

KANSAS FARMER

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KANSAS STOCK AND CROPS

Horses, Cattle and Sheep in Good Condition--Feed Plenty.

WHEAT GENERALLY PROMISING.

Fruit Prospect Good, Excepting Peaches--Farmers Sowing Oats and

BEGINNING THE SPRING WORK.

Special Reports from Nearly Every County Direct from the Farmers.

The KANSAS FARMER has organized a corps of special reporters for the purpose of giving information at stated times in relation to the weather, crops and stock in Kansas. We present this week our first report. It will be seen that sixty-eight counties are represented, enough to show the condition of the entire State. It should be stated that most of these reports came in a few days earlier than we desired. The intention was to get as close to February 28 as possible, but most of the reports were made up from three to five days before that, so that the showing may be taken as a mirror of Kansas on the 25th day of February. Conditions have not changed for the worse since.

The reports are answers to the following questions sent out from this office: (1) What was the general character of the winter in your locality? (2) How did the stock come through the winter? (3) What is the condition of stock? (4) Have the farmers feed enough to last till grass comes? (5) What is the condition of winter wheat? (6) What is the condition of fruit buds? (7) Has anything been done toward the spring farm work and what?

Allen County.—Winter very mild until January 8, and after that very severe for six weeks, stock came through well generally, condition good now except in neglected cases, plenty of rough feed, but short of corn along Neosho bottoms which overflowed last spring, condition of the wheat good, peaches all dead, other fruit all right, never so much fall plowing done before, spring plowing begun.

Anderson.—Colony.—Winter colder than usual, hard on stock, stock came through well, in good condition now, plenty of feed. Wheat in good condition. Average crop of fruit expected. Spring work further advanced than usual. Good deal of fall plowing done....**Garnett.**—December and February mild, January cold, stock came through in fair condition, corn scarce, rough feed plenty, great deal of fall plowing done.

Atchison.—Winter was fair, stock came through all right, present condition fair, enough of feed, no fly in wheat, apple buds good, peach dead, no spring work done yet.

Barber.—Average winter, stock came through in good condition, all fed, and in good condition now. Feed plenty, wheat good, fruit mostly killed, farmers plowing for oats.

Barton.—Winter very cold, with worst storms ever known. Considerable loss of stock, present condition pretty good considering the hard winter, enough of feed with a few exceptions, wheat not winter-killed, fruit buds nearly all frozen, plowing for oats.

Brown.—Hiawatha.—Winter fine to January 1, very severe after that date, stock

came through fairly well, some losses of hogs, present condition of horses, cattle and sheep fair, hogs below average, feed enough, wheat somewhat winter-killed, fruit uncertain, no spring work done....**Fairview.**—Cold January, stock came through with slight loss except hogs, present condition good, feed abundant, fruit doubtful, no spring work done.

Butler.—Very severe winter, stock came through in good condition, and most of the farmers have enough feed, some fruit buds killed, no spring work done.

Chautauqua.—As hard a winter as ever known. Some stock came through pretty well—others not, present condition just tolerably good. Enough of feed, wheat good, majority of fruit killed, some plowing done.

Cherokee.—Cold and disagreeable winter, stock came through very well and is in fair condition now, enough feed as a general thing, wheat fair, fruit buds good, some plowing done for oats.

Clay.—December mild, January cold. A few farmers lost stock during the bad weather of January, present condition fair, feed enough, wheat much better than a year ago, don't know about fruit, no spring work done.

Cloud.—December and February mild, January roughest ever witnessed. A few lost stock from lack of shelter, present condition of stock good, feed enough for an ordinary spring, wheat thin but not damaged by winter. Peach buds all dead, other kinds all right, some spring work done.

Coffey.—Strawn.—December fine, January very cold and stormy, February mild, stock came through generally in fair condition, in average condition now, plenty of feed, 90 per cent of wheat alive, peach buds badly damaged, some oats sowed....**Burlington.**—Winter cold with plenty of snow, stock came through in good shape, in fair condition now, most farmers have enough feed, wheat in good condition, fruit buds except peach all right. No spring work done.

Cowley.—Most of the time winter was good—cold and clear, stock came through in splendid condition and are generally in good condition now. Hear no complaint of shortage in feed, fruit prospect good, getting ready to sow oats.

Crawford.—Except January the winter was mild and dry. Stock came through in good shape, present condition good, feed is plenty, wheat uncertain, fruit all right except peaches, good deal of fall plowing done, farmers pruning orchards, hauling manure and preparing for spring work.

Davis.—Winter mild and pleasant except January which was cold and severe, stock came through in good condition, present condition good, feed enough, wheat doubtful, fruit good except peaches.

Decatur.—December and February fine, January cold, with heavy snow, stock came through in good shape, in good condition now. All, except newcomers, have enough feed. Wheat condition the best we ever had, fruit buds appear all right, farmers are plowing for spring grain.

Dickinson.—Severe winter, stock came through well, present condition thin, healthy, majority of farmers have abundance of hay, straw is scarce, wheat all right, fruit uninjured except peaches, not much farm work done yet, some are plowing for oats....**Abilene.**—Winter mild to January 1, severe from that to February 10, mild since,

stock came through well, in good condition

now, feed enough, wheat nearly all killed, peach buds killed, some plowing done.

Doniphan.—Troy.—Winter cold. Stock came through very well, present condition good, feed plenty, peaches killed, apples all right, no spring work done, farmers hauling off last year's corn....**Highland.**—Winter cold, plenty of snow, six weeks sleighing, sheltered stock came through all right, present condition fair to good, feed generally plenty, winter wheat generally good, peaches killed, apples and cherries in good condition. No spring work done except breaking cornstalks.

Douglas.—Winter cold, stormy and severe. Stock came through in good shape, average condition now, feed plenty and to spare, wheat doubtful, apples O. K., peaches killed, no spring work done yet.

Edwards.—December and February mild, January severe. Stock came through fine except losses in storm of January 12, present condition first-rate, most farmers have enough feed, winter wheat good, fruit buds mostly sound, farmers hauling manure and waiting for the ground to dry out.

Ellis.—December pleasant, January the toughest I ever saw—snow, blizzards and cold, February pleasant. Loss of stock 10 per cent., present condition better than usual—more grain fed. Hay and coarse feed will be scarce, but plenty of grain is fed. Condition of winter wheat splendid. Peaches killed, other fruit buds all right, trees badly broken by snow drifts, some oats sowed on fall plowing.

Graham.—Winter very severe from January 1 to February. Stock came through mostly in bad condition, present condition bad, feed is very scarce, condition of wheat good, no fruit trees in bearing, no spring work done.

Harper.—Anthony.—Up to January 2 mild, January cold, February fine and pleasant, stock where sheltered came through all right, present condition fair to good, feed enough, early-sown wheat good, late-sown poor, apples O. K., peaches one-fourth alive, some plowing done, potatoes planted, gardens made.

Harvey.—December warm, January cold and windy, February changeable, not cold. Stock except hogs in good condition, hogs had cholera, hay and corn abundant, wheat stands thin but looks well, apples, pears and cherries all right, peaches killed, farmers hauling manure, breaking stalks, etc.

Jackson.—December open and mild, January cold—good sleighing, February pleasant. Stock came through all right, except some without sheds perished, early-sown wheat looks well, late-sown doubtful, very little sown, peaches killed, others all right, very little spring work done yet except breaking stalks, spreading manure, etc.

Jefferson.—Winter mild except in January, which was unusually severe. Stock came through in very good condition, farmers have plenty of feed, not much winter wheat sown, condition apparently good, peaches killed, other fruits O. K., no spring work done yet.

Jewell.—Severe cold and stormy in January, otherwise the winter was pleasant as usual. Hogs have not done well since the storms commencing about New Years, all other stock came through well, present condition fully good as usual, farmers have feed enough to last till grass comes and corn enough for another year, wheat all right,

fruit buds all right except in a few exposed localities, no spring work done.

Johnson.—Winter was good, stock came through in fair condition, present condition good, feed plenty and a surplus, peach buds killed, other kinds all right, an unusual amount of fall plowing was done.

Leavenworth.—Very cold through January, rest of the winter mild, stock came through in fine condition, present condition fully up to the average, feed enough with a few exceptions, winter wheat generally good, apples all right, peaches killed, no field work done yet.

Lincoln.—Fine winter till January 1, then hard until February 10, since pleasant. Small per cent. of stock perished, rest came through all right and are now in good condition. Winter wheat thought to be good, not many bearing fruit trees, buds mostly killed. No spring work done, ground full of water.

Lyon.—Americus.—December pleasant, January severe, February mild and pleasant, stock came through mostly very well, mostly in fair condition now, plenty of feed, wheat 75 on a standard of 100, peaches killed, other fruits all right, farmers are plowing for oats.**Wycoff.**—Very cold and stormy throughout January, but pleasant during December and February, stock came through in very good condition, and present condition much better than a year ago, feed enough, hay is very abundant, no damage to wheat yet, apples all right, peaches much injured, great deal of fall plowing done, farmers preparing for spring work.

Marion.—Marion.—Very severe in January, extra care required for stock, that which was well cared for came through all right and is in good condition now, farmers generally have feed enough, wheat good as far as examined, fruit badly injured, farmers preparing for spring work....**Peabody.**—Winter very cold, with twice as much sleighing as we ever had before. Stock, being well fed, generally came through in good shape, in good condition now except hogs, feed plenty, condition of winter wheat very poor—needs rain, peaches destroyed, hope to have some apples and cherries, farmers breaking stalks, hauling manure, etc.

Marshall.—Coldest winter in many years, and lots of snow, stock came through as usual, present condition fair, enough feed, wheat looks splendid, peaches killed, other fruit O. K., no spring work done.

McPherson.—Winter quite severe and stormy, stock came through very well with few exceptions, present condition good except where not enough feed is given, feed plenty, wheat doubtful, supposed to be frozen out, fruit buds all good except peaches, no spring work done, east and west lanes filled with snow on the 20th inst.

Miami.—Winter cold and blustering, 22 deg. below zero, cattle came through fairly well, hogs poor, present condition same, most farmers have enough feed, peaches dead, other fruits fair, farmers preparing to sow oats.

Mitchell.—Winter mild except January, some losses in sheep and hogs, other stock came through all right, present condition good, feed enough, wheat good, fruit good except peaches, no spring work done.

Morris.—Winter coldest since I came to the State—eight years ago, and more snow, no cattle lost, a few hogs frozen, stock in fair condition, fully as good as last year, hay plenty, corn scarce, wheat good, but little of

(Concluded on page 4.)

The Stock Interest.

PUBLIC SALES OF FINE CATTLE.

Dates claimed only for sales advertised in the KANSAS FARMER.
 May 4—Leavenworth County Short-horn Breeders, Leavenworth.
 May 4—W. P. Hignbotham, Short-horns, Manhattan, Kas.
 May 19—Col. W. A. Harris, Cruickshank Short-horns, at Kansas City, Mo.
 May 26—Powells & Bennett, Short-horns, Independence, Mo.
 June 1—Shepherd, Hill & Mathers, Short-horns, Jacksonville, Ill.
 June 4—Johnson County Short-horn Breeders, Olathe, Kas.
 Tuesday and Wednesday of next Kansas City Fat Stock Show, Inter State Breeders' Association, Short-horns.

A HORSE DISEASE.

The following is a copy of Bulletin No. 10, Veterinary Department of the Michigan Agricultural College, treating of a horse, under the head—"A Disease Among Horses the Result of Injudicious Feeding:"

In the spring of the year it is generally a matter of much consideration amongst farmers to have their horses in the best condition possible to do the work necessary at this season, and after a severe winter, which we often have in northern latitudes, many matters in the shape of extra farm work accumulate, which would have, weather permitting, been done before; and there is the spring plowing to be done, which, with a good pair of horses up to their work and in high spirits, becomes a much lighter task for the lover of horse-flesh who tills the soil. We can scarcely wonder then that such a man will feed his horses well, and upon the most nutritious food while they are resting, recruiting as it were, in order that they may be the better able to perform their various duties when the time comes, and thus, through the error of liberality, quite a number of animals are sacrificed, "killed by kindness" every year. Again we find at this season of the year that horses kept for pleasure, or very light work, are often compelled to remain in the stable for several days, owing perhaps to inclement weather, and as such horses are generally pretty liberally fed and in high condition, they are frequently affected with the complaint which I am about to describe; but before doing so perhaps it may be better to settle upon a name for the disorder, and although this may appear to some an easy matter, or maybe one of little importance, yet this very point has given rise to considerable controversy as to the cause, seat and other matters in connection with the disease—for instance, it has been called "congestion of the loins," but I have seen cases where the muscles of the shoulders were affected. In the State of Michigan I have from time to time seen the disease referred to in agricultural papers as "red water," but this is misleading from the fact that in some of the worst cases the water (urine) is not red; besides it differs from a disease of that name in the bovine tribe in several respects, among others the cause. Without, however, commenting at any length upon the name, let me say that the one by which it is generally recognized in this country by veterinarians is azoturia, a name given to it from the fact that the urine has been found to contain an undue proportion of nitrogen during an attack. So adopting this cognomen, let us for a moment turn to the cause of the complaint, which in this case, as in all others, is the first thing to discover before we can hope to combat in an intelligent manner the invasion of the disorder; and in reference to it I may say, without going further, that experience has taught us beyond all reasonable doubt that the disease is caused by feeding horses too liberally upon nutritious food and not giving them any exercise. I may say in this connection that every case of this malady I have met with presented just about the same

history, and may further say that those who have described the disease, did so in a manner which corroborates what I myself have witnessed, so I think if I just briefly outline in familiar terms the history which I invariably get, it may make an impression that will do good in the future, to-wit:

The horse was in good condition and well fed, but owing to certain circumstances had not been out of his stall for a day or two. When brought out he was in the best of spirits, never, perhaps, feeling better in his life; but in a variable time, from a few minutes to, say, a quarter of an hour, after being on the road it would begin to show symptoms of distress, and the change from what would appear to be robust health, to extreme prostration, is very alarming, indeed almost incredible, running its course and destroying life in a day or so; happily, though, this is a malady which, if dealt with judiciously, is often amenable to treatment.

This disease may occur at any season of the year, but in my experience is more prevalent in the early spring than at other times, owing, of course, to the fact that animals are more subjected to the exciting causes at this than at other times.

To be able to recognize the disorder in the early stages is a matter of importance, for the sooner appropriate remedies are administered the better.

THE SYMPTOMS

are usually very well marked, although we will once in a while meet with cases where it is not easy to recognize the disease at first sight; as a rule, though, the horse, after being driven and allowed to stand, will tremble, sometimes violently. The eyes will present a very anxious look; perspiration will run down the face; sometimes the whole body is bedewed with sweat. The animal, at this stage, generally paws with its fore feet and soon lies down, or it will crouch behind and appear as if injured across the back, having much difficulty in manipulating its hind legs when required to walk, when it eventually lies down and in many instances is unable to rise, although it may be able to get up on its fore legs and sit, as it were, like a dog; but this attitude is not often attained more than a few moments, when the poor creature will fall upon its broad-side. At this stage the urine, if voided or drawn away, is usually of a brownish-red color: I have seen it described as being of the appearance of coffee, and, indeed, the comparison is striking. The breathing becomes hurried, the nostrils often being dilated and red within. When the hind quarters are apparently most affected they will have a hard board-like feeling when pressed upon with the hand; the same condition of the muscles will appear on the shoulders when the fore-quarters are affected. The pulse becomes elevated.

TREATMENT.

It has become a very thread-bare expression to say that an "Ounce of prevention is worth a pound of cure," but I know of no disease where this adage can be more appropriately applied than the one under consideration; so it goes without saying, that horses which are well fed should be exercised daily, or else they are liable at any time, after a day or more's rest, to come down with this disease. But when they do, the course of treatment which I have found from time to time to be of much benefit, is in the first place to give an active purgative consisting of about a quart bottle of raw linseed oil; as soon as this is poured over, the affected part should be covered with cloths wrung out of warm water and the whole covered with oilcloth or other close fabric to keep the

neat in. An enema may be given every hour or two until the bowels begin to act. It should be composed of soap and warm water. After about the first twelve hours the hot cloths may be left off, but the body should be kept comfortable and clothed according to the season. In some instances great relief is afforded in an hour or two after the hot cloths have been applied, in which cases they may be discontinued. In those cases in which the animals become very uneasy and knock themselves about considerably I have found great benefit from the use of chloral hydrate, in doses of about four drachms, every two hours or oftener, until several doses have been given or the animal is influenced by the medicine. The urine should be drawn several times a day.

After a day or two it is a good plan to get the horse upon its feet, and a few steps of exercise will often stimulate the blood vessels in the legs, and thus do much good. It is also a good plan to rub the legs thoroughly when it is possible to do so, say three times a day.

I think in cases of this kind the services of a veterinary surgeon should be secured as soon as they can be, for nearly every case differs somewhat in the manifestation of its symptoms, and requires somewhat different treatment, so that the above can only be looked upon as a general outline, but at the same time such a course will have a good effect in ordinary cases—at least that has been my experience.

Still More About Hog Cholera.

Kansas Farmer:

Since I wrote you my last letter on hog cholera, I have been again in the sick-pen taking observations, treating some to cure and one herd for prevention. I have changed some opinions, confirmed others, and made some new discoveries, which I think will be interesting news to the readers of the FARMER.

I have changed my opinions about the disease traveling in the winter time. The cold weather of January did not check the disease in the least, but the cold weather made a division between the two diseases I spoke of last fall. The second disease I find had been discovered several years ago and called hog typhoid in a book by M. Pasteur, which has been handed me by a friend. I find that some French physicians had discovered that cold applications were beneficial in typhoid fever. My observations in January confirms this in respect to hog typhoid. Pigs that were sick would recover as soon as it came a cold spell and none existed during cold weather; consequently I have not been able to try my hand upon it. I have discovered a third disease, which exactly resembles foot-rot in sheep. It looks like it, the odor is the same, it acts the same, and it yields to the same treatment. It is the sloughing sore on some hogs that have been through the fever; also those that may have been rung, cut, or injured in any way. The hog I made this discovery on is a live curiosity, which I now own. When he was given me he was unable to take anything more than a half pint of milk as nourishment; he had a sloughing sore on one side four inches square; he had another large one in his mouth which prevented him from eating. I treated him for fever; he quickly recovered from that. The sores commenced to increase. I then went to work at them. I made no headway until his feet began to come off. I then noticed a resemblance between this and foot-rot in sheep. I made some nitrate of copper and dressed his feet and sores with it; that killed the rot. The sores then commenced to heal. I managed to

save the pig all but his feet. The germs of rot are little dainty fellows; they eat the lean and hide and leave the fat; are heat-producing, flourish to perfection in a manure pile where their heat can be sometimes used for forcing early vegetables; their little yet powerful digestive organs reducing the coarse materials into fine food for plants. Horses sometimes get them on their heels where they eat, leaving the fat. We talk then of greasy-heeled horses. Sheep kept on manure get foot-rot.

I am now pretty well confirmed about the fever germs living upon the hogs' blood. After opening several that had died with fever I was unable to find more than a half pint of blood in hogs that would weigh from 150 pounds to 200 pounds. I invite any of your readers to open some of the hogs that have died with fever and compare the amount of blood with that taken from a healthy hog killed for meat. I was amused and instructed some at a circumstance that happened last fall. I managed after considerable talk to persuade a farmer to allow me to put some of my remedy on the outside of one of his sickest hogs; nothing was to be given inwardly. Next day I went to see the results; I got them from the owner himself. He looked mad at me and said he did not know what in thunder (and other hard words) it was I had put upon his hog, but the like he had never seen before; an hour or two afterwards he went to look at it and it was all covered with flies. I asked about his other hogs if they were not the same. No, sir; the other hogs had no flies upon them; it was my stuff that had done it. The fact of the matter was, I had killed the minute fever germs, and through the small openings in the skin which they had made while living had come the blood upon which the flies were feasting. That hog managed to live through it all; the cholera, my stuff and flies did not kill it.

In the way of treatment for the fever I have again been successful in getting away with it. In one herd of twenty-one that were more or less sick, eighteen recovered; one of the worst ones I took home. This is the one that had his feet come off. He is thriving now; his stumps are healing in good shape. I had to travel fifteen miles before I could obtain another herd for treatment. The herd I obtained was just in the State of Nebraska, one-half mile south of Fric's mill or old Cincinnati, the State line dividing two farms owned by different men, both of whom had cholera in their herds. The one on the Kansas side had a herd of sixty-five head, ranging in weight from 125 pounds to 200 pounds; he had lost one hog, had several sick, but refused to have his hogs treated. The farm on the north side where I got leave to treat had forty-five hogs, ranging from 50 pounds to 200 pounds in weight, sixty-eight fall pigs, from pigs just weaned to 40 pounds; two large ones died, four in their last kicks, half the little ones were sick, none dead. Here between these two farms was an opportunity for a test to see whether anything could be done with hog cholera or not, with the disadvantages against me of having so many small pigs to treat in cold weather. I started in. After five weeks the results are as follows: Of the small pigs 50 per cent. recovered; of the hogs ranging from 50 pounds to 200 pounds 75 per cent. recovered; all are in a thriving condition. The herd on the Kansas side, forty-five died out of sixty-five, the remaining twenty the owner, to prevent further losses on his hands, sold at \$2 per head, it being 1½ cents per pound.

Of the possibility of prevention I

(Continued from page 1.)

it sowed, don't know about fruit, some fall plowing done, good deal of tame grass seed will be sowed soon.

Neosho.—Cold and stormy through January, stock wintered well, present condition good, no losses, feed plenty, wheat looks to be killed, good deal of plowing done.

Norton.—Winter cold with much snow and wind, stock came through very well, present condition good, most of the farmers have feed enough, can't say about fruit, only few trees here, no spring work done.

Osborne.—Osborne.—Winter mild except January, considerable loss of stock, at present most of the stock is in good condition, feed enough in nine cases out of ten, wheat very good, uncertain about fruit....
Downs.—January cold, worst storms on record, stock came through in good shape generally, present condition generally good—better than most years, feed plenty, wheat believed to be all right, peaches killed, plowing has commenced, snow banks about all gone.

Ottawa.—Delphos.—Severest winter in twenty years, some losses in stock, present condition excellent, feed plenty and to spare, wheat good now, the only spring work done yet is head work....
Minneapolis.—Winter mild except January, which was very severe, stock came through well, present condition good, feed enough, wheat believed to be all right yet, peaches gone, other fruit O. K., farmers breaking stalks.

Pawnee.—Winter cold and severe after Christmas, all stock that had feed and protection came through fine, present condition mostly good, most of the farmers have plenty of feed and to spare, wheat in fine condition, fruit buds mostly good, plowing done in December.

Phillips.—Winter cold and steady, more snow than I ever saw since county first settled, stock are looking well, some complaint about abortion in cows, feed is plenty, condition of wheat good except on bare places, fruit good except peaches, ground in good condition, but little spring work done yet.

Reno.—Arlington.—December mild, January very cold, with wind, more snow than usual, loss of stock light—not more than 1 per cent., present condition not as good as it was in the fall, some are buying feed but there is enough among the farmers for sale to supply all, sod wheat good, on old ground badly frozen, don't know about fruit, farmers husking corn....
Hutchinson.—Most severe winter since settlement of county, stock that was well cared for came through all right, present condition fair, probably feed enough, wheat generally good, peaches mostly killed.

Republic.—December mild, January and until February 10 very cold with heavy snows, sheltered stock came through well, some losses among unprotected animals, heavy losses among hogs from cholera, present condition of stock good except hogs, abundance of feed, wheat excellent, peaches killed.

Rice.—January severe, lowest temperature 24 deg. below zero, February mild, snow nearly all gone, considerable loss of hogs by smothering and by cholera, stock well cared for is in good condition, wheat looks well—never better, peaches killed, rest O. K., feed is abundant.

Rooks.—Winter mild except January, much stock lost in January storms, remainder in good condition, feed enough if we have no severe storms, winter wheat very good, can't tell about fruit, farmers getting ready for spring work.

Russell.—Winter very severe after January 1 to February 8, about 2 per cent. of stock died from effects of storms, present condition of stock fair, feed enough, drilled wheat very good, broadcast poor, peaches killed, other fruit all right, a good deal of spring wheat and oats have been put in.

Saline.—Winter very cold and stormy with an unusual fall of snow, small per cent. of loss in stock from exposure, generally in good condition now, majority of farmers have plenty of feed, wheat injured, too soon to tell how much, peaches killed.

Shawnee.—December and February mild, January very cold, with a good deal of snow, the only stock losses were among hogs from cholera, present condition good, feed enough, peaches killed, too soon to decide about wheat, spring work begun, some oats sown.

Summer.—Wellington.—The most severe winter I have experienced during a resi-

dence of fourteen years, stock came through all right except those frozen to death, present condition better than a year ago, feed plenty, wheat very good, peaches and Early Richmond cherries killed, great deal of fall plowing done....
Belle Plaine.—January very cold, nine inches snow, stock came through well where cared for, present condition 90 per cent. good, most farmers have plenty of feed, 10 per cent. are short, winter wheat good—that in stalks the best, peaches all killed, blackberries and cherries badly hurt, some fall plowing done.

Trego.—Winter very pleasant to January, cold, stormy and changeable since, heavy losses especially among range cattle, present condition poor and weak except where grain fed, feed not generally enough, rough feed scarce and held at high prices, wheat 25 per cent. winter-killed, fruit buds killed, too wet to plow old land, too early to break raw land.

Wabawnee.—December pleasant, January and first half of February stormy and unusually cold, stock very much reduced in flesh, healthy now but thinner than usual, feed plenty and to spare, peaches injured, wheat mostly good, injured in some places by freezing.

Washington.—Winter unusually severe, but sheltered stock came through in good condition, at present free from diseases, feed enough, wheat quite promising, peaches all killed, no spring work done, two-thirds of corn crop of '85 yet in cribs.

Wilson.—Severe winter, stock came through in good condition and are now better than usual at this time of year, plenty of feed and to spare, wheat fair, but little winter-killed, no peaches, spring work commenced, oats sown on the 18th inst., more fall and winter plowing than ever before.

Woodson.—Winter cold, no rain, but much snow, no losses among stock except chickens, condition of stock generally good, plenty of hay but not much grain, wheat good, peaches injured, a great deal of fall plowing and tree planting done.

Wyandotte.—January unusually cold, stock generally sheltered, no losses by freezing, present condition good, very few hogs survived cholera, hay and corn to spare, wheat all right yet, peaches gone up, more fall plowing done than ever before.

A Good Record.

In the seed catalogue of J. H. Gregory, of Marblehead, Mass., page 10, is found the following extract from a letter of D. S. Lyon, Sollsville, N. Y.: "This makes twenty-one years we have used your seed and always to our complete satisfaction." In our advertising columns Mr. Gregory offers to send his catalogue of such seed as this, free to all mankind.

Mexico is said to possess only about 100 factories of all kinds, owing to the paucity of water and the high cost of fuel. These factories employ about 13,000 hands, and those devoted to weaving contain 9,500 looms and 250,000 spindles. The largest cotton mill is at Queretaro, employs 1,400 hands, and manufactures the unbleached cloth worn by all Indians.

Burpee's New Vegetables.

The new improved varieties of vegetables advertised in this paper by W. Atlee Burpee & Co., the Philadelphia seedmen, are well worthy the attention of all who take delight in a fine garden. Messrs. Burpee & Co. guarantee these new seeds to fully sustain the descriptions given, and the marked success attending all varieties introduced by them is ample assurance that entire confidence may be placed in their representations. Their large advertisement will repay a careful reading.

A lunatic who escaped from the hospital for the insane at Buffalo two years ago, and has since been wandering over France and Great Britain, returned to his home the other day, perfectly cured, it is reported.

We take pleasure in calling the attention of our readers to the card of Mr. Mark S. Salisbury in the Poultry Breeders' column, which begins its fifth consecutive year with this issue of the FARMER.

The English language consists of about 38,000 words, yet when a man is pulling on a tight boot or waiting for his wife to dress, he nearly always invents a few extra words to express his feelings.

Gossip About Stock.

Franklin county now has a Short-horn association, recently organized at Ottawa, Kas. Breeders everywhere should organize.

The annual meeting of the Holstein-Friesian association of America will be held at the Genesee Hotel, Buffalo, N. Y., Wednesday, March 17.

The Howard *Courant* tells in its last issue of a thirteen-month-old shoat which weighed 545 pounds and boasts that the record cannot be beaten. Next.

The Leavenworth county Short-horn Breeders' association have decided not to hold a public sale this spring, and have accordingly withdrawn their dates.

Walter Morgan & Son, Irving, Marshall county, Kas., will hold a public sale of Hereford cattle, March 26, further particulars given in advertising columns later.

A Horseman's Association has been formed at Eldorado, Butler county, Kas., for the purpose of buying grounds and erecting buildings for the purpose of holding annual fairs for speed horses.

It is a pleasure to chronicle the fact that the new breeds of cattle are gaining a foothold in Kansas. Our friend, J. S. Goodrich, of Goodrich, Linn county, this week advertises a public sale of 70 Galloway cattle, to take place March 11.

Col. W. A. Harris, of Linwood, Kas., and Prof. E. M. Shelton, of the Kansas State Agricultural College, have been off to Canada to secure more of those inimitable Cruickshank Short-horns.

The past winter weather has not been as hard on the cattle of Southern Kansas as at first supposed. Drum & Snyder have upon their range 12,000 head of cattle—all steers—and after carefully riding over their territory found only six dead.

The Cherokee Strip Live-Stock association will hold their spring meeting at Caldwell, Kans., on Tuesday, March 23d, instead of the 16th, as heretofore announced, thus giving those concerned in the matter a better opportunity to see what kind of a spring there will be and the prospect for early grazing.

W. D. Warren & Co., received on February 27, from quarantine at Garfield, N. J., in connection with Offord & Sexton's English Shire horses, eighteen head of thoroughbred Red Polled cattle, consisting of eight young bulls and ten young heifers; the herd now numbers 40 head, the largest herd of this breed west of the Mississippi, probably the largest in the United States.

As will be seen by the advertisement in another column, there will be an important auction sale of 200 head of high-grade Short-horn cows, having five or more thoroughbred crosses, making them practically thoroughbreds. They are equal in beef qualities, to many of the thoroughbred herds, and just what western ranchmen need to raise their own bulls from. The St. Mary's College herd is an old one and generally well known to most western stockmen. Write Brother Patrick Kehoe at St. Mary's Kan., for fuller information, if desired.

Hundreds of stallions are now annually being imported from France to the United States. The immense wealth they are adding to the nation will be better understood from the estimate that the first cross of a Percheron stallion with a native mare doubles the selling value of the colt when mature. The accomplishment of these grand results are greatly due to the energy of one man, to whom the American people are greatly indebted, he having imported and distributed to almost every State and Territory, nearly 2,000 Percheron horses. A visit to Mr. M. W. Dunham's "Oaklawn Farm," at Wayne, Illinois, will give new ideas of the magnitude of the horse improvement of the country.

Kansas City to Decatur, Ill., Without Change of Cars.

Via Wabash, St. Louis & Pacific railway. We are now running a through coach from Kansas City to Decatur, Ill., leaving Kansas City at 7:35 p. m., via Moberly, Hannibal, Jacksonville, Springfield, etc. This coach is attached to our regular through Toledo train at Hannibal, and passengers for points east of Decatur can make the change on the train at any time before reaching Decatur. This practically gives us a through train

from Kansas City to Decatur, Danville, Peru, Ft. Wayne, Toledo and Detroit. Give us the business. H. N. GARLAND, C. W. GREEN, Western Passenger Ag't. Traveling Passenger Ag't.

Butler County Items.

Kansas Farmer:

Butler, one of the best farming and grazing counties in the State, is situated rather in the southeastern portion, and is populated with a thrifty, energetic and well-educated class of farmers. Much the largest portion of the land is of the best quality for farming, being excellent soil and slightly undulating. The rest is productive of excellent grass for grazing and is well watered. Of course, we have some poor land, and we think, or rather know, our friend Henry Butler was so unfortunate as to settle in that portion of our county east of Douglass known as the "Flint Hills." But, friend Butler, you should not judge all portions of the county by the portion you live in. In our vicinity we know of but very few farmers who have had to buy their corn, and they usually get all they want of their neighbors. And we do not know of a single instance in which any went to Douglass after corn and returned without it. In traveling over this portion of the county you will, with scarcely an exception, find the farmers have wintered through their stock much better than expected, notwithstanding this has been the most severe winter ever witnessed in Butler county, with about as much feed now on hand as usual this time of the year. Besides, they are very hopeful as to coming crops and future prospects, universally saying the outlook for the future was never as bright before in this county.

Our friend further speaks of the exorbitant rates of interest charged by our money-lenders. Now, friend Butler, you certainly know your statement concerning rates of interest is not true, as men here can get all the money they want for 10 per cent. and sometimes less. At least we will ask you to come over and we will see if we cannot help you out a little. It is true here, as in all Western States, and no worse than in Nebraska and Iowa, that most of our farms are more or less encumbered. But, upon investigation, will find they have used the money obtained in improving their farms in various ways, thus increasing the value of their property and the country in general, making their home more attractive and enjoyable. Who ever witnessed a State, or, in fact, any section of country, so improved in population, wealth and class of citizens as our noble Kansas? Before you can realize it the broad rolling prairies are checkered over with hedges and dotted by fine houses and barns.

Just look back seven years ago, brother Butler, and there was scarcely a two-story house to be found any place, and to-day you can stand most any place and count from ten to fifteen. No, brother Butler, let us, instead of finding fault with our noble State, rather rejoice at the rapid rate it is advancing, soon to catch up and outstrip her older sisters in wealth, class of citizens and influence. Just give us two good crops, with a continuation of the management displayed by our farmers the past two years, and we will see a greater part of our farmers out of debt.

The wheat in this section of the country never looked better than at present. The prospect for fruit is good with perhaps the exception of peaches, some reporting them entirely killed, others say they are all right yet. Farmers here will be sowing their oats by the time this appears in print, if the weather continues as it now is. Some are already planting, and the acreage this year will be very large. VOTAW.

Mr. Hanna, Stand Up, Please.

Kansas Farmer:

I want to ask Mr. Hanna, through the KANSAS FARMER, what premiums Black Rosa Corwin, No. 3217, has taken. In what counties, and at what fairs? I would like for him to inform the subscribers of this fact, for I never knew Black Rosa Corwin to take a prize. Mr. Hanna, please answer, and oblige. A SUBSCRIBER.

For cuts from barbed wire fence, sore shoulders, ticks and open sores on animals, use Stewart's Healing Powder, 15 and 50 cts. a box.

More than half of last year's cotton crop in the South was raised by white labor.

The Home Circle.

it sowed,
plowing do

Maternity.

will be sown two dainty little feet
Cradled in my warm and loving hand;
So soft and pink, they sure must be
Two rose-leaves blown from fairyland.

I hold a wee and helpless form
Pressed closely to my happy heart—
Why, baby!—mine of right divine—
The right of pain—a mother's part.

O beauteous life! so fair and new,
That yesterday was blent with mine!
O wondrous soul! so lately sprung
A sparklet from the Source Divine!

God's priceless gift, you come to me
Embodied in this little form;
My soul accepts its happiness
As flowers the sunshine soft and warm.

My brow seems decked by coronet,
The fairest earth has ever seen—
The diadem of motherhood—
'Tis nature's hand that crowns me queen.

What realms are opened to my sight!
I tread the regions of the blest;
And all because this little form
Lies fair and helpless on my breast.

A tiny bud, whose flower complete
May bloom to bless my waning years;
O motherhood! you hold a bliss
That best may be expressed in tears.
—Carrie Stevens Waller.

About Rugs.

If Martha Foster had told what material she wished to use in her rug, her question could have been answered more readily. One pattern easily made is: Make the foundation the size you wish the rug to be; any material will do if it is strong. Take pieces of any old carpet (except rag carpet), cut in bias strips one and one-half inch wide, fold in the middle and sew to the foundation, leaving the two edges up. Sew another strip one-half or three-fourths of an inch from the first, according to the thickness of your carpet, until the foundation is covered. A darning needle, common wrapping cotton, and stitches half inch long are sufficient. With a knitting needle or crochet hook, ravel out the edge half way or more towards the foundation. Clip all irregular edges, and you will be surprised and pleased to see how nice a rug can be made of such unpromising material. Line the under side and bind the edges to suit.

If a person has old clothes of men's heavy wear, remnants of bright-colored yarn, and plenty of time combined with artistic taste, a beautiful rug can be made as follows: Cut an oblong and diamond pattern three inches wide by four long; cut your cloth the shape of one-half the pattern; work any fancy stitch you like on the two sides of the diamond and the rounding side of the other. You can use all of one kind of cloth—if the colors of yarn are bright, or different kinds of cloth to suit the taste. One or both the patterns can be used on the same rug. You can sew the pieces onto the foundation in any pattern or figure you like, the points overlapping the sides that are not worked. Line the under side and bind as in the first-described pattern.
AUNT POLLY.
Hermit Hill.

Rug Patterns.

Martha Foster, in KANSAS FARMER, asks for some of the lady readers to send patterns for making rugs. As I have been making some real pretty ones this winter, I will take pleasure in giving her the directions.

I take scraps of yarn that have been left from knitting mittens, stockings and other necessities. If I have enough new yarn, I knit it all of new; if not, I take old stocking tops that have good yarn in them and ravel them out and take the best of it. When I have three or four different colors, I crochet them in stripes. I begin as I would for a lamp mat, putting in as many bright colors as will make the prettiest effect; if I have scraps of different colors, I tie them together and make a hit-and-miss stripe. When they are as large as I wish them, I finish with a row of scallops around the edge.

Another one I have is of crazy patchwork; the pieces are all heavy cloth and worked with yarn the same as in crazy quilts.

Another very pretty way is to cut a lining the size you wish your rug (oval shape is prettiest); then, using heavy cloth (it may be all the same color or two or three different colors), cut it in deep vandykes, each vandyke about as wide as your hand, work

round the edges with bright-colored yarn in button-hole stitch; begin sewing them onto the lining at the out edge. If you use two different colors, begin with a dark row, then a light row, until you come to the center; then take a piece of dark and work your initials on it and put on to finish. These are all pretty.
ALICE.
Bronson, Kas., Feb. 20.

Poisons and Their Antidotes.

The following excellent table of poisons and their antidotes is taken from the *Western Druggist*, Vol. VII, No. 11. The convenience for quick reference is perhaps somewhat facilitated in the slightly different arrangement of the paragraphs as here presented.

GROUP 1.—Carbolic acid, muriatic acid, nitric acid, sulphuric acid, cobalt, creosote, nitro-muriatic acid, iodine and its preparations, croton oil, oil of pennyroyal, savin, tansy and rue, phosphorus, and tin and its compounds.

Antidotes.—Give white of eggs, or flour mixed with water; then cause vomiting by giving a teaspoonful of ground mustard and abundant draughts of warm water; give strong soapsuds, chalk or soda with milk, demulcent drinks of flaxseed or slippery elm.

GROUP 2.—Chromic acid and its soluble salts, antimony and its compounds, cantharides, copper and its compounds, elphinia, elaterium, mercury and its compounds, zinc and its compounds.

Antidotes.—Give white of eggs, or flour mixed with water; then cause vomiting by giving a teaspoonful of ground mustard and abundant draughts of warm water; give tea or strong coffee, soda with milk, demulcent drinks of flaxseed or slippery elm.

GROUP 3.—Caustic ammonia, caustic potassa and caustic soda.

Antidotes.—Give vinegar, oil and milk.
GROUP 4.—Prussic acid and its compounds, oil of bitter almonds (also water of), chloral hydrate and chloroform.

Antidotes.—Apply cold effusions to the head; give stimulants; apply mustard poultice to the stomach, wash with spirits of camphor or vinegar; arouse the patient; give plenty of fresh air; artificial respiration.

GROUP 5.—Cotton root and its preparations, ether and compound spirits of ether, sulphurets of the alkalis.

Antidotes.—Cause vomiting by giving a teaspoonful of ground mustard and abundant draughts of warm water; apply cold effusions; wash with spirits of camphor; arouse the patient; give plenty of fresh air; artificial respiration.

GROUP 6.—All preparations of the following: cocculus indicus, colchicum, calabar bean, cannabis indica, gelsemium, hemlock, opium and its preparations, and santomine.

Antidotes.—Cause vomiting by giving a teaspoonful of ground mustard and abundant draughts of warm water; give strong cold tea or coffee; apply cold effusions; keep the patient in constant motion; give demulcent drinks of flax seed or slippery elm.

GROUP 7.—All preparations of the following: acetonie, belladonna, digitalis, ergot, hyoseyamus, lobelia, nux vomica, nicotine, stramonium, veratrum viride, veratrum album (white hellebore), and veratrine.

Antidotes.—Cause vomiting by giving a teaspoonful of ground mustard and abundant draughts of warm water; give strong cold tea or coffee and powdered charcoal; give stimulant and demulcent drinks; apply warmth to the extremities; the recumbent position should be maintained.

GROUP 8.—Baryta and its compounds, and all the compounds and preparations of lead.

Antidotes.—Give Epsom salts freely, dissolved in water; then cause vomiting by giving a teaspoonful of ground mustard and abundant draughts of warm water; give milk or demulcent drinks.

GROUP 9.—Arsenic, its preparations and compounds.

Antidotes.—Cause vomiting by giving a teaspoonful of ground mustard and abundant draughts of warm water; then give hydrated oxide of iron, dialyzed iron or magnesia in abundance, followed by oil, milk or mucilaginous drinks.

GROUP 10.—Oxalic acid and salts.

Antidotes.—Give chalk, lime, whitewash from the wall, or powdered wall-plaster with water, or lime water. Give one ounce castor oil.

GROUP 11.—Silver nitrate.

Antidotes.—Give solution of common salt; then cause vomiting by giving a teaspoonful of ground mustard and abundant draughts of warm water; give white of eggs, or flour mixed with water.—W. A. K., in *Industrialist*.

Jewelry of the Present Day.

The foreign manufacturers can not compete with the Americans in a good many departments of the jewelry trade where hand-made work has been replaced here by deftly-made machinery. In watch chains the Americans are now ahead of any country; they get the same effects in a watch chain as in a hand-made chain abroad, and the labor on an old-fashioned watch chain amounted to a good deal more than the metal used. Consequently one can now estimate the standard value of his chain or other jewelry of gold better than he could when he paid three-fifths for the labor and two-fifths for the metal.

Jewelry in the United States is worn by the multitude, and abroad only by the few; consequently we make jewelry of thin beatings of gold with full reference to the display and design, and any one who can look back thirty years will readily see how more versatile and thorough are the jewelry designs of the present day. Indeed, jewelry has been made so cheap by the American manufacturers that there is but little reliance to be placed on ornaments as a badge of solvency and distinction. The designs of the present day are aimed at the populace and not much at the select.

The influence of chemistry on silverware is also very noticeable. Plate which was once the possession of princes has become the familiar friend of the million. The poor man's baby can have a very pretty silver cup or semi-silver cup. Excessively expensive jewelry is a great burden to some people; it has to be stored away in fire-proof places or insured, and does not often look better than plated ware, which gives the owner no concern about thieves and plunderers.—George Alfred Townsend.

Care of the Hands.

If the hands are stained, use a handful of clean sand in the water, rubbing it on the stains. This sand can be rinsed off and kept in a dish for daily use. Oxalic acid will take off stains, but it is a rank poison, and dangerous to have about; it also makes the hands exceedingly harsh. They must be washed thoroughly in tepid water to insure its entire removal, then rubbed with glycerine. The use of too much glycerine makes the hands moist and cold or clammy, and very disagreeable to the touch. Never hold the hands near the fire, while rubbing with glycerine, as it dries in places before penetrating, leaving the hands harsh.

Many housekeepers have rough hands in winter, which grow very painful, cracking open on the knuckles, the cracks extending into the palms of the hands. They take their hands out of hot soapsuds, or starch, to hang clothes in the wind. If they did not use hot water, and the hands were thoroughly dried before going out, this would be avoided. A pair of white woolen stockings, cut off rounding at the ankle and sewed across, with a thumb sewed in, make a very comfortable pair of mittens for hanging up and taking off clothes. Pin them fast to the sleeves with large safety pins, before going out, having first stretched the arm upward, then they will not come loose and the wrists will be protected. After bringing in the clothes, if the mittens are put in the clothespin bag they will be kept clean and in the right place.

Hands are injured in very cold weather by lack of protection at the wrists, as large veins and arteries are exposed. The blood is chilled in passing into the hands. Every one cannot have handsome, white and shapely hands, but every one can have clean and comfortable hands.—Pauline Adelaide Hardy, in *Good Housekeeping*.

The wonderful stories told of grain which had been made to grow after having lain dormant for thousands of years in the hands of mummies, do not seem to have any foundation in fact. Mr. H. K. Parks states in the *Journal of Science* that he has investigated all the cases he can find, and shows that there is not a single authenticated instance of corn found in a mummy having been grown. Some of the seeds found in mummies have germinated, but as they produced plants—oats, for instance, not known to the Arabs of 3,000 years ago, it seems evident that they were systematically put in the hands of the mummies by the avaricious Arabs of modern days.

A Berlin woman lately attempted to kill herself by drinking five ounces of kerosene. She became unconscious, but was fully restored to health in three or four days. The *Deutsche Wochenschrift* tells of a man who drank habitually an ordinary liquor glass of petroleum several times weekly without any disagreeable consequence.



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Send the KANSAS FARMER to your Eastern friends from now until January, 1887. The cost to you of \$1 will pay for postage and white paper. We will donate the rest.

Make a good investment by sending us \$1 and secure the KANSAS FARMER from now until January, 1887. Ten cents a month will pay for a 16-page weekly, the most progressive and practical farm paper in the West.

Hard Pan Offer.

In response to urgent requests on account of the recent hard winter we will accommodate our friends by sending the KANSAS FARMER from date until January, 1887, for only One Dollar.

We are glad to see our excellent contemporary, the *Indicator*, at Kansas City, picking up crop items, as it promises to do this week. The *Indicator* is bound to keep up with the procession in which the KANSAS FARMER leads. Look at our crop reports, old boy.

Pamphlet copies of all the laws passed at the late special session, which laws took effect on and after publication in the official State paper, can be obtained of G. W. Crane, Topeka, at 50 cents apiece. The total number of laws contained in the collection is over 150.

We have received a copy of "Proceedings of the National Swine Breeders' Association held in Chicago, Ills., November 11th, 1885, together with the proceedings of the National Swine Breeders' meetings of 1883 and 1884." Several important papers are contained in the report. It is published by the Association.

Mr. Wm. C. Campbell, of Mitchell county, writes us that of his flock of two thousand Merino sheep he has not lost one by reason of the cold weather in January. Lambs are coming every day now; he expects about a thousand of them. He has also about one hundred head of cattle; lost none; has plenty of feed, and fears nothing from want of shelter.

LOOK HER!

This copy of the KANSAS FARMER will fall into the hands of a great many new readers. If the paper pleases you send us One Dollar and receive the paper until January, 1887. This offer will be appreciated by those who failed to join a club as well as those whose subscription expires this

The Business Situation.

There is not much to report in the business world. The cold weather and the storms of January had a depressing effect on trade generally because travel and transportation were very much impeded. February weather was much better and commerce felt the impulse of the sunshine. There is a very general feeling of security taking the place of the nervousness exhibited on account of the excitement about silver. It is evident to everybody that the people will not tolerate anything like discrediting silver money, and the scared persons are beginning to wonder what it was all about.

There is a determination on the part of some Congressmen to tinker at the tariff laws again, and if there were any probability of their efforts succeeding, that would cause a great deal of uneasiness; but it is evident that no considerable work of that kind will be permitted to go into finished legislation. The President is in favor of protective duties, and so is a considerable part of his party friends. They are ready for some reduction of duties, but there is so much difficulty in agreeing upon what particular articles shall be affected, that there is no probability of any tariff legislation at all unless it be the putting of lumber and a few other articles on the free list—something that ought to have been done long ago.

The dry goods market is improving. Old stocks are closed out and the spring opens with fresh goods in every department.

Iron is firm, with a steady demand of increasing volume.

Grain, flour and provision exports are more lively with a better look ahead. Prices of wheat are going up.

Wool is in better demand, with evident signs of improvement in prices.

Fat stock meets with ready sale in all the markets at fair prices as compared with those of the last six to eight months.

As to labor enterprises it may be said that there is considerable preparation for new work as soon as the weather opens for it. In Kansas the prospect for railroad building is better than it was at any former time.

The condition of wheat in the ground is generally reported good in all the wheat-growing States.

All in all, the outlook is good, and particularly for the people of Kansas.

New York Canals.

Mr. O. B. Potter, of New York, recently delivered an argument before a committee of the Legislature in opposition to a scheme of appropriating money out of the national treasury for the improvement of the New York canals. It has been found necessary to modify the canal laws of that State in the interest of trade. All tolls were abolished and the canals made free to traffic. Still, the business has decreased regularly year by year during the last ten or twelve years. It is now believed necessary in the interest of trade to enlarge and otherwise improve the canals, and a proposition is pending to ask the general government to furnish the means. To this Mr. Potter objects, and we think he is right. A canal is not a navigable river, nor is it subject to the same laws. A river large enough and deep enough to carry large craft, belongs to the people from low water mark on one side to the same mark on the other. Riparian owners—those whose lands lie along the river—can claim ownership to the line of low water mark only. The stream belongs to the people at large and is subject to laws of Congress. A canal is made as a railroad is made. The land is condemned under State laws. The

canal is subject to State laws, and when it ceases to be used as a canal, the ground it occupies reverts to the original owners the same as a railroad right of way reverts.

If the people of New York want the people of the United States to pay expenses of improving their canals, they ought to cede jurisdiction to the general government. That would make the canal a national thoroughfare the same as a river. But if New York wishes to retain ownership and control of the canals, let New York keep up repairs.

The Lister for Corn-Planting.

Opinions vary as to whether the lister is worth saving as an aid in planting corn. At the Pleasanton Farmers' Institute, the opinion was against the lister. Brown county farmers speak well of it. Mr. Mellenbruch, of that county, in a paper on corn-raising before the Hiawatha Farmers' Institute, spoke of the lister as an implement in common use and approved, and there was no objection reported. His address was published last week in FARMER. He has several times, in communications to this paper, recommended the use of the lister under favorable circumstances.

We have just been reading a letter written by a Jewell county farmer—P. R. Hoffer, on the subject. He says he opposed the lister for several years, while his neighbors who used it were raising more corn to the acre than he did. Last year he tried it himself, and now comes out in the Jewell county *Republican* and gives the facts and figures that convinced him. He says he plowed ground for check-rower from April 9th to May 1st. Planted one-half April 24th and remainder May 1st. Did not get a good stand on account of numerous heavy cold rains, covering many hills too deep to break through the crust formed on top. The planting of May 1st yielded five bushels more per acre than that planted April 24th. The average yield was forty bushels sound corn and five bushels mouldy per acre. The mouldy paid for gathering the same. Listed May 9th to 11th, which no doubt was a better time to plant than April 24th or May 1st. Got a good stand on about nine-tenths of piece, the rest was entirely drowned out by heavy rains. The average yield was fifty bushels sound corn and one bushel mouldy per acre. The cost per acre of each kind is as follows: One acre check-rowed; ground rent \$1.50, cutting stalks 40 cents, plowing \$1.25, planting 25 cents, seed 5 cents, twice harrowing at 20 cents equals 40 cents, four cultivations at 40 cents equals \$1.60, cutting weeds 7 cents, husking and cribbing forty bushels at 3 cents equals \$1.20. Total cost per acre \$6.72 or 16.7 cents per bushel. One acre listed; ground rent \$1.50, cutting stalks 40 cents, planting 60 cents, seed 5 cents, one harrowing 20 cents, three cultivations at 40 cents equals \$1.20, cutting weeds 15 cents, husking and cribbing fifty bushels at 3 cents equals \$1.50. Total cost per acre \$5.60 or 11.2 cents per bushel. Lister ahead 5½ cents per bushel.

Weather This Month.

Prof. Blake says that March will be a warm and wet month, generally, and there will be heavy frosts in April. As to Kansas, he says: "I think the greater portion of Kansas will not have an excess of rain during March, and farmers here will have a fair opportunity to get their seeding and plowing done early, and it should be done as early as possible to avoid danger later in the season."

Good Stock on Sale.

We wish to call attention particularly to a stock sale which we are advertising—that of A. H. Lackey & Son, of Elmwood Stock Farm, near Peabody, this State. The Messrs. Lackey are experienced men; they deal in good stock and sell under open and frank conditions. The sale is advertised for March 9th. They offer seven Cruickshanks, eight Rose of Sharons, some Craggs, a number of young Mary's. They will also sell some of their fine milking Adelaides. They say to us, and we believe them, that they "never offered so grand a lot of cattle" as they offer this spring. We regard this as a very important sale, and hence have departed from our rule in regard to editorial mention of sales. It will be the first sale of the season in the State; the animals offered are exceptionally good, and enough will be sold to justify a large attendance. It will be a very good opportunity for purchasers, and we do not want a single one of our readers to miss it. Look up the advertisement, and if you want either to buy or simply to see good stock, attend the sale.

Notes From Our Special Correspondent.

A great many farmers of southern Kansas have already completed sowing their oats and are now devoting attention toward getting ready for corn-planting, etc.

The Sumner County Agricultural and Mechanical Association will give their sixth annual exhibition September 7, 8, 9 and 10, 1886. D. A. Espy, Secretary, Wellington, Kas.

The Parsons Fair and Driving Park Association will hold their fifth annual meeting at Parsons, Kansas, September 28, 29, 30, 31, and October 1, 1886. J. R. Brown, Secretary.

The tide of immigration is beginning to wend its way into our great commonwealth at a decided rapid rate, and ere ninety days will have rolled by Kansas will witness a wonderful advancement in point of wealth and population.

The wheat prospect in Kansas, along the Southern Kansas Railroad and territory tributary thereto, is very flattering for a good growth, and should everything prove favorable will no doubt result in an average yield of choice wheat at harvest time.

The Mariana Plum.

The proprietors of the Stark Nurseries, Louisiana, Mo., write us as follows, under date of Feb. 20th inst:

"The article on the Mariana plum in the FARMER of February 10th, while correct as to the valuable characteristics of this new plum—indeed in this regard much more might be truthfully said,—is apt to mislead as it conveys a wrong impression, viz., that genuine Mariana trees can be obtained only of State agents. We are not State agents, nor are our trees of the Mariana subject to the trademark, having been propagated entirely from scions purchased in due course of business and without restrictions, from the introducer, Mr. Eley, in January 1883. Having great faith in the future of this excellent plum, we have propagated a very large stock, larger perhaps than all other existing stocks combined, and have advertised it somewhat extensively throughout the United States and Canada. Purchasers from us or our authorized agents, or from the Hart Pioneer Nurseries, whom we have contracted to supply for fall trade, are guaranteed Mariana trees of first-class grade and undoubted purity."

The project of drying up the huge Zuyder Zee is being urged in Holland.

The Sabetha Institute.

Special correspondence KANSAS FARMER.

The farmers and stock raisers of Nemaha county met at Sabetha on the 23d ult. in their second annual institute. The programme contained a good list of topics, which were discussed with intelligence, showing the members to be observing, thoughtful, and experienced men, just such as can give information of real value to the inquirer.

The hog received due attention, and the perplexing question of his diseases was discussed at some length, but it is scarcely necessary to add that it was relieved of its perplexities to no great degree.

The subject of sheep husbandry was, in the opinion of nearly all present, an industry unsuited for this region.

A most interesting discussion on corn and its culture was a prominent feature of the meeting. The plan of listing has become almost universal of late years, but the manner of preparing the ground and cultivating the crop has been modified to a great extent. The old method of cultivating with the common cultivator has been found unsatisfactory and many other methods have been applied. Among the late improvements in machinery for cultivating corn is one devised by Mr. N. Coleman, the President of the Institute. He exhibited one of these cultivators in the course of this discussion and explained its operation. It was commended by several experienced farmers who have seen it in operation.

Prof. Cummick made a very interesting address on Tuesday evening on "Obedience to Law." This was followed by a symposium on "What We Have Learned the Past Year." The remainder of the evening was spent in a social way, several of the wide-awake farmers of Brown county were in attendance and were introduced and made welcome.

Wednesday morning was an unpropitious one, but at the hour appointed a large number were in their seats. The subject of "Horticulture and Orchard-ing" was discussed. This was handled by Messrs. Magers, Robertson and Rawson in a very instructive manner.

"Meadows and Pastures" provoked a lively discussion. The enthusiasm and interest manifested that in the minds of the farmers there is no more important subject. The experience of a member with different kinds of pasture grass was given, and this discussion will no doubt lead many who have given the question little consideration, to wake up to its importance.

"How to Make Beef in Kansas" was the subject of an address of Mr. J. M. Boomer, whose long experience in the business makes him good authority on the subject.

Colonel White offered some wise suggestions on the "Improvement of Stock."

Another good topic was "Milk and Butter Producing." Mr. Inman led in this and gave many hints and suggestions that cannot fail to be of value, if heeded.

The most perfect horse to raise, his care and management, was deeply interesting.

Mr. C. H. Isley read an essay, "Our Hired Help." The paper exhibited that the writer had studied the subject from a different standpoint from most men. He advocated a more liberal, humane, and Christian treatment of "help" and suggested the ways in which his ideas might be brought into practice.

"The laying out of farms and beautifying houses" was a theme on which Mr. Elliott was at home.

A resolution declaring in favor of sending men to the Legislature that will represent the interests of the

farmers was passed, and indicates that the farmers of this section have an eye not for the public servant, and that they have chalked down his actions for future reference.

The meeting chose Colonel White, of Sabetha, President for the coming year, and adjourned to meet at the call of the chair. FILE.

One of the good signs of the times is the change in the working time of railroad employes in Topeka. The Santa Fe force has been working on short time about six months. Monday of this week they began again on full time.

A good suggestion is made by a correspondent in another column to the effect that a re-discussion of questions relating to the currency of the country which were settled years ago, is profitless. It can do no good now to go over the greenback discussion again as to whether it was honest money or not or what were the defects in the law. Those matters are all settled now. Everybody favors greenbacks; everybody wants them; they are as good as gold in all transactions, and there is no complaint anywhere as to them. What is needed now is for the people to stand by them and not allow them to be discredited or retired.

Mr. C. H. Isely, of Brown county, an old and respected citizen, is taking a good deal of interest in the KANSAS FARMER. And he shows his faith by his works. He has frequently sent us subscriptions from among his neighbors and friends, his last letter containing twenty-four. Mr. Isely is a man of pure morals; he is an earnest Sunday school worker and churchman. When such men as he take hold of a paper to aid in extending its circulation, it is evident that the paper is fit to go into any family. The management of the KANSAS FARMER appreciates Mr. Isely's goodwill, and hopes to merit all the good things he says about it.

"Three Years Around the Camp Fires in Virginia" is the title of a little book written by a private soldier in the army of the Potomac, Mr. J. F. Breish. He tells what he saw and felt during those bloody years. His book will have a general interest for all old soldiers, and special interest for those who were in the Eastern army. Mr. Breish, in person, left a copy of his book with the FARMER for our perusal. It is worth the price, 25 cents, to any person who desires to review the scenes of the war, or to read of the hardships and amusements of soldiers on active duty. Published by *Kansas Knight and Soldier*, 273 Kansas avenue, Topeka, Kas.

The KANSAS FARMER is in receipt of so many approving letters concerning our opposition to the demonetization or discrediting of silver as a money metal, that some response seems to be required as matter of respect to our friends. There is nothing that we could say in response which would be more appropriate or true than that we regard the subject of vital importance to all people who earn their living by labor, and that our convictions in that direction are the result of careful, deliberate and unprejudiced study. We have the satisfaction now of feeling that what we did in the matter was right, and the further satisfaction of seeing the excitement passing away and the country settling down again into regular business channels of trade without a single dollar of gold having left the country because of the super-abundance of silver. Some day the National bank notes must go, and we want silver and gold enough then for the people to bank on.

Amending the Homestead Law.

There are several bills pending in Congress to repeal the pre-emption and timber culture laws, and at least one which proposes to amend the homestead law. It was introduced in the House by Mr. Fowler, of Ohio. It provides that any person over 21 years, the head of a family, and a citizen, shall receive from the treasury of the United States the sum of \$500 as a loan. The money must be expended solely in improvements upon the land entered and settled on, under conditions imposed by the homestead law, including the erection of buildings, the purchase of seed and implements, and such articles as may be necessary to improve and cultivate the lands. Before receiving the loans the person applying for it must file with the register or receiver of the local land office most convenient, a certificate signed by the judge of the United States Circuit or District court of the district in which he has resided, to show that he does not own goods or chattels or real estate in excess of \$300. The loan can be used for no other purpose except for improving the land. The settler is required to mortgage his land at 3 per cent. to the government. A copy of the mortgage is to be forwarded to the general land office at Washington, the original to be retained in the local land office, and the certified copies are declared to be evidence on the part of the United States, and suit for foreclosure may be instituted upon them. The registers are to keep a record of all loans, the names of the persons making them, their places of birth, former residences, the respective agents, the amounts paid upon the same from time to time, and shall make monthly reports of all acts done by them under the provisions of this act. Thirty-five million dollars are appropriated for the purpose of this act. When the mortgage is paid up the entryman is to have his patent if he does not commit perjury and go to the penitentiary.

We give the substance of the bill as an interesting item of news, not that we expect such a bill to become a law.

Inquiries Answered.

HOLSTEIN CATTLE.—Are there any herds of Holstein-Friesian cattle for sale in Kansas?

—Yes. Consult our advertising columns.

DAIRIES.—Are there any dairies in Kansas, and what kind or breed of cattle are used?

—(1) Yes. (2) Jerseys, Holsteins, Short-horns, grades and scrubs.

BULL—SEXUAL IRRITATION.—I want to ask through your paper what to do for a bull that abuses himself. He is two years old and a full-blood Short-horn. I have stall fed him all winter, but he looks poor. Now if you will tell me what to do for him you will oblige me very much.

—You have been feeding the bull too strong and have kept him too much confined away from other stock. Change feed to a lighter quality, such as cut hay or straw and wheat bran, give salt and good water plenty and let him run with steers, but be careful to protect him from cold and wet storms.

SICK MARE.—What is the matter with a mare I have? She is twelve years old and is heavy with foal, and up to about a month ago she was in fat order and lively spirits, when she commenced to cough slightly and commenced to fall off; she runs at the nose a little, but not very much; does not cough very much, is swelled in lumps under the jaws near the throat and there is two swellings just above the breast, one on each side as large as your fist just directly over the breast, but under where the collar works, and there is one swelling on the inside of the right fore leg near the body. A few days ago there was one in the same place on the other fore leg; they are loose, puffy-like swellings, and do not seem sore to press them. There are no sores on the membrane, lining of the nostrils are of the natural color, and no sores anywhere on her body. She run in a timbered pasture with other horses most of the winter, was fed corn and hay until about three weeks ago. I took her up and keep her in the stable and fed her bran, oats and hay. She will eat only about half a peck of bran and oats a

day, but eats hay with a better relish; seems fond of the bark of cottonwood saplings. She has got very poor and is getting poorer, which is unusual for her. She has done no work to speak of all winter. Just state what her disease is and the remedy. I have given her one tablespoonful sulphite soda twice a day in her water for one week. Send me a copy of the FARMER with the answer in it, and oblige.

—The mare took cold. She needs good, warm, dry, clean stabling, and warm, stimulating food. Have oats and rye and corn chopped (ground coarse—equal quantities of each) and feed it on cut hay mixed with warm water. Mix a little powdered ginger and gentian with the feed. Let her have exercise in the sunshine, but don't work her any nor ride her much. If her kidneys are torpid or irregular, give her a little watermelon seed tea on her feed occasionally.

HORSE OUT OF CONDITION.—I have a horse that I brought from Illinois four years ago, and he has not done well since that time. He eats all he can get and stays poor; can't stand work; he hasn't got the same life he used to have; his hair is rough; his hind legs swell in the stable; he is twelve or thirteen years old; he sweats easy; don't gain doing nothing, and fed heavy. What can be done for him?

—The horse went down under the influence of the climate. Horses, like men, go through a process of acclimating when they are taken from one State to another where a different climate prevails. And your horse has not recovered. A good, long rest will be needed, with light, nutritious food. When grass comes let him have all the green feed he wants and don't require any hard or heavy or hurried work of him for one whole year. Exercise him often, but lightly—not enough to worry him. Rub his skin often; keep him clean, and let him go barefooted.

Where is Thomas Harkness?

We are requested to publish the following: "Mr. Thomas Harkness left his home on the 1st day of November, 1885, and has not been heard from since. Had on a white hat, button shoes, blue plaid shirt, old faded clothes, black once; has blue eyes, white hair, gray sandy moustache and chin whiskers, short, low forehead, and deep wrinkles between the eyes and straight across the forehead; is five feet eight inches high, large and straight; has set mouth, good teeth and square chin. He belongs to the G. A. R., and is a member of John Brown Post, at Belleville, Kas. Had a Grand Army badge and had his discharge with him. He came to Kansas in 1871. Is a native of Scotland, and was 52 years old November 1st. Any one informing his wife of his whereabouts will be rewarded, as it is feared she will lose her reason unless she hears some word of him. Address Mrs. Sarah Harkness, Cuba, Kansas."

How to Raise Roots.

Kansas Farmer:

Will you please ask the readers of the KANSAS FARMER if they can give some information on root raising, such as swede, or rutabaga as it is generally called, and likewise mangel wurzel? How to prepare the ground, what time is best to get the ground ready, whether best to sow in ridges or on level ground, the month to sow the seed, the time of the month, and what cultivation they will need afterward? I would like to hear from some that have had experience in the above. Also, can you tell me the cause of specks of blood being in hens' eggs?

Yours truly, JOHN KIDBY.

Clay Center, Clay county, Kas.

To Destroy Cockroaches.

Mr. Wm. P. Higinbotham, Manhattan, Kas., proprietor of the Blue Valley Herd of Short-horns, writes us: "In your issue 24th inst., I notice Mr. McDuff's inquiry—"How to exterminate cockroaches." Powdered borax liberally distributed on the floor and around the base-board of the room infested with them, repeated two or three times, will in thirty days time do the business."

Lord Tennyson receives \$1,000 per annum and a butt of Malmsey wine, as poet laureate of England.

Horticulture.

The Miami County Nurseries.
Special correspondence KANSAS FARMER.

The Miami County Nurseries adjoin the city of Louisburg, Kansas, on the south and west, and cover in all 400 acres of as fine lands as are anywhere in the State, with every advantage in water, drainage, etc., necessary for successful growing of nursery stock. Cadwallader Bros. are proprietors of the Miami County Nurseries, and both are honorable, reliable, energetic and trustworthy gentlemen in every respect. They established the above nurseries in Miami county in 1869, seventeen years ago, and from a very small beginning have grown to immense proportions. To-day the Miami County Nurseries stand without a successful rival in the great State of Kansas, and are known everywhere as the leading firm in that important industry. A close attention to the wants of their customers, with a practical knowledge of the best varieties of fruits adapted to this State, has contributed very largely toward attaining for them the high position they now occupy as nurserymen. As to their financial standing and reliability, they refer to the bank of M. Reed & Co., Louisburg, Kansas, and to the Miami County Bank of Paola, Kansas.

The Miami County Nurseries employ none but reliable men to represent them, and every representative carries a commission duly signed by the proprietors, and, furthermore, they guarantee satisfaction both in quality of stock and mode of packing same, and all stock delivered to be as represented or *no charge*. Any one in need of forest, fruit and ornamental trees, shrubs, bulbs, etc., will find it decidedly to their interest to correspond with the Miami County Nurseries, and one of their representatives will call upon them. It will pay you to do this, rather than purchase from transient dealers, who are often irresponsible and have no reputation for honesty and reliability to sustain.

A KANSAS FARMER representative made a thorough examination of the Miami County Nurseries recently, and having known the Cadwallader Bros. for many years, can speak of a truth that they are men in whom every one can place explicit confidence, with full assurance that in so doing they get value received.

The apple, peach, pear, plum, cherry, crab, apricot and other trees are fine, well-formed and will be difficult to surpass. Their forest trees, consisting of catalpa, maple, pecan, white ash, chestnut and Russian mulberry, are in equally as good condition as the fruit trees. Their importations of evergreens are doing splendidly, and parties desiring to ornate their property certainly ought to secure a few of the French evergreens. Small fruits, shrubs and bulbs receive their careful attention, and are in elegant shape, thrifty and of large size.

The Miami County Nurseries also have a choice lot of Osage orange hedge plants, and parties desiring a durable, easily-constructed and lasting fence should grow hedge, and by putting one-half the expense on a hedge fence that is required to build other kinds of fences, there need be no fears about having a good fence. The stock annually maimed, crippled and destroyed by coming in contact with a barbed wire fence is enormous, and the value of same would construct and keep in excellent trim all the hedge fences of the State and still leave enough money to found and maintain a public library in every county in the State.

Be sure and write the Miami County

Nurseries, and in so doing mention the KANSAS FARMER.

P. S.—Those who patronize these nurseries cannot help but be pleased with the excellent stock they have for the spring delivery. HORACE.

Russian Mulberry.

Kansas Farmer:
In justice to my claims as set forth in my article on Russian mulberry, and no injustice to Mr. J. W. Byram, who offers no contradictory criticism, I would like to set this matter clear to the readers of the FARMER. Mr. B. conjectures that the "Russian mulberry" is a native of the region whence the Mennonites came, rather than a cultivated hybrid, or cross of several European or Asiatic varieties of the *Morus*. I having knowledge of the development of south Russia would inform my critic that no "native trees of any kind grew in a vast portion of the country whence the Mennonites come, prior to the introduction of the mulberry tree by the Russian government, the tree being introduced with a view of producing climatic change. According to the best authority I have been able to obtain from the Mennonites (who should know), and other authorities corroborate their testimony, the "Niger" and "Tartarica" mulberry was brought from Syria into south Russia about ninety years ago; but much difficulty was realized in its early introduction into Russia, as it was too tender to abide the severity of Russian winters; and this is what led to the crossing of those varieties with the "Alba," which grew on the mountains in the district of Cacausus. As to the method used for producing or effecting the cross, I am not informed, but incline to the opinion that it was accomplished by the mixing of the seed and inter-change of pollen by insects; however, I do not give this view as being correct.

The introduction of the mulberry tree into south Russia was under the supervision of a committee appointed by the Russian government; and not as my critic imagined, by the untutored Mennonites. I will say right here that while the majority of the Mennonites as a class are not scientific horticulturists, some among them are, and in no distant future will develop some very important features in that line.

The district of south Russia lying north of the Black Sea was a vast desert prior to the introduction of the mulberry tree by the Russian Czar; the object of its introduction was to develop the desert, and also to introduce the silk industry, and his purpose was fully attained. The Alba is of several varieties, producing both light and dark-colored fruit. It has been introduced in the United States for many years, and it is probable that the cuttings referred to by Mr. Byram were of that variety, as the history he gives of the "impenetrable hedge" grown from them also testifies.

In some portions of the Mennonite settlement I found the Alba predominant to the extent that the better varieties were quite exceptional; while in other portions, among careful growers, I found a large per cent. of the better qualities of the mulberry.

The Russian mulberry mixed, as we have it, is a very profitable tree for general purposes. For the purpose of wind-breaks and shrub fence, it is quite preferable mixed, as it grows more dense and sufficiently rapid. Millions should be planted everywhere on our bleak prairies.

About our friend B.'s advice to "Go slow on mulberry for silk-culture," who recommends to go fast? I refer my friend to my article on silk-culture in FARMER of January 20th.

Respectfully,
I. HORNER, Silk Culturist.

359 sorts Fruits, Plants, Trees, Low prices. Catalogue free. J. S. COLLINS, Moorestown, N. J.

SEEDS 8 packets Flower Seeds 10c. 5 packets Vegetable Seed 10c. Postpaid. Catalogue free. J. J. BELL, Windsor, N. Y.

LABETTE COUNTY NURSERY, — Seventeenth year. Crescent Strawberry Plants, \$1.50 per 1,000. All kinds of nursery stock equally low. Address J. L. Williams, Oswego, Kas.

Broomcorn Seed Wanted!

Address, with sample and price, naming variety, "Seedman," care 42 LaSalle St., Chicago, Ill.

SEEDS Large Garden Guide FREE to all. You should have it. Best varieties, all tested, at low prices. **COLE & BRO., Seedmen, Pella, Iowa.**

Russian Mulberry Seeds!

Of superior Fruit and Silk-producing qualities, per Package of 10,000 Seeds, \$1. Address I. HORNER, Silk Culturist, Emporia, Kas.

MILLIKEN'S GREENHOUSE, EMPORIA, KAS. A general Stock of Greenhouse and Bedding Plants, Flowering Shrubs, shade and Ornamental Grape Vines, Small Fruits, etc. Send for Price List. ROBERT MILLIKEN, Emporia Kas.

SEND A 2 cent stamp for Sample Package of Minnesota Early Amber Cane Seed, and Eighth Annual Circular on its Cultivation and Manufacture, Price of Seed, etc. **SETH H. KENNY, Morristown, Minn.**

TREES BY MAIL 20 Kelifer Pears, grafted, for \$1. Send postal for Catalogue. Our specialty, Meech's Prolific Quince, in any quantity. Also New and Valuable Fruits, Berries, etc. We send instructions how to grow them profitably. **WEST JERSEY NURSERY CO., BRIDGETON, N. J.**

500,000 No. 1 Hedge Plants, 50,000 One-Year Maple, 15,000 No. 1 Grape Vines, and a full line of all kinds of Nursery Stock for the spring trade. Send for Catalogue. Write for what you want and we will give you lowest prices. Douglas County Nursery, Lawrence, Kas., January 15 1886. WM. PLASKET & SON

STRAWBERRIES!! RASPBERRIES END 10c. for my new 32 page illus. Guide to Small Fruit Culture, containing full description and colored plate of the **MARIANA PLUM, E. F. SMITH, Lock Box 6, LAWRENCE, KAS.**

CAULIFLOWERS AND HOW TO GROW THEM A New Book, with Practical Information in Minute Detail. By mail, postpaid, 20 Cents. Dealers supplied at liberal discount. **FRANCIS BRILL, RIVERHEAD, LONG ISLAND, N. Y.**

Hedge Plants and Apple Trees 8,000,000 Hedge Plants, also a nice block of 60,000 Apple Trees, to be closed out this spring. **BABCOCK & STONE, North Topeka, Kas.**

Newton Home Nursery.

FOREST TREES for Timber-Culture Claims, also the justly-popular Russian Apricot, Russian Mulberry and Catalpa Trees, send seeds a specialty. Send for Catalogue. **R. W. CRANDALL, Newton, Kas.**

Rocky Mountain Evergreens.

THE MOST BEAUTIFUL & HARDY ON EARTH. Especially adapted to the arid atmosphere of the Western Prairies, and prized by all lovers of beautiful trees. We will send a trial order of 10 Douglas Spruce, 6 to 12 inches, by mail, for \$1, or 100 per express, \$5. General Descriptive Price List Free. **D. S. GRIMES, Denver Nurseries, DENVER, COL.**

Hart Pioneer Nurseries OF FORT SCOTT, KANSAS.

A full line of Nursery Stock, Ornamental Trees, Roses and Shrubs, etc. We have no substitution clause in our orders, and deliver everything as specified. 220 Acres in Nursery Stock. Reference: Bank of Fort Scott. Catalogue Free on application. Established 1857.

Catalpa Grove Nursery

CATALPA SPECIOSA and **RUSSIAN MULBERRY** Trees—all sizes—one to three years old. Strawberry, Raspberry and Blackberry Plants, Fruit Trees, Grape Vines, and a fine stock of extra two-year-old Currant Bushes.

Ornamental Shrubbery, Roses, Etc. Please state just what you want, and amount of each variety, and we will quote you special prices. Address **D. C. BURSON & CO., Topeka, Kas.**

TOPEKA SEED HOUSE!

ORCHARD GRASS, Timothy, Clover, Blue Grass, MILLET, HUNGARIAN.

All Kinds of Garden Seeds

Fresh and true to name, direct from Growers.

SEND FOR PRICE LIST OF SEEDS. Address **S. H. DOWNS, 78 Kansas Avenue, Topeka, Kas.**

STONE'S HARDY All leading Strawberries and Small Fruits. **STONE'S HARDY** Blackberry is our specialty. Best plants. Lowest Prices. Send for List. **COE & CONVERSE, BLACKBERRY (Name paper.) Ft. Atkinson, Wis.**

The LaCygne Nursery.

ESTABLISHED 1870.

WHOLESALE OR RETAIL.

10,000 Pear and Cherry, 1 and 2 years old. 100,000 Apple and Peach. 50,000 Russian Apricot and Russian Mulberry. 30,000 Grape Vines.

100,000 FOREST TREES!

Box Elder, Soft Maple, Catalpa, etc. Apple Grafts, Apple Seed, Apple Seedlings, Peach Pits, Pecan Nuts, Walnuts, Catalpa Seed, Russian Mulberry Seed, Greenhouse Plants, etc., etc. Low Prices. Satisfaction guaranteed. Address **D. W. COZAD, Box 25, LACYGNE, LINN CO., KAS.**

LAMAR NURSERIES

Have a Complete Line of General Nursery Stock, consisting of

Fruit, Shade & Ornamental TREES,

Flowering Shrubs, Evergreens, Small Fruits, Etc.

We make a specialty of Forest Trees, consisting of Catalpa, Soft Maple, White Ash, Box Elder, Black Walnut, etc. Also Red Cedar. Stock guaranteed to be first-class and at bottom prices. Price List Free upon application. Address **C. H. FINK & SON, Lamar, Mo.**

KANSAS CITY NURSERIES.

BLAIR & KAUFMAN, Proprietors. Office, 100 West Ninth St., Kansas City, Mo.

These Nurseries are on Twelfth street, one-half mile east of the city limits, and our sales yards in the spring on Walnut street, between Tenth and Eleventh streets.

This city being the great railroad center of the West, we can ship on shortest notice direct to almost any point; and having an experience of over twenty years in the business, and with the stock growing on our own grounds, we can send out the same fresh and in excellent condition. We have a general nursery of **Ornamentals of all Kinds as well as Fruits.**

We solicit correspondence from those wishing to deal direct with the Nursery.

Kansas Home Nursery

Is ready with a full supply of Home-Grown

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CHALLENGE WIND MILLS never blow down, a record no other mill can show. Sent on 30 days' trial. Also feed grinders, shellers, pumps, etc. Agents wanted. Catalogues free. CHALLENGE WIND MILL AND FEED MILL CO., Batavia, Kane Co., Ill.

The Cooley Creamer Raises all the Cream between the milkings. Saves 1/2 the labor. Increases yield 1/2; better. Improves quality; quadruples value of skim milk. Will pay for itself twice or more every season. Cooley System is the only uniform dairy method in existence. Send for circular, free, to JOHN BOYD, Manufacturer, 199 Lake St., CHICAGO.

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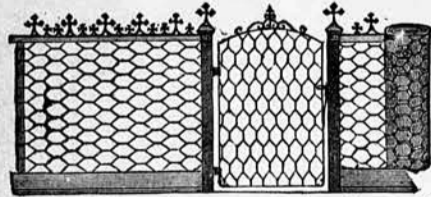
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JAMES J. H. GREGORY, MARBLEHEAD, MASS.

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Is the best general purpose wire fence in use. It is a strong net-work without barbs. Don't injure stock. It will turn dogs, pigs, sheep and poultry, as well as horses and cattle. The best fence for Farms, Gardens, Stock Ranges and Railroads. Very neat, pretty styles for Lawns, Parks, School-lots and Cemeteries. Covered with rust-proof paint, or made of galvanized wire, as preferred. It will last a life-time. It is better than boards or barbed wire in every respect. The Sedgwick Gates made of wrought-iron pipe and steel wire, defy all competition in lightness, neatness, strength and durability. We make the best, cheapest and easiest working all-iron automatic or self-opening gate, and the best cheap iron fences now made. The best Wire Stretchers, Cutting Pliers and Post Augers. For prices and particulars ask Hardware Dealers, or address, mentioning paper, SEDGWICK BROS., Richmond, Ind.

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Golden Pocklington, Delaware, Niagara, Niagara, one each, first-class, postpaid for \$2. 60,000 first-class Concord, at \$2 per 100; \$12 per 1,000. Also Worden, Elvira Iowa, Ives, Cawaba Verrennes, Brighton, Early Victor, Moores' Early, Rogers' H. brida, etc. Raspberries and other small fruits. Catalogues free. GEO. W. CAMPBELL, Delaware, Ohio.

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FARMERS! Don't let your stock freeze another winter. Plant RED CEDARS and TIMBER TREES for shelter-wind-breaks-ornament and profit. We have immense stocks. Red Cedars and Timber Tree Seedlings—all varieties. Also Large and Small Fruits. Write us for Price Lists. Address BAILEY & HANFORD, (On Ill. C. R. R.) Makanda, Jackson Co., Ill.

1833-1886 POMONA NURSERIES Headquarters for LAWSON and KIEFFER Pears, PARRY and LIDA—Best Market Strawberries, WILSON, Jr.—The largest known Blackberry, and best variety for cold climates where winter protection is necessary. 4 1/2 in. around, 123 bu. per acre. MAKI BORO, NIAGARA, other NEW GRAPES, Fruit Trees, &c. WM. PARRY, PARRY P. O., N. J.

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MARKET GARDENERS' trade A SPECIALTY. Catalogue free. Send for it. AARON LOW, SEED GROWER, ESSEX, MASS.

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Plants of Highest Quality. Large Stock. Lowest Prices. SHEED POTATOES. Varieties that Resist Rot and Yield Heavily. Write for Free Illustrated List to J. F. DAYTON, Waukon, Allamakee Co., Iowa.

Free D.M. FERRY & CO'S SEED ANNUAL FOR 1886. Will be mailed FREE to all applicants, and to customers of last year without ordering it. It contains about 180 pages, 600 illustrations, prices, accurate descriptions and valuable directions for planting all varieties of VEGETABLE and FLOWER SEEDS, BULBS, etc. Invaluable to all, especially to Market Gardeners. Send for it. D. M. FERRY & CO., Detroit, Michigan.

THE RURAL HOME SEEDS FREE AS A PREMIUM COLLECTION OF NOVELTY SEEDS. The Rural Home is one of the best farm and family papers published. It contains 16 neatly printed pages of reading matter, edited by practical and experienced writers. It is a very interesting and useful paper, and is sold for 25 cents a copy. It contains a large amount of choice seeds, such as African Watermelon, from Libanian seed. This is a very large and beautiful melon, and is sold for 25 cents a dozen. It also contains a large amount of choice seeds, such as White Turban Squash, Yellow Globe Pepper, Early Large Cob Sugar Corn, Ladies' Favorite Beet, A novelty of high merit. Of the Egyptian variety. Well set with large, broad, thick grains. Golden Ball Radish. Has no superior as a summer radish. Shape, globular; color, amber; mild flavor. Improved Cardinal Tomato. The most productive of any Lima bean yet raised. Podding, very early. King of the Garden Lima Bean. This is a very early and very productive variety. The heads are from 10 to 12 inches in diameter. The seeds are large and very solid. Very early to run to seed. We are sure you will be pleased with all these seeds. They are warranted to be of the best quality, true to name, fresh and pure. Remember we send the 10 packets of seeds prepaid, and the Rural Home one year for only 57c. Send us a club of 8 orders, and we will send you your paper and seeds free. Address, THE RURAL HOME, 530 Walnut St., Phila., Pa.

VIRGINIA FARMS Mild Climate. Cheap homes. Northern Colony. Send for circular. A. O. BLISS, Centralia, Va.

\$1000 Positively sure to Agents everywhere selling our New SILVER WIRE WHITE WIRE CLOTHES-LINE. Warranted. Pleases at sight. Cheap. Sells readily at every house. Agents clearing \$10 per day. Farmers make \$800 to \$1200 during Winter. Handsome samples free. Address, GIRARD WIRE MILLS, Philadelphia, Pa.

SECRETS OF LIFE Sent FREE: sealed. Private adviser, 21 illustrations; all languages. Contains copies of our Diplomas, Certificates and Testimonials of Cure. Correspondence strictly private. Dr. Lucas Private Dispensary, 132 Clark St., Chicago.

Off with the tariff on seeds! Relief for the people! GREAT SUCCESS IN THE SEED TRADE OUR NEW DEPARTURE IN THE SEED TRADE SEEDS AT YOUR DOOR AT WHOLESALE PRICES. In order to sell our seed crop—1885—direct to the planter, we make the following PROPOSITION: 60 CENTS will send by mail post-paid, 19 PACKETS of the following new and improved seeds:—Zantian's Early Blood Red Beet, the earliest and best for table use. "BEST OF ALL" BEANS short bean in the world. Pods as tender and buttery in winter as in summer. Hawaii Sugar Corn from the Sandwich Islands; the sweetest sugar corn that grows. Early Etampes Cabbage in cultivation. Sure Head Cabbage, best winter bage, best and earliest of all early varieties. Wilson's Early Green Cluster Cucumber, good for early cucumbers or pickles. Golden Self-Blanching Celery, needs no banking up; excellent quality; keeps all winter. Perpetual Lettuce, tender and crisp all summer. Pride of Georgia Watermelon, none sweeter or better. A new muskmelon, from the south of Spain. First premium at Penna. State Fair. Pronounced the best-flavored muskmelon in the world. New Red Hocco Onion from Italy. Grows large onions from seed first year. Tennessee Sweet Potato Pumpkin, none better for pies or custards. Abbott's Improved Sugar Parsnip. Ruby King Pepper, the largest and finest sweet pepper ever seen. Improved Long Scarlet Radish, best for early use. Half-long Strasburg Radish, good for spring or summer. New Brazilian Sugar Squash, sweetest and best-flavored, for summer or winter. Livingston's Favorite Tomato, large, smooth as an apple, productive and solid. Early White Egg Parsnip, sweetest and best for table use. In all 19 PACKETS for 60 CENTS! TWO COLLECTIONS for \$1.10; FOUR for \$2.00. ANOTHER PROPOSITION To adorn your homes and make life pleasant, as we grow flower seeds by the pound, bushel, and by the acre, to give our lady friends the benefit of the wholesale trade, we will send by mail one each of the following: Actaea, fine, double, mixed. Balsam, extra large, double, mixed. Chrysanthemum (Paris Daisy), very fine. Mignonette, sweet scented. Double Rose-flowered Portulaca, nearly all double; all bright colors. Fuchsia, finest strain. Fetid-nias, large-flowering; Phlox Drummondii, all bright colors. Verbena, ten beautiful colors. Zinnias, large, double, nias, large-flowering; Phlox Drummondii, all bright colors. Verbena, ten beautiful colors. One beautiful Everlasting Flower, bright colors. One fine Ornamental Grass. One splendid Climbing Plant. One beautiful Everlasting Flower, bright colors. In all, 18 PACKETS for 50 CENTS. TWO COLLECTIONS for 90 CTS. Directions for cultivating on each packet. ONE COLLECTION OF FLOWER SEEDS AND ONE OF VEGETABLE SEEDS FOR 80 CENTS, OR TWO OF EACH FOR \$1.50. Beautiful Illustrated Catalogue accompanies each order. No change. Address SAMUEL WILSON, SEED GROWER, MECHANICSVILLE, BUCKS COUNTY, PENNSYLVANIA.

HALF A MILLION GARDENS ARE ANNUALLY SUPPLIED WITH Peter Henderson's SEEDS AND PLANTS. Our Seed Warehouses, the largest in New York, are fitted up with every appliance for the prompt and careful filling of orders. Our Green-house Establishment at Jersey City is the most extensive in America. Annual Sales, 2 1/2 Million Plants. Our Catalogue for 1886, of 140 pages, containing colored plates, descriptions and illustrations of the NEWEST, BEST and RAREST SEEDS and PLANTS, will be mailed on receipt of 6 cts. (in stamps) to cover postage. PETER HENDERSON & CO. 35 & 37 Cortlandt St., NEW YORK.

FAY CURRANT GRAPES BEST STOCK IN THE WORLD. HEADQUARTERS GRAPES world. Niagara, Empire State and all the other best Grape Vines, new and old. Vines wintered in Mammoth stone cellars with roots in fine sand. Trees and Small Fruit Plants. By mail, express or freight. Lowest prices ever known for Dealers, Agents, Planters and Everybody. In every respect a Model and First-class Establishment. Accurate naming and highest grading. Free Illustrated Catalogue. Please write me before you buy. GEO. S. JOSSELYN, Fredonia, N. Y.

GREBE IRON TEETH STALK RAKE Patented August 23, 1881. For Rakes and price write to Davidson & Hansen, Junction City; C. Twitchell, Concordia, and L. W. Libby, Marysville, Kansas. HENRY GREBE, Manufacturer, Omaha, Nebraska. To Bake Cornstalks and Rubbish into Windrows to Burn Them.

EHRET'S PREPARED ROOFING WATERPROOF & FIREPROOF. ADAPTED FOR ANY ROOF. Guaranteed Best and Cheapest Roof Used. Ask your Dealer or Write Us for Prices and Testimonials. M. EHRET, Jr., & CO. W. E. CAMPE, Agent, 9th and Olive Sts., St. Louis, Mo.

TOWER'S FISH BRAND SLICKER The Best Waterproof Coat. The FISH BRAND SLICKER is warranted waterproof, and will keep you dry in the hardest storm. The new POMMEL SLICKER is a perfect riding coat, and covers the entire saddle. Beware of imitations. None genuine without the "Fish Brand" trade-mark. Illustrated Catalogue free. A. J. Tower, Boston, Mass.

PILE'S Instant relief. Final cure in 10 days, and never returns. No purge, no salve, no suppository. Sufferers will learn of a simple remedy free, by addressing G. J. MASON, 78 Nassau St., N. Y. CATARRH SAMPLE TREATMENT FREE! So great is our faith that we can cure you, dear sufferer, that we will mail enough to convince you, FREE. Send 10-cent stamps to cover expense and postage. B.S. LAUDENBACH & CO., Newark, N.J. MEN ONLY. A Quick, Permanent Cure for Lost Manhood, Debility, Nervousness, Weakness. No quackery. Indisputable Proofs. Book sent sealed free. ERIE MED. CO., BUFFALO, N.Y.

THE STRAY LIST.

Strays for week ending Feb. 17, 1886.

Hodgeman county—E. E. Lawrence, clerk.
 PONY—Taken up by J. C. Sanders, of Center tp., (P. O. Jetmore), one sorrel horse pony, 10 years old, indescrutable brand.

Nemaha county—R. S. Robbins, clerk.
 STEER—Taken up by J. P. Cone, of Richmond tp., (P. O. Seneca), January 23, 1886, one 1-year-old light red steer, crop off left ear; valued at \$20.

Nessho county—T. B. Limbocker, clerk.
 2 STEERS—Taken up by S. E. Beach, of Tioga tp., (P. O. Chanute), February 6, 1886, two white steers, 1 year old, one has red ears, no other marks or brands; valued at \$12 each.

Shawnee county—D. N. Burge, clerk.
 2 PONIES—Taken up by J. E. Guild, of Silver Lake tp., January 18, 1886, two mare ponies, one bay, white star in forehead, about 5 years old; the other brown, small white spot in forehead, both hind feet white; valued at \$40 each.

Labette county—W. W. Cook, clerk.
 COW—Taken up by John Torrence, of Hackberry tp., January 19, 1886, one small red cow, 5 years old; valued at \$15.
 COW—By same, one medium-sized red cow, branded T on left hip, 5 years old; valued at \$15.
 COW—By same, one medium-sized red cow, 10 years old, point of each horn off; valued at \$13.
 COW—By same, one red and white 3-year-old cow; valued at \$16.
 COW—By same, one red and white 3-year-old cow; valued at \$16.

Pottawatomie county—I. W. Zimmerman, clk.
 2 HEIFERS—Taken up by James Conleke, of St. Marys tp., December 3, 1885, two yearling heifers, one red and white, and one white with red neck, no marks or brands; valued at \$8 each.

Strays for week ending Feb. 24, 1886.

Lyon county—Roland Lakin, clerk.
 HEIFER—Taken up by Andrew Miller, of Elmdar tp., December 21, 1885, one 2-year-old spotted heifer, no marks or brands; valued at \$12.
 STEER—Taken up by H. A. Loy, of Americus tp., January 5, 1886, one red and white spotted yearling steer, tip off right ear and under-bit in left ear, dim brand on left hip; valued at \$15.
 STEER—Taken up by John Rosenguls, of Jackson tp., January 12, 1886, one yearling steer, red-roan, dim brand on right hip; valued at \$15.
 STEER—Taken up by E. C. Payne, of Ivy tp., November 19, 1885, one red-roan 2 year old s ear, streak over the back behind the shoulders, white on belly and on hind legs, under-bit in left ear; valued at \$33.
 HEIFER—Taken up by John Morris, of Jackson tp., December 22, 1885, one white 2-year-old heifer, small, no marks or brands; valued at \$16.
 STEER—By same, one 2-year-old roan steer, crop and swallow-fork in right ear.

Allen county—R. W. Duffy, clerk.
 HEIFER—Taken up by J. A. Christy, of Iola tp., November 27, 885, one roan 2-year-old heifer, no marks or brands; valued at \$12.
 STEER—Taken up by P. W. Fleher, of Carlyle tp., January 16, 1886, one red and white 1-year-old steer, no marks or brands; valued at \$14.

Sumner county—Wm. H. Berry, clerk.
 COW—Taken up by W. J. Addie, of Chikaskia tp., February 10, 1886, one red cow, no brands, a slit in the right ear and the left ear cropped, point of left horn broken; valued at \$18.
 HEIFER—Taken up by James Kuhn, of Belle Plaine tp., January 23, 1886, one red and white speckled 2-year-old heifer, no marks or brands; valued at \$20.

Greenwood county—J. W. Kenner, clerk.
 HEIFER—Taken up by S. Shaugh, of Quincy tp., one small red 2-year-old heifer, indistinct brand, no ear-marks; valued at \$12.

Shawnee county—D. N. Burge, clerk.
 HORSE—Taken up by James P. Garrett, of Mission tp., February 18, 1886, one light brown horse, 14 years old, slit in left ear; valued at \$30.
 HORSE—Taken up by B. F. Chapman, of Soldier tp., February 16, 1886, one bay horse (gelding), 8 years old, no marks or brands, a piece of blue ribbon braided in mane at time of taking up; valued at \$50.

Riley county—O. C. Barner, clerk.
 STEER—Taken up by H. H. Greeley, of Ashland tp., February 2, 1886, one small yearling steer, red and white mixed, tip of left ear off, right ear notched in the under side.

Elk county—J. S. Johnson, clerk.
 STEER—Taken up by John Thompson, of Grenola, in Grenola tp., January 12, 1886, one red and white spotted 1-year old steer, no marks or brands; valued at \$20.

Nemaha county—R. S. Robbins, clerk.
 HEIFER—Taken up by J. L. Payne, of Illinois tp., (P. O. Centralia), February 17, 1886, one roan steer, 1-year-old past, no marks or brands visible; valued at \$16.

Washington county—John E. Pickard, clerk.
 COW—Taken up by L. J. Sprengle, of Coleman tp., January 18, 1886, one very large white-roan cow, age about 6 years, weight about 1,100 pounds, branded S on left hip, hole punched in left ear; valued at \$30.

Strays for week ending March 3, 1886.

Montgomery county—H. W. Conrad, clerk.
 HEIFER—Taken up by J. H. Hand, of Cherokee tp., January 16, 1886, one red and white spotted heifer, coming 2 years old, branded M. C. on right hip, crop off both ears, swallow-fork in left ear; valued at \$10.
 STEER—By same, one muley steer, 2 years old, line back, spotted side, red neck, swallow-fork in right ear; valued at \$12.
 COW—Taken up by M. T. Cranor, of Caney tp., November 19, 1885, one black and white cow, 6 years old, medium size, Indian stock, branded OO on left hip and A with a line under it on left side; valued at \$15.

McPherson county—E. L. Loomis, clerk.
 STEER—Taken up by C. J. Stronquist, of Harper tp., December 16, 1885, one red steer, about 1½ years old, no marks or brands; valued at \$22.
 STEER—Taken up by G. H. Powers, of Canton tp., one dark red steer, about 2 years old, weight about 700 pounds, round brand on each side of tail, (no value or date given).

Greenwood county—J. W. Kenner, clerk.
 STEER—Taken up by M. W. Watson, of Bachelor tp., November 1, 1885, one yearling steer, no marks or brands visible; valued at \$12.
 STEER—Taken up by J. A. Valk, of Bachelor tp., November 1, 1885, one red 2-year-old steer, no marks or brands; valued at \$28.

Woodson county—I. M. Jewett, clerk.
 HEIFER—Taken up by T. R. Carlisle, of Toronto tp., one 3-year-old heifer, mostly red, no marks or brands visible.

Nemaha county—R. S. Robbins, clerk.
 HEIFER—Taken up by Alex Moore, of Seneca, in Mitchell tp., February 3, 1886, one 1-year-old red heifer, a little white on belly, bush of tail off, crop off both ears, under-bit in left ear.

SELL
 Your High-Priced Farm!

BUY
 Good Farming Land
 —IN—
FINNEY CO.

SCHOOL LAND.
 From \$4 to \$7 per acre. One-half cash, balance in twenty years at 6 per cent. interest. We have several choice sections within ten miles of R. R. station.

DEEDED LAND.
 From \$3 to \$200 per acre.
 Homestead and Tree Claim Relinquishments
For Sale Cheap.
 IRRIGABLE IF NECESSARY.
 We locate Settlers on Government Land.

For further information address
KIMBALL & REEVE,
 Garden City, Kansas.

FARMS AND RANCHES—INVESTMENTS
 and IMMIGRATION!
 We have for sale or exchange Agricultural and Grazing Lands in Missouri, Kansas, Colorado, Texas and New Mexico, in tracts from one to one million acres. Wild Lands, \$1 to \$10 per acre on one to eleven years' time. Improved Farms, \$10 to \$50 per acre, owing to location; terms reasonable. We are agents for Union Pacific Railway Lands, and locate colonists; buy and sell city, county, township, bridge and school bonds; make loans on first-class improved lands (personal examination) at 7 to 8 per cent, 2 to 5 years' time. Correspondence and capital solicited. References and information given free. Special rates to excursionists. Address or call on *Farm, Ranch & Investment Co.*, Room 32, Cor. 7th and Delaware Sts., Kansas City, Mo.

FOR SALE!
 I have a first class RANCH AND STOCK for sale cheap to cash customer. Send for description.
 H. H. REYNOLDS,
 29 Shields Building, Kansas City, Mo.

MARYLAND FARMS Book & Map free, by C. E. Shanahan, Atty, Easton, Md

GALLOWAY CATTLE SALE.



The undersigned will sell at Public Sale at
GOODRICH, KANSAS,
 (Fifteen miles east of Garnett, 12½ miles southwest of Greeley, 16 miles west of LaCygne,) commencing at 10 o'clock a. m., on
Thursday, March 11th, 1886,
 The following described stock:

70 THOROUGHBRED AND HIGH-GRADE GALLOWAYS
 Five thoroughbred bulls, from 1 to 4 years old; thirty half-blood bulls, 1 and 2 years old; two thoroughbred cows; the balance half blood heifers, 1 and 2 years old.
 Sixty head of high-grade Short-horn cows and heifers with calf by thoroughbred Galloway bulls.

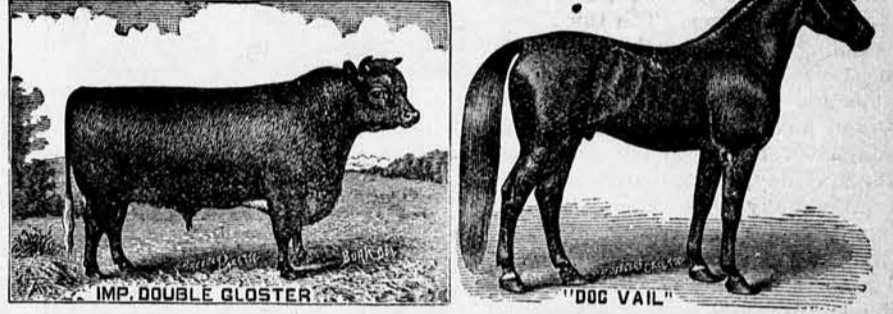
HORSES AND MULES.
 Four geldings, 5 and 6 years old this spring; five mares, from 4 to 10 years old; six mules—1 span 2 years old, and the others 3 years old this spring. All good, fine mules.
 I also have 100 head of hogs, consisting of good brood sows and fine shoats, for sale. Also farm utensils, consisting of wagons, harness, plow, etc.
 TERMS:—All sums under \$10, cash in hand; on sums of \$10 and over a credit of twelve months will be given, purchaser giving note with approved security, drawing 10 per cent. interest from date. Five per cent. discount for cash.
J. S. GOODRICH,
 H. H. MOGLOTHLIN, Auctioneer.

200 HEAD OF High-Grade :: Short-horns!
 —All Females, and about—

10 THOROUGHBRED SHORT-HORN BULLS
 Will be Sold at Public Auction
At St. Marys, Kas., Thursday, April 1st, 1886.

All the females have five or more thoroughbred Short-horn crosses, making them practically thoroughbreds, and none of them will be over six years of age. Among the bulls to be disposed of is KIRKLEVINGTON LAD 5th, a finely-bred Bates, bred by T. J. Megibben, of Kentucky. Sale positive, without reserve. Pedigrees furnished day of sale.
 TERMS:—Cash, or a credit of eight months will be given if desired, on acceptable notes, bearing 8 per cent. interest.
 For further information address
**S. A. SAWYER, } Auctioneers.
 J. J. WELCH, }**
BRO. PATRICK KEHOE,
 St. Marys, Kas.

BLUE VALLEY HERD AND STUD
OF SHORT-HORN CATTLE,



The Blue Valley Herd and Stud offers for sale FIFTEEN RECORDED SHORT-HORN BULLS of choice breeding, good colors and splendid individual merit; thirty head of equally good COWS AND HEIFERS; also thirty head of first-class ROADSTER, DRAFT AND GENERAL-PURPOSE HORSES, many of which are well-bred single and double drivers.
 My stock is all in fine condition and will be sold at reasonable prices. Correspondence and a call at the Blue Valley Bank respectfully solicited. *Write for Catalogue.*
MANHATTAN, KAS., January 1st, 1886.] WM. P. HIGINBOTHAM.

SHOCKEY & GIBB,
 Lawrence, : Kansas,
 BREEDERS AND IMPORTERS OF

HEREFORD CATTLE!

OUR SPECIAL PRIVATE OFFERING consists of FORTY HEAD of curly, mossy-coated, deep-meated HEIFERS, in calf to our noted herd bulls, BEAU MONDE and BEAU REAL, and sired by the Royal winner CHANCELLOR by HORACE, Royal winner HOTSPUR by LORD WILTON, ATTILLA (own brother to HESIRD), CASSIO and RUDOLPH, by THE GROVE 3d and REMUS.
 Also THIRTY HEAD of

Yearling and Two-year-old Bulls
 by the above sires, a number of which are well suited to head choice herds and win honors in the show ring.

OUR HERD NUMBERS 125 HEAD of easily-kept, early-maturing Herefords, of great scale and substance, and our first-prize and sweepstakes-winning herd bulls, BEAU MONDE and BEAU REAL, stand high in typical beef points, having for ancestry bulls of Royal Show notoriety and famous as beef-producers.

HOLSTEIN-FRIESIANS

ALL AGES AND BOTH SEXES. HOME-BRED AND IMPORTED.
 Cows and Heifers Bred to Best Netherland and Aaggie Bulls.
 The Average Records of a Herd are the True Test of Its Merit.
 The Following Milk and Butter Records Have All Been Made by Animals Now in Our Herd:
MILK RECORDS:
 Five Cows have averaged over 19,000 lbs. in a year. Ten Cows have averaged over 18,000 lbs. in a year.

We know of but 23 Cows that have made yearly records exceeding 16,000 lbs. and 14 of them are now in our Herd and have averaged over 17,500 lbs.
 Twenty-five have averaged over 16,000 lbs. in a year. Sixty-three, the entire number in the Herd that have made yearly records, including 14 three-year-olds and 21 two-year-olds, have averaged 12,785 lbs. 5 ozs. in a year

BUTTER RECORDS:
 Five Cows have averaged 20 lbs. 7 ozs. in a week. Nine Cows have averaged 19 lbs. ¼ oz. in a week. Fifteen Cows have averaged 17 lbs. 6 ozs. in a week. Six three-year-olds have averaged 14 lbs. 3 ozs. in a week. Eleven three-year-olds (the entire number tested) have averaged 13 lbs. 2 ozs. in a week. Six two-year-olds have averaged 12 lbs. 1½ ozs. in a week. Fifteen two-year-olds (entire number tested) have averaged 10 lbs. 8 3/10 ozs. in a week. The entire original imported Netherland Family of six cows (two being but three years old) have averaged 17½ lbs. in a week. This is the Herd from which to get foundation stock. Prices low for quality of stock. SMITHS, POWELL & LAMB, Lakeside Stock Farm, Syracuse, N. Y.

CLOSES ON OUTSIDE OF NOSE.
 Only Double Ring Invented.
Champion Hog Ringer
 Rings and Holder.
 The only ring that will effectually keep hogs from rooting. No sharp points in the nose.

Only Single Ring Ever Invented that Closes on the Outside of the Nose.
BROWN'S
Elliptical Ring
 —AND—
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 Only Single Ring that closes on the outside of the nose. No sharp points in the nose to keep it sore.
CHAMBERS, BERING, QUINLAN CO., Exclusive Manufacturers, DECATUR, ILLINOIS.

The Veterinarian.

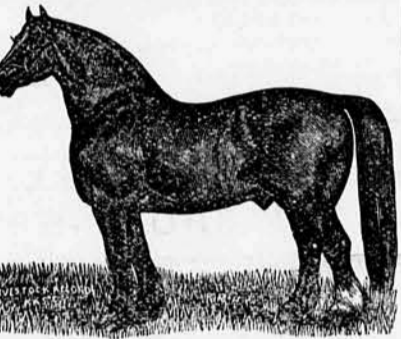
[The paragraphs in this department are gathered from our exchanges.—ED. FARMER.]

ANTHRAX.—I recently lost a bull by an obscure disease, and should like to know what it was and whether it is likely to affect other stock or not. He was three years old, had been stabled for four months, was in good flesh and had never been sick in his life. The first indication of disease noticed was one morning, the right parotid gland was swelled to half the size of a man's hat. The swelling increased during the day, extended along his throat and to a small extent under the other jaw. There was some swelling on the right jaw inside his mouth. His tongue was white and bloodless. The next day the swelling extended down his throat to his fore legs, occasioning some difficulty of breathing but no cough, and was accompanied by fever. The third day the swelling increased on the lower part of his throat and in the evening he died. He ate and drank very little the first day, and none afterwards. He could walk about readily until the afternoon of the third day, and appeared to suffer very little at any time. From the first I used remedies freely to reduce the swelling, allay inflammation and neutralize any blood poison. Two M. D.'s examined him early in the disease, and pronounced the symptoms the same as of snake bite. A post mortem examination showed that the digestive organs and liver were in normal condition. The lungs were of proper size and appearance except next to the throat, where they were bloody and disorganized. The heart was about twice its natural size and very much disorganized in its upper part, the tissues appearing like so many strings. The flesh in the swelled part was in the same condition. No similar case has been known about here. —[Anthrax—Carbuncular fever—Pustula maligna.—We cannot see the possibility of your animal being bitten by a snake when confined in the stable. If it had been on pasture there might be something in it, but from the symptoms given by you we do not hesitate in saying it was anthrax, a blood disease, a fever, in which there is a very sudden change in the physical characters and physiological properties of the blood, and in which passive hemorrhages, ecchymoses, phlegmons, boils, carbuncles, and gangrenous applications occur with fatal results. It originates spontaneously in young animals more readily than in old, in the thrifty and vigorous more readily than in the weak, and in those changed from spare to liberal feeding. Animals are destroyed by anthracoid diseases when fed on very rich food, and especially when kept within narrow limits so as not to get sufficient exercise. Symptoms vary in many cases, but generally there is shivering, lassitude, stupor, impaired appetite, a whitish discharge from the nose, accelerated pulse and breathing, with either costiveness with simy dung or scouring, high-colored urine, swellings from the size of one's fist to one's head, extending from the throat to the chest and belly and different parts of the body, or engorgements of the limbs and head. These symptoms increase and death may ensue in forty-eight hours. Treatment: Success is only attended by opening the bowels freely, giving plenty of exercise, keeping the strength up by giving diffusible stimulants, such as carbonate of ammonia, and applying cold water to the swelling. Preventives consist of low diet, active exercise, purgatives, and neutral salts in water.]

Clydesdale and English Shire Horses.



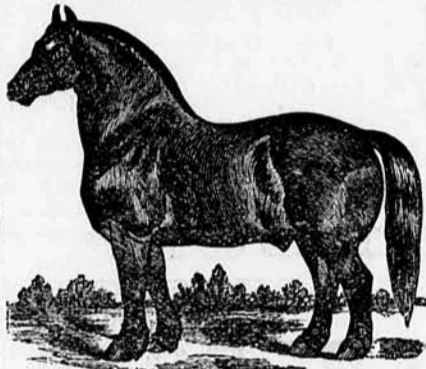
The only stud in America containing the very best specimens of both breeds. Prize winners at Chicago Fair, the World's Fair at New Orleans, the Royal Society of England, etc. Large importation arrived August 12, and more to follow. Our buying facilities being unequalled, there is no such opportunity offered elsewhere, to procure first class animals of choicest breeding at very lowest prices. Every animal duly recorded and guaranteed. Terms to suit all customers. Catalogues on application.



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Importer and breeder of CLYDESDALE and PERCHERON-NORMAN HORSES. Choice stock for sale, including some fine Grades. Also Jacks for sale. Correspondence solicited. Satisfaction guaranteed.

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S. V. WALTON & SON, Box 207, Wellington, Kansas, —Breeder of— IMPROVED POLAND-CHINA HOGS Of the Highest Type. All well pedigreed. Correspondence solicited

EXCELSIOR HERD OF POLAND-CHINAS and ENGLISH BERKSHIRES. D. H. WEBSTER, Austin, Cass Co., Mo. My herd is made up of individuals from noted and popular families. Are all recorded. Single rates by express. Choice Pigs for sale. Prices low. I also breed from premium stock, Plymouth Rocks, Langshans, Mammoth Bronze Turkeys, Toulouse Geese, and Imperial Pekin Ducks. Fowls for sale. Eggs in season. Send for Circular, and mention KANSAS FARMER.

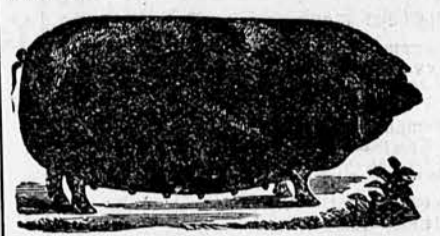
MILLER BROS., Junction City, Kansas, Can sell you POLAND-CHINA SWINE At reduced rates. The stock is the best that can be bred, but prices have been reduced to suit the times. We have no Cholera and never had! Spring Pigs, Big each, \$25 per pair. Summer Pigs, \$12 each; \$20 per pair. Young sows bred, \$25 to \$30. Old sows bred, \$30 to \$35. All eligible to record in the Ohio Poland-China Record.

THOROUGHbred POLAND-CHINA KING STEVENS VOL. 5. Produced and bred by A. G. MOORE & SONS, Canton, Ill. The best hog in the world. We have made specialty of this breed for 38 years. We are the largest breeders of thoroughbred Poland Chinas in the world shipped over 700 pigs in 1883 and could not supply the demand. We are raising 1,000 pigs for this season. We have 160 sows and 18 males we are breeding now. Our breeders are all recorded in American P. & C. Record. Pigs all eligible to record. Photo card of 4 breeders free. Swine Journal 25 cts. in 2 cent stamps. Come and see our stock; if not as represented we will pay your expenses. Special rates by express.

THE GOLDEN BELT HERD OF THOROUGHbred POLAND-CHINAS Owned by TRUESDELL & PERDUE, Lyons, Rice Co., Kansas. Comprises fifty sows and four choice males, every one a show animal, carrying the blood of Black Bess, U. S., and Tom Corwin strains. Sows safe in pig young boars and sows for sale. All stock recorded in A. P. & C. Record. Pedigree with every sale. Describe exactly what you want. Orders booked for spring pigs. Correspondence promptly answered. F. W. TRUESDELL, Successor to Truesdell & Perdue, Lyons, Kas.

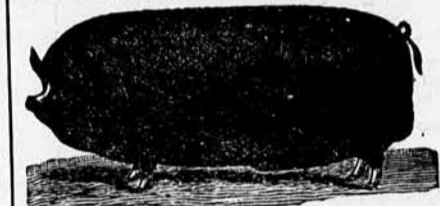
OTTAWA HERD OF Poland-China and Duroc Jersey Red Hogs. I have for sale a fine lot of young pigs sired by Jayhawker 2639, Ottawa King 2885 (the champion hogs of Franklin county), and Buckeye Boy 31 2219, Ben Butler 2977, Jack's Gilt-Edge 2887, which are very fine breeders of fashionable strains. My sows are all first-class and of popular strains. I also have an extra fine lot of Duroc Jersey Red pigs for sale from sires and dams that have never been beaten in the show ring in four centuries in Kansas. I have hogs of all ages in pairs or trio of no kin, for sale. Herd has taken over twenty prizes this last year. My herd has never had any disease. Stock all eligible or recorded in Central Record. Please call and see stock, or write and give description of what you want. Inquiries promptly answered. Farm, three miles southeast of Ottawa, Kas.

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GRANGER HERD consists of 22 Registered Sows and 5 Boars premium stock, and their offspring, Pigs representing from twelve to twenty-eight premium ancestors on pedigrees furnished. Black Rosal Corwin 3217, as furnished boars for some of the best herds in the West. Ohio Index and Kansas St. milder 3605 represent the highest Ohio premium stock; Levi 6599, Dorsey's Sweepstakes 3311 and Hanna's Best are now in service. We have shipped as many fine pigs, from West Virginia to California, as any breeder in the West. We sell only the best, and have no cheap ten-dollar pigs for anybody. Describe exactly what you want, naming nearest express office. W. S. HANNA, Ottawa, Kansas.

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THE WELLINGTON HERD of well-bred and imported BERKSHIRES is headed by Hopeful Joe 1889. The herd consists of twenty matured brood sows of the best families. This herd has no superior for size and quality, and the very best strains of Berkshire blood. Stock all recorded in A. R. R. Correspondence and inspection invited. Address M. B. KEAGY, Wellington, Kas.

PLEASANT VALLEY HERD Pure-bred Berkshire Swine.



I have thirty breeding sows, all matured animals and of the very best strains of blood. I am using three splendid imported boars, headed by the splendid prize-winner Pleasant Valley 2919, winner of five first prizes and gold medal at the leading shows in Canada in 1881. I am now prepared to fill orders for pigs of either sex not akin, or for matured animals. Prices reasonable, satisfaction guaranteed. Send for catalogue and price list, free. S. McCULLUGH, Ottawa, Kansas.

Chester White, Berkshire and Poland-China Pigs fine Setter Dogs, Scotch Collies, Fox Hounds and Beagles, Sheep and Poultry, bred and for sale by W. GIBBONS & CO., West Chester, Chester Co., Pa. Send stamp for Circular and Price List.



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YOUR STOCK
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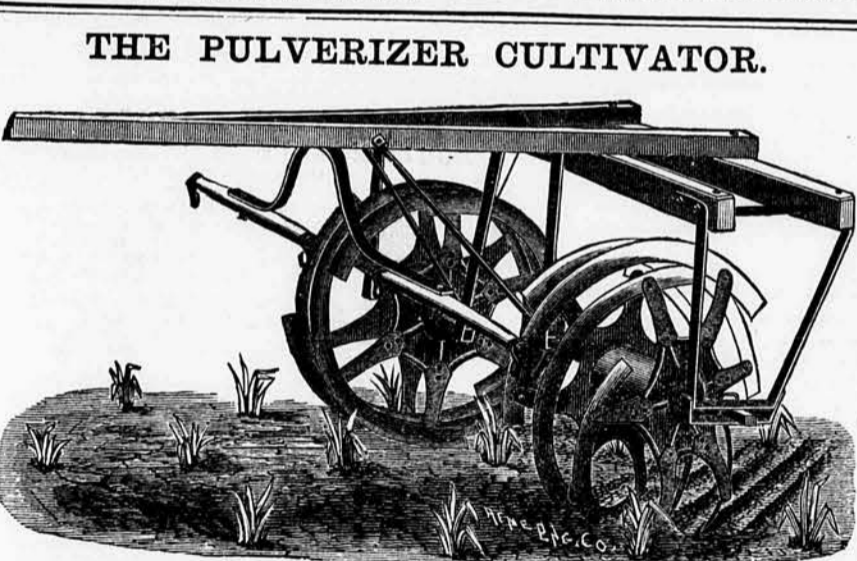
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Buy the **BEST** & save **Money.**
It has been in constant use for 14 years, with a record equalled by none. Warranted not to blow down under the Tornado with it; or against any wind that does not doable substantial farm buildings; to be perfect; to outlast and do better than any other Mill made. Send for Storm Scene Circular and Prices. Address **PERKINS WIND MILL & AX CO., Mishawaka, Ind.** Agents Wanted.

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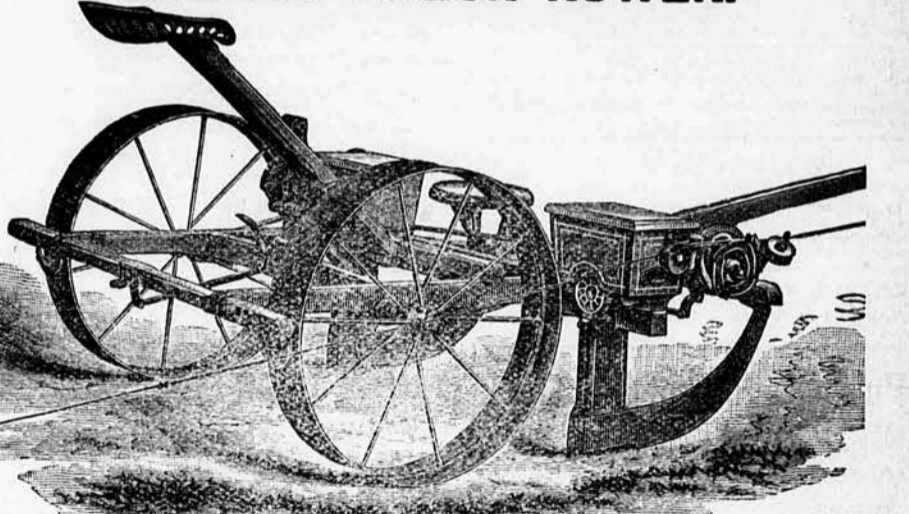
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The most promising lot I ever offered for sale. Catalogue on application. T. E. MOORE, Shawhan, Bourbon Co., Kentucky.

100 REGISTERED SHORT-HORN BULLS

For sale by the following
Breeders of Jackson Co., Mo.

Good Individuals. Good Pedigrees. Low Prices. Apply to any of the following gentlemen, at Independence, Mo.:

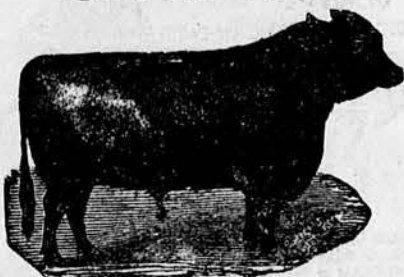
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I offer for sale on long time at low price a pure-bred recorded

PERCHERON-NORMAN STALLION, now kept by Messrs. Miller Bros., near Junction City, Kas. This is a rare opportunity to get a fine, stylish horse at such price and terms as will enable purchaser to pay for horse out of his earnings; or will exchange for Western Unimproved Real Estate. For further information, call on or address
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GRAND PUBLIC SALE!



600 HEAD

—OF—
FINE CATTLE!



LEONARD BROS.,

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MT. LEONARD, Saline Co., MISSOURI,

Will Sell at Public Auction on

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Six Hundred Head of Choice Cattle, consisting of 50 Thoroughbred Short-horns, 150 Imported and Home-bred Galloways and Polled Aberdeen-Angus, and 400 cross bred and grade animals of above breeds, males and females. The best families of the breeds named will be represented in this selection from their herds.

The sale will be made on the farms of Leonard Bros., adjoining Mt. Leonard Station, on the Chicago & Alton R. R., 75 miles east of Kansas City. Trains arrive in the morning from the east and west, in time for the sale, and depart in the evening, east and west, after sale. Special rates will be given by the C. & A. R. R., to parties in attendance and on stock purchased. Sale will be continued till stock is disposed of.

In view of the large number to be sold, and in consideration of the fact that they have all been handled by the same parties and have received the same treatment, we believe no such favorable opportunity has ever before been offered for the comparison of these different breeds. For further information and catalogues, apply to

SPANISH AND NATIVE JACKS at private sale.

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EXTENSIVE SALE OF

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SHORT-HORN CATTLE!

A. H. LACKEY & SON

—Will Sell at the—

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