ALBERTY, - - Cherokee, Kansas
DUROC-JERSEYS.
100 head for this year's trade; all eligible to record.
MAPLE AVENUE HERD J. U. HOWE, WICHITA, KANS., Farm 2 miles west of city on Maple Avenue
DUROC - JERSEYS.
FAIRVIEW HERD DUROC-JERSEYS. Have sold all spring males, but have about 60 fine pigs of September and October farrow at reasonable prices. **J. B. DAVIS, FAIRVIEW, BROWN CO., KANS.**

ROCKDALE HERD OF REGISTERED DUROC-JERSEY SWINE Stock for sale at all times. **J. F. Chandler,** - - Frankfort, Kans.
DUROC-JERSEY SWINE—REGISTERED Write for prices on what you want in February, March or April Glits open or bred, to order. A few extra June and July pigs, \$10 each.
NEWTON BROTHERS, - - Whiting, Kansas

DUROC-JERSEY HOGS FOR SALE. Glits of the lengthy, deep-bodied type, bred for March and April farrow, and a good lot of 4 to 6 months old pigs of both sexes.
S. Y. THORNTON, Blackwater, Mo.

STANDARD HERD OF Registered Duroc-Jerseys
PETER BLOCHER, Richland, Shawnee Co., Kans. Herd headed by Big Joe 7363, and others. S. C. B. Leghorns.

POLAND-CHINA SWINE.

V. B. HOWEY, R. F. D. 5, Topeka, Kas BREEDER AND SHIPPER OF
POLAND-CHINA HOGS, JERSEY CATTLE, S. L. WYANDOTTE CHICKENS. Eggs in season

POLAND-CHINAS. Fifteen April and May boars, 1 yearling boar by Chief Perfection 2d. Good fall and spring glits bred to our GREAT HERD BOARS.
DIETRICH & SPAULDING, Richmond, Kansas

RIVERSIDE HERD OF POLAND-CHINA SWINE Contains up to date and prize-winning individuals. Young stock for sale. Correspondence or inspection solicited.
M. O'BRIEN, (Riverside), Liberty, Kansas

W. P. WIMMER & SON, Mound Valley, Kans., Breeders of **FASHIONABLE POLAND-CHINA HOGS** Young stock for sale at all times. Prices reasonable.

Kansas Herd of Poland-Chinas Has some extra fine glits bred; also some fall boars. Will sell Sen. I Know, he by Perfect I Know.
F. P. MAGUIRE, Haven, Reno County, Kans

High-Class Poland-China Hogs
Jno D. Marshall, Walton, Harvey Co., Kans Breeds large-sized and growthy hogs with good bone and fine finish and style.

SHADY BROOK STOOK FARM North Topeka, Kans. Devoted to Breeding High-class **POLAND-CHINAS** Address all communications to **H. W. CHENEY,** Owner, NORTH TOPEKA, KANSAS

SUNNYSIDE HERD OF Pedigreed Poland-China Hogs We now have for sale some extra good young boars and a lot of glits 8 to 10 months old. All good. Glits will be bred or sold open as desired. This is a choice lot of young stuff that will be priced cheap, quality considered.
M. L. SOMERS, Altoona, Kans.

VERDIGRIS VALLEY HERD OF POLAND-CHINAS. For Sale: 12 head of the best early boars that I ever produced; large, heavy-boned, and smooth. Ten head of May, June, and July boars that are fancy; also one last fall's boar that is a show pig.
E. E. WAIT, Altoona, Kans. Successor to WAIT & EAST.

Thoroughbred Poland-China Hogs Special drive on 10 spring boars, weighing from 180 to 225 pounds, at prices to move them. They are large, lusty fellows, 3 of them good enough to head any pedigree herd; also 20 choice glits that I will breed to Star Perfection, by L's Perfection, Black Perfection—grandson of Missouri's Black Chief and L's Perfection, and Corwin's Improver. 100 head in herd. Write for anything you want in Poland-China hogs. **John Bollin,** KICKAPOO CITY, KAS. (Express Office, Leavenworth.)

R. S. COOK, Wichita, Kansas, Breeder of **POLAND-CHINA SWINE** The prize-winning herd of the Great West. Seven prizes at the World's Fair. The home of the greatest breeding and prize-winning boars in the West, such as Banner Boy 2841, Black Joe 28608, World Beater, and King Hadley. FOR SALE—An extra choice lot of richly-bred, well-marked pigs by these noted sires and out of thirty-five extra-large, richly-bred sows. Inspection or correspondence invited.

POLAND-CHINA SWINE.
SHADY LANE STOCK FARM. HARRY E. LUNT, Proprietor, Burden, Cowley Co., Kans
Registered Poland-Chinas 25 Boars and 25 Glits of late winter farrow, sired by Searchlight 25513, and Look No Further. Dams of the Black U. S., Wilkes, Corwin, and Tecumseh strains. Prices low to early buyers.
Attention is called to the Public Sale of Poland-Chinas on March 21, 1902, at Winfield, Kans., by Snyder Bros. and H. E. Lunt.

..KRAMER'S.. POLAND-CHINAS FOR SALE: Boars old enough for service. Ten strictly fancy glits bred to a son of Ideal Black Chief by Missouri's Black Chief. High-scoring Barred Plymouth Rock cockerels, score cards by David Larson. Pekin ducks for sale. Address—
D. A. KRAMER, Washington, Kansas

BERKSHIRE SWINE.
Ridgeview Farm Herd of LARGE ENGLISH BERKSHIRES Pigs of fall farrow for sale. No more bred glits. White Wyandotte eggs, \$1.50 per 15.
MANWARING BROS., Lawrence, Kans

CHESTER WHITE SWINE.
D. L. BUTTON, North Topeka, Kas BREEDER OF **IMPROVED CHESTER WHITES** Stock For Sale. Farm is two miles northwest of Reform School.

CATTLE.
ENGLISH RED POLLED CATTLE—Pure-bred Young Stock For Sale. Your orders solicited. Address **L. K. HASELTINE,** DORCHESTER, GREEN CO., MO. Mention this paper when writing.

MEADOW BROOK SHORTHORNS—Ten fine young bulls for sale—all red. Red Laird, out of Laird of Linwood, at head of herd.
F. C. KINGSLEY, Dover, Shawnee County, Kansas.

A. BUMGARDNER & SON, Holton, Kansas, Breeders of **RED POLLED CATTLE** A herd bull and a few young ones for sale.

POLLED DURHAM. The leading herd west of the Mississippi river. 25 head of both sexes for sale. Foundation stock sold to Kansas and Washington Agricultural Colleges the past year. **A. E. BURLEIGH,** Knox City, Knox Co., Mo.

Registered Herefords Ten extra good bulls, 7 to 12 months old; 8 are sired by Klondike 72001, and 2 by Young Autocrat 10417. Will sell cheap. **ALBERT DILLON,** Hope, Kans

ESKDALE HERD OF ABERDEEN-ANGUS CATTLE YOUNG STOCK FOR SALE. **JAMES FRATER,** Fredonia, Wilson Co., Kans

MAPLE LEAF HERD OF THOROUGHbred Shorthorn Cattle, and Poland-China Swine. Farm is 2 miles south of Rock Island depot. **JAMES A. WATKINS,** Whiting, Kans.

Registered Herefords. **THOS. EVANS,** Breeder, Hartford, Lyon County, Kansas. Special Offerings: Young cows and heifers, and a few bulls for sale.

E. H. WHITE, Estherville, Iowa. IMPORTER AND BREEDER OF **GALLOWAY CATTLE** Herd Foundation Stock A Specialty. A few choice Females and 14 Bulls for sale. Inspection or Correspondence invited.

MEADOW BROOK FARM F. H. CONGER, Proprietor, YATES CENTER, KANS. Devoted to the breeding of **Registered Shorthorn Cattle** Lavender's Best No. 151839 in service. Herd contains a strong infusion of St. Valentine blood, through St. Valentine 12th, one of his best sons. Stock always for sale. Inspection and correspondence invited.

CLOVER CLIFF FARM REGISTERED GALLOWAY CATTLE. Also German Coach, Saddle, and trotting-bred horses. World's Fair prize Oldenburg Coach stallion Habbo, and the saddle stallion Rosewood, a 16-hand 1,100-pound son of Montrose in service. Visitors always welcome. Address—**BLACKSHERE BROTHERS,** Elmdale, Chase County, Kansas.

JAMES A. FUNKHOUSER PLATTSBURG, MO., BREEDER OF HIGH-CLASS HEREFORDS BULLS IN SERVICE: Healed 2d 40679, March On 6th 90537, Healed 8th 11632, Onward 2d 11859.

CATTLE.

SHORTHORN BULLS.
 FOR SALE: Registered and high-grade Shorthorns of Cruickshank breeding. No better bulls anywhere. Bargains for quick buyers. Address
A. C. JORDAN, Lyons, Kansas.

COBURN HERD OF RED POLLED CATTLE.
 Herd numbers 115 head; 20 full-blood, and high-grade bulls for sale, from 6 to 18 months old.
Geo. Groenmiller & Son, Centropolis, Franklin Co., Kans.

Forest Park Stock Farm.
FRED COWLEY, COLUMBUS, KANS.,
 BREEDER OF REGISTERED
SHORTHORN CATTLE.
 FOR SALE: FOUR YEARLING BULLS.

SCOTCH-TOPPED SHORTHORN CATTLE.
 FASHIONABLE
POLAND-CHINA SWINE.
 REGISTERED BULLS FOR SALE.
L. A. MEAD, Carbondale, Kansas.

FALL RIVER HERD OF ..REGISTERED..

HEREFORD CATTLE.
 Darling's Star 54302 and Howard 87731 at head of herd. A few young bulls for sale.
Wm. McBROWN, Fall River, Kans.

RICE COUNTY STOCK FARM.
 PURE-BRED
SHORTHORN CATTLE AND POLAND-CHINA SWINE.
 First-class young stock for sale. Just ready for use on the range. Address **GEO. B. ROSS, Alden, Rice County, Kansas.**

10,000 BIG STEERS.
 You want Pan Handle stuff. Extra good feeders. You may want a ranch. We have both and at bed-rock prices. Write us for prices on stock or fine farm land. We are the people.
JACKSON BROS., Miami, Texas.

GLENWOOD Shorthorns and Poland-Chinas HERDS
 Shorthorns headed by Victor of Wildwood, by Golden Victor, by Baron Victor. Late herd bull Gloster 187952. Polands headed by Glenwood Chief Again. For sale choice young bulls; also females. Prices right. Choice fall boars and gilts cheap. Visitors invited. Correspondence solicited. Address
C. S. NEVINS, Chiles, Miami Co., Kans.
 30 miles south of K. C., on main line of Mo. Pac. R. R.

..SUNFLOWER HERD..
SCOTCH, AND SCOTCH-TOPPED
Shorthorn Cattle, Poland-China Swine
 Herd Bulls, Sir Knight 124403, and The Baron 21327.
 Herd Boars, Black U. S. 2d 25582 S, and Missouri's Best On Earth 19836 S.
 Representative Stock For Sale.
 Address **ANDREW PRINGLE, Wabaunsee Co., Eskridge, Kansas**

DOLOER BLOSSOM SHORTHORNS
 Herd Headed by the Cruickshank Bulls
Imp. Nonpareil Victor 132573
 sire of the champion calf and junior champion bull of 1900
..Grand Victor 115752...
 Himself a show bull and sire of prize-winners.

FEMALES are Scotch, both imported and home-bred, pure Bases, and balance 3 to 6 Scotch tops.
STOCK FOR SALE.
Geo. Botwell, Mottetown, Caldwell Co., Mo.
 On Burlington Railroad.

GLENDALE SHORTHORNS, OTTAWA, KANSAS.
 Leading Scotch, and Scotch-topped American families compose the herd, headed by the Cruickshank bull cotland's Charm 187364, by Imp. Lavender Lad, dam by Imp. Baron Cruickshank. Twenty bulls for sale.
O. F. WOLFE & SON, Proprietors.

CATTLE.
D. P. NORTON'S Breeder of Pure Bred **SHORTHORNS** **SHORTHORN CATTLE**
 Dunlap, Morris Co., Kans. Herd Bull, Imported British Lion 133692. Young stock for sale.

E. S. COWEE, Burlingame, Kans., R. R. 2, Breeder of PURE-BRED HEREFORD CATTLE, and DUROO-JERSEY SWINE.
 Kid's Duke 96837 at head of herd. Young bulls and heifers for sale.

Norwood Shorthorns V. R. ELLIS
 Gardner, Ks
 Sir Charming 4th at the head of herd. Cruickshank-top crosses on best American families. Young stock for sale.

PIPE CREEK HERD REGISTERED Galloway Cattle
 of either sex for sale.
 Address **J. A. DARROW, Heber, Cloud Co., Kans.**

Silver Creek Shorthorns.
 The Scotch bull, Gwendoline's Prince 186919, in service. Also the imported Scotch Missile bull, Aylesbury Duke. 100 head of the best Scotch, Bates, and American families. High class Duroo-Jersey swine for sale.
J. F. STODDER, Burden, Cowley Co., Kans.

BREED THE HORNS OFF BY USING A RED POLLED BULL.
CHAS. FOSTER & SON, Foster, Butler Co., Kans.
 Breeders of RED POLLED CATTLE.
 Herd headed by POWERFUL 4682. Pure-bred and grades for sale. Also prize-winning Light Brahmas.

Pure-bred Galloways
 Young Breeding Stock for Sale
 Several Bulls Ready for Immediate Service.
 Also pure-bred Cotswold rams and a car-load of coach-bred native mares, 2 to 5 years old. Write for prices.
W. G. McCANDLESS & SON, Cottonwood Falls, Kans

Rock Hill Shorthorns and ..Saddle Horses..
 Bulls in service, Semptress Valentine 157069, and Mayor 129229. A fine string of young bulls and a few heifers for sale.
J. F. TRUE & SON, Proprietors.
 Post-office, PERRY, KANS. Railroad station, Newman, Kans., on Union Pacific R. R., 12 miles east of Topeka

...ALLENDALE HERD OF... Aberdeen-Angus Cattle
 The Oldest and Largest in the United States
 Splendid recently imported bulls at head of herd Registered animals on hand for sale at reasonable prices at all times. Inspect herd at Allendale, near Iola and La Harpe; address Thos. J. Anderson, Manager, Iola, Allen Co., Kans., R. R. 2, or—
ANDERSON & FINDLAY, Prop's, Lake Forest, Ill.

Scotch Shorthorns FOR SALE.
 The Great Missile Bull, Imp. Mariner 135024,
BRED by W. S. Marr, Uppermill, sired by Golden Bay (67182), dam Missile 88th by Ventriquoist (44180). Also SIX YEARLING BULLS of choicest Scotch breeding.
HANNA & CO., Howard, Kans.

THE GEO. H. ADAMS HEREFORDS
 AT LINWOOD, KANS.
 YEARLING Bulls and Heifers for sale, sired by Orpheus 7109, and Ashton Boy 6908, and out of choice imported, and home-bred cows. Address all correspondence to **GEORGE F. MORGAN, General Manager, Linwood, Kansas.**

GALLOWAYS
 DISPERSION SALE of the entire Waverly Herd, at SOUTH OMAHA, FEB'Y 28 and MARCH 1, 1902.
 For Catalogue and other particulars, address
W. H. B. MEDD, V. S., NOBLES COUNTY, DUNDEE, MINN.

MT. PLEASANT HERD OF SHORTHORNS.
 Herd headed by Acomb Duke 18th 142177. Herd composed of Young Marys, Galateas, and Sanspareils. Thirteen young bulls for sale; also some cows.
A. M. ASHCRAFT, Atchison, Kans. R. F. D. No. 2.
 Inquire at Sagg's Livery Barn, Main Street.

Aberdeen-Angus. EVERGREEN STOCK FARM.
 Have 15 registered bulls—7 to 21 months old, sired by Niel of Lakeside 25445; also registered cows and heifers, highly bred. Will sell in lots to suit. Call or address
GEO. DRUMMOND, Elmdale, Chase County, Kansas

CATTLE.
O. F. NELSON, Hiawatha, Kansas
 Breeder of REGISTERED
Hereford Cattle.
 Herd headed by Dandy Dolan 192829 full brother to famous Dandy Hex.

H. R. LITTLE, HOPE, DICKINSON CO., KANS.,
 Breeds Only the Best, Pure-Bred
SHORTHORN CATTLE.
 Herd numbers 125, headed by ROYAL Crows, 186490, a pure Cruickshank, assisted by Sharon Lavender 148002.
 FOR SALE Just Now—16 BULLS of serviceable age, and 12 Bull Calves. Farm is 1 1/2 miles from town. Can ship on Mo. Pac. R. I., or Santa Fe. Foundation stock selected from three of the great herds of Ohio.

HORSES AND MULES.
 10 Home-bred Shire and Norman Stallions Cheap
HART BROS., Jamison, Iowa.

LEAVENWORTH COUNTY JACK FARM
 Thirty head of Jacks and Jennets for sale.
O. J. Corson, Potter, Kas

PEROHERON HORSES, and ABERDEEN-ANGUS CATTLE.
GARRETT HUBST, Breeder, ZYBA, SUMNER COUNTY, KANSAS. Young stock for sale of either sex. All registered.

FOR SALE! SIX JACKS and a Registered Black PEROHERON STALLION.
F. W. POOS, Potter, Atchison Co., Kansas

World's Fair Jack Importing Co.
 Have just received their first importation of Catalan jacks from the world's most famous jack producing country, Spain. It is conceded that there are none equal to them. For particulars, prices, etc., write or call on us at Union Stock Yards, St. Louis, Mo.
J. W. Overstreet and Dr. N. S. Bryant, Prop'r's.

T. K. Tomson & Sons,
 * * Proprietors of * *
Elderlawn Herd of Shorthorns.
 DOVER, SHAWNEE COUNTY, KANSAS.
 Gallant Knight 1244468 and Imported Tellycairn in service. A choice lot of serviceable bulls, and a few bred cows for sale. Correspondence and inspection invited.

Sunny Slope Herefords
...200 HEAD FOR SALE...
 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

Pearl Shorthorns.
 YOUNG BULLS FOR SALE sired by the Cruickshank bulls Golden Knight 108086, Lafitte 119915, and Baron Ury 2d 124970, ranging in age from 8 months to 2 years.
 Inspection Invited
C. W. TAYLOR, Pearl, Dickinson Co., Kans.

Gudgell & Simpson, Independence, Mo.,
..BREEDERS AND IMPORTERS OF.. Herefords
 One of the Oldest and Largest Herds in America.
ANXIETY 4TH Blood and Type Prevail
 Both Sexes, in Large or Small Lots, Always For Sale

LIVE STOCK AUCTIONEERS.
CAREY M. JONES, Live Stock Auctioneer,
 Davenport, Iowa. Have an extended acquaintance among stock breeders. Terms reasonable. Write before claiming date. Office, Hotel Downs.

R. E. EDMONSON, late of Lexington, Ky., and R. Tattersall's (of Chicago, limited), now located at 208 Shields Building, Kansas City, Mo., offers his services as Live Stock Auctioneer. All the Herd and Stud Books. Wire before fixing dates.

W. O. WARNER, AUCTIONEER
 900 E. 4th St., Topeka, Kans.
 Twenty years' experience. Terms reasonable. Write before claiming date.

R. L. Harriman, Live Stock Auctioneer,
 Bunceton, Mo.
 SALES made everywhere. Thoroughly posted and up-to-date on breeding quality and values. Have a large acquaintance among and am selling for the best breeders in the country. Terms low. Write for dates.

Lafe Burger WELLINGTON, KANS. LIVE STOCK AUCTIONEER.
 Fine Stock Sales a Specialty
 Am booked for the best coming sales I want your next sale. Write or telegraph your dates.

LIVE-STOCK AUCTIONEER
Col. J. N. HARSBERGER
 Lawrence, Kans.
 Special attention given to selling all kinds of pedigree stock; also large sales of graded stock. Terms reasonable. Correspondence solicited. Mention Kansas Farmer.

James W. Sparks, Live Stock Auctioneer
 Marshall, Mo.
 Sales Made Anywhere
 Have been and am now booked for the best sales of high-class stock held in America. Thoroughly posted on pedigrees and individual merit. Large acquaintance among the leading stock-breeders of America. Terms reasonable. Write me before claiming your date.

HORSES AND MULES.

PERCHERON STALLIONS

FOR SALE. DIRECT 1889, by Bendago 11807, by Brilliant 1271, dam Fenelo 14118 by Fenelon 2682, by Brilliant 1271. Bendago's dam the famous prize-winner Julia 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 consistent with quality. Address, or come and see at

Wahfield, Olay County, Kansas.

Prospect Farm.



H. W. McAFEE, Topeka, Kansas,

Breeder of

OLYDESDALE HORSES, AND SHORTHORN CATTLE.

For Sale—25 Olydesdales, including 8 registered stallions of serviceable age, and 18 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.

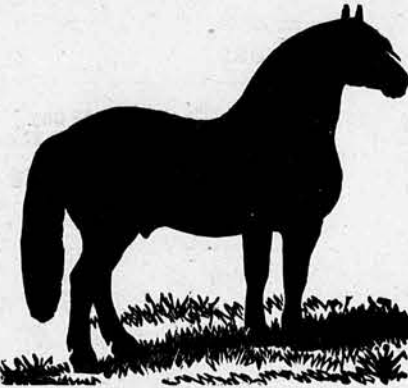
PHILIP WALKER, Breeder, MOLINE, ELK CO., IANS

25 Mammoth, Warrior, and Spanish Jacks Now 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.

PERCHERONS

J. W. & J. C. ROBISON, Importers and Breeders, TOWANDA, BUTLER COUNTY, KANSAS.



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

RIVERSIDE STOCK FARM.

O. L. THISLER, Chapman, Dickinson Co., Kans., IMPORTER AND BREEDER OF

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.

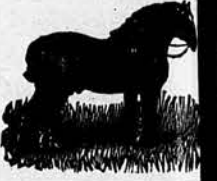


WE ARE NOT THE LARGEST IMPORTERS

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 Shorthorn and Hereford bulls and cows at a bargain.



S. A. SPRIGGS, Westphalia, Kansas

BREEDER AND DEALER IN

Registered Mammoth, and Imported Spanish Jacks and Jennets; 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 October 1, 1901—mostly black, 8-year-olds, 30 imported stallions. An elegant string of 25 big two's and three's of my own breeding. Thirty years in the business. Come and see the horses.

M. L. AYRES, Shenandoah, Iowa



SNYDER BROS., Winfield, Kans.,

Breeders of

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 season giving ample time to acclimate them. No concern in the United States has better facilities in the way of barns, stalls, hallways, etc., to restate their natural condition. We have a large number of coal black Percherons, 2-, 3-, and 4-year-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 Phone—576. THE LINCOLN IMPORTING HORSE CO., 33 & Holdrege, Lincoln, Neb

THE BURGESS & GRAY IMPORTING CO.

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

Are again 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 BE 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 STALLIONS

Percherons, Shires, and Clydes.



We have a selection that are sure to suit you. As grant 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 Europe. 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.

German Coach, Percheron, and Belgium Horses

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 personally acquainted with the best breeders in France, Germany, and Belgium. We can save you money. Come and see us. We shall exhibit at the International Live Stock Exposition, Chicago, Dec. 1-7, 1901.



ROYAL BELGIANS, PERCHERON

Our importation of July 10 are in good condition and breeding. We don't stuff or pamper our horses to deceive buyers; a pampered horse don't get colts until reduced in flesh. These horses are all large size and the best quality of breeding. Their ages run from 2 to 5 years and their weight in driving flesh from 1,800 to 2,200 lbs. Colors are blue and strawberry roans, blacks, bays, and dapple greys. For quality and bone they cannot be duplicated in Illinois or Iowa. They measure now in solid bone from 13 to 14 inches. I sell horses on the smallest profit and the best guarantee, and give best bargains and terms sell on time on good paper. It will pay parties in need a breeding stallion to come to Pontiac and see this lot of horses. Pontiac is on the C. & A., Ill. Cent., and Wabash Railroads, 92 miles south of Chicago; 65 miles east Peoria, and 60 miles west of Kankakee.

NICKOLAS MASSION, IMPORTER, PONTIAC, ILLINOIS

AMERICA'S LEADING HORSE IMPORTERS.

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

The number of Percherons alone imported by us was 10 per cent greater than 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.



OAKLAWN FARM

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 bought by any other firm, and more high-class animals than by all others combined.

AT THE RECENT INTERNATIONAL LIVE STOCK EXPOSITION AT CHICAGO

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

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

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

DOUBLE BLACK U. S. AT OUR DISTILLED BREEDING AUCTION!

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 Gilts, Young Sows Heavy in Pig, and 5 Topy 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.

Col. James W. Sparks, Auctioneer.

Apply for Catalogues to O. P. SHELTON, Manager, PAOLA, KANSAS.

ROME PARK STOCK FARM.

T. A. HUBBARD, Rome, Kans.,

... BREEDER OF ...

**Poland-Chinas and
Large English Berkshires.**

FOR SALE—12 Berkshire boars and 20 bred sows and gilts, 20 Poland-China boars, and 50 bred sows and gilts

FOR SALE.

SEVEN HEAD OF REGISTERED HEREFORD BULLS

OF SERVICEABLE AGES, EXCELLENT BREEDING, AND ALL GOOD INDIVIDUALS.

BARNES & BIRCHER, Pratt, Kansas.



STEELE BROS., Belvoir, Douglas Co., Kans.,
Breeders of **SELECT**

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, Zella, Belina, Ruby. This is a select draft from my herd and will constitute one of the best offerings of the year 1902. Also breeds registered and high-grade Angora goats.

SCOTT & MARCH

BREEDERS OF PURE BRED

HEREFORDS.

BELTON, CASS COUNTY, MO.

BULLS in service, HESIOD 29th 66304, Imp. RODERICK 80155, MONITOR 58275, EXPAN-
SION 9-662, FRISCOE 98674, FULTON ALAMO 11th 83731.

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

Valley Grove Shorthorns

THE SCOTCH BRED BULLS

LORD MAYOR 112727, and LAIRD OF LINWOOD 127148
HEAD OF THE HERD.

LORD 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 Gallahad 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 by Lord Mayor for sale.

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

...IDLEWILD HERD...

.... OF

SHORTHORN CATTLE

OWNED 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.
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.
ONE OF THE CRACKS OF THE DAY IN A VICTORIA BULL BY GODOY, 13 MONTHS OLD, ROAN, WILL SELL.

Combination Sale

... AT ...

FAIR GROUNDS, WINFIELD, KANS.,

MARCH 21, 1902

Fifty choicely bred Poland-China hogs, 12 choicely bred and tried brood sows, 4 prize-winning gilts—granddaughters 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 sweepstakes 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 high-grade. Apply to **SNYDER BROS.,** for Catalogue.

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

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

...GREAT SALE...
OF PURE-BRED

Poland-Chinas

.. AT ...

OLATHE, KANSAS, MARCH 10, 1902.

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 No. 1,

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.

G. 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 LELAND 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-red, and that have remarkable smoothness 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. WOODS, Auctioneer. **C. H. NIGH, Mead, Nebraska.**

..PUBLIC SALE..
...BATES-BRED...
SHORTHORNS

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

ON MARCH 20, 1902,

.....AT THE.....

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 HERD

OF

SHORTHORNS

The Property of **Col. W. R. Nelson**, at **Kansas City Sale Pavilion,**
ON 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 are 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.

AUCTIONEERS: EDMONSON, JUDY, JONES, AND SPARKS. * **FOR INFORMATION, CATALOGUES, Etc., ADDRESS** **F. H. GLICK, Manager,** ROOM 4, STAR BUILDING, **KANSAS CITY, MISSOURI.**

Combination
Shorthorn Sale

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

Grand Array of

Breeding Cattle

55 Registered Shorthorns
 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 follows: 25 head from 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

AT OMAHA!

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

52 Registered Shorthorns, Pure Scotch--Straight Bates

A Red Letter Day in Shorthorn Camp

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; about 20 straight Bates,—balance Scotch and Bates-topped; 18 calves 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.