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Mixed Husbandry.

Paper read before the Farmers' Institute at Ellsworth, March 13, 1885, by Rev. L. Sternberg.

If any one imagines that any fool can be a successful farmer he has only to try it to find out that to be a good farmer requires an amount of energy, intelligence and sound judgment that would insure success in any other vocation in life. No other business presses for the solution of more intricate problems, or affords so large a field for instructive experiment.

The conditions of success are neither uni-

form nor fixed. Soil, climate, latitude, elevation, transportation, and a thousand other things must be taken into account in determining the best mode of farming in any particular locality. As in most other employments. the majority of farmers without thinking out or testing for themselves the best course to pursue, do as others around them are doing. This is better than entirely to ignore the experience and methods of others. If a man comes from the east and thinks he has nothing to learn from western farmers, but has much that he can teach them, he will be apt to get left. But no farmer can afford to be a mere imitator. Every farmhas its peculiar adaptations which the farmer must observe and avail

himself of if he would secure the best re- had failures in wheat, in corn, in potatoes, sults. Nowhere is negligence and thoughtplace than on the farm. There are comparatively few really good farmers. When I see one, I feel more like taking off my hat to him than to the highest dignitary in the

In farming as in mechanical industries, there is a strong tendency towards the production of a few staples. In Virginia tobacco was crowned king at an early date, subsequently the scepter passed into the hands of cotton throughout the south. In my own county of Otsego, N. Y., on almost every farm the choicest land and all the manure is devoted to the culture of the hop. I well remember the time and place of the setting out of the first hop yard in that county, while now, the hop is the staple product of not only that but of all the adjoining counties. Yet I greatly question whether those counties are as prosperous today as if they had pursued a more mixed husbandry.

In some portions of our country wheat is the staple product. All the labor of the farm is directed to the raising of wheat. When a farmer has once adopted this course

he is apt to go right on with it though the soil begins to show exhaustion by its diminished average yield, and by the more thorough culture required to produce a paying crop. Though the wheat area of our country is immense, yet it is gradually being diminished from the effects of constant cropping while the immense production is such as often to bring the price down below the cost.

In the same locality in any portion of the

growing up into money. Even in the winter seasons, when vegetable growth is suspended, his calves and pigs should be thriving. It is poor policy to haul to market all the grain raised on a farm and leave stock to get through the winter as best they can, or to be without sufficient stock to consume all the coarser grains. It is far better to send all kinds of grain except wheat (and even wheat included, when less than 50 cents per bushel,) to market on foot than in country the climatic conditions are so varied that no crop can be relied upon as being grows up into value. Every farmer should good every year. In this region we have

The Illustration.

The illustration presented this week is a good likeness of a representative Hereford bred in the West. Thickset 2d 1543 was bred by G. S. Burleigh, Mechanicsville, lowa, and has won an enviable reputation as a good breeder and show animal. He has won the first prize in his class wherever shown, and the sweepstakes prize, when only fourteen months old, at the Iowa State Fair; also headed the herd that won first prize as the best beef breed at the same fair. A number of this family of Herefords will

> be included in the public sale to be held by Mr. Burleigh, at Kansas City, April 15.

Inquiries Answer-

Spring wheat will not do well in southern Kansas.

Before oiling any kind of leather it is well to clean it thoroughly and moisten it with wa-

Trees may be transplanted almost any time with safety, provided the weather is not too cold, and provided sufficient care is bestowed upon the work.

Cuttings may be set at any time in the spring before the buds are bursted. The soil nee is to be rich, deeply pulverized and clean. Mulching is good, though we never practiced it much with cuttings. In a dry season

it is specially beneficial.

It is not fully settled whether Johnson grass is good for Kansas. Up to this time, most of the experiments have proved to be satisfactory. We incline to think that it will grow in fayor among our farmers. It is a southern grass, but we think it can be and will be acclimated.

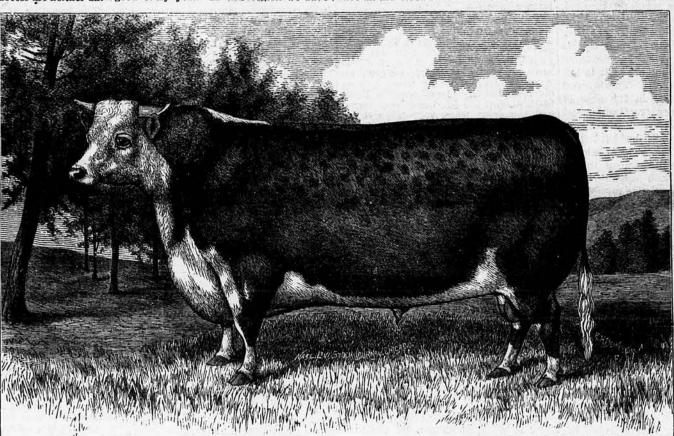
The bee can draw twenty times the weight of its body. A species of beetle can draw forty-two times the weight of its body.

The number of living specimens known in the animal kingdom is at least 300,000, of which more than nine-tenths are inverte-

There was lately described to the French Academy of Science a species of ant observed in the island of St. Thomas. A large fire having been kindled at a certain distance from the ant hill, the ants were seen to precipitate themselves into it by thousands until it was completely extinguished.

"A gentleman from this place several years ago," says the Union Bridge (Md.) Era, "accidentally threw a highly-prized piece of money into the spouting of one of our highest buildings. Not long ago, while he was standing beneath the spouting, an English sparrow dropped the coin from its mouth, letting it fall at his feet."

and the state of t



THICKSET 2D 1543 .-- Bred by G. S. BURLEIGH, Mechanicsville, Iowa.

in oats, etc. In some cases these failures less drifting with the current more out of have occurred two or three years in succes-The farmer who places his sole relision. ance on wheat or corn finds himself in a very tight place in case of failure. There is no season that will not prove favorable to one or more products of the soil. Even in the grasshopper year, when every other crop was swept away, I had a splendid rye crop which carried me through all right. Those who had relied upon other crops in general did not get their seed back. Several hundred dollars were sent me for private distribution among the sufferers. I used the last \$50 in the purchase of seed corn, giving to no man more than a peck. It was all called for as soon as it was published that any one needing it could have his peck.

> It is true the failure of that year would not have left our people so destitute had we been an older community blessed with the accumulation of years. But it is always well for a farmer to have several strings to his bow. Even in that year of greatest failure, not only did rye do well, but cattle on the range never did better; for the drier the season the more nutritious the grasses.

The farmer should always have something

the best breeds attainable that it will keep well, and not a hoof more. Too many is worse than too few. A farmer should never forget that his stock needs good shelter and plenty of water as well as a full supply of food, and that his land needs all the manure he can make. There is no soil naturally so rich but that manure will make it more productive, and well rotted manure helps hold the moisture while increasing plant food.

I frankly confess that in farming I have fallen far short of my own ideal; but then, the fact of commencing poor and having to work my way up under a heavy load of debt may be considered as some excuse for my shortcomings as a farmer. It is no small matter to get out on the naked prairie to open up a farm without the conveniences a farmer needs to make his business a means both of pleasure and profit.

"Oh, never borrow trouble,
My friend, where'er you go,
For life is but a bubble
And it ain't worth while, you know."

"Ah, well, I'll let to-morrow
Take care of itself, I vow
And the only thing I'll borrow
Is a dollar from you, now."

The boy who plays truant to go fishing, needs the rod more than the line.

The Stock Interest.

PUBLIC SALES OF FINE CATTLE. Dates claimed only for sales advertised in the KANSAS FARMER.

April 14-James Cunningham, Kansas City, Gallowa April 22-J. S. Lemon, Short horns, St. Joe, Mo. April 23 - Col. W. S. White, Sabetha, Kas., Short horns.

April 29—Geary Bros., Aberdeen Angus, Kansas City 1—Pettis County Short-horn Breeders, Sedalia, Mo 5— Cass County Short-horn Breeders, Pleasant

May 5—Cass County Short-horn
May 6—T. W. Harvey, Poiled-Angus, Kansas City Mo.
May 8—Miller & Roddick, Herefords and Polls, Kansas 'ity, Mo.
May 13, 14, 15—Jackson County Short-horn Breeders,
Kansas City, Mo.
May 18 and 19—Jas. Richardson, Short-horns, Kansas
City, Mo.
May 20—Powells & Bennett, Short-horns, Indepen-

nce, Mo. 22 and 23-Jss. E. Richardson, Kansas City, Mo. ort horns. 98—Leavenworth Short-horn Breeders' Associa June 3-Col. W. A. Harris and the Giffords, Short horns, Manhattan.

Treatment of Balls.

It is a mistake to believe that animals generally must be harshly treated. The master must establish and maintain his position, but that can and ought to be done without cruelty in nine cases of every ten. We agree with an English writer that a bull is quite as amenable to kindness as is any other animal. Firm, yet kind treatment will reduce bulls to obedience, and render them easily managed. From the age of calfhood they should be regularly handled, and accustomed to the contact of human beings. At about 1 year old they frequently become playful, and this is often mistaken for vice, whereas, when used as above recommended it is but the playfulness of youth. This is toned down by placing a ring in the nose of the bull. Whenever practicable-and there are few cases where it is not sobulls in service should be kept in a building where the milch cows are kept. Thus they become accustomed to the regular association with human beings and are as docile as the cows. Never strike a bull without reason; they have long memories, and may retaliate when least expected. If disobedient, one quick stroke is usually sufficient, and the animal knows the reason for it. A whip is the best implement to use in connection with a bull. The best way to spoil a bull is to keep him in a place by himself, to feed him through a trapdoor, and never to bring him out except when he is wanted for service. When so kept the getting him out is usually a formidable affair. So kept, he grows moody and savage, and it is to such bulls that we usually look for accidents. The attendants should never display fear of a bull. If the latter once perceives that his attendant is afraid of him, and they are quick to see the signs, the man should be replaced, or it is likely mischie! will result and the bull be spoiled. Young bulls become playful when about 12 months old; that is the time when they are beginning to want service work. At this time, if you do not keep an eye upon them, they will land the attendant a cropper when feeding, especially if they think he is not quick enough in supplying their food. For this a foolish attendant will thrash the animal, and probably he will take a stick with him every time there-after that he goes to feed it, and on every such accession the bull will come very often. toward the end, or shortly take a stick with him every time thereevery such occasion the bull will come in for a few hard whacks. This is just the way to spoil him for life, for he conceives such a hatred of the human race that he is never afterwards safe. The best cure is a ring, and the putting in of the ring is simple, and but the work of a few minutes. Place a rope around his disease is nearly always fatal; at any neck, and draw him up gently to the stoop of a gateway. Pass the rope round the stoop, and let it be firmly round the stoop, and let it be firmly held. Have ready a round steel chisel, sharpened to a fine point, the chisel being a little thicker than the ring.

This should be held in readiness by an odd, dea notten ensure long being any plain cachectic symptoms, such as anæmia, emaciation. etc., develops. In such cases the tape worms have blocked up the passage through the intestinal canal. The symptoms on the whole, however, do not show anything characteristic,

attendant; also the ring (opened), the screw, and a small screw-driver. Don't alarm the bull, but soothe him. With the fingers of the left hand, feel for and draw gently down the proper place in the nostrils, taking care to avoid the bone. With the right hand, guiding the chisel by the fingers of the left, bring the point of the chisel to the place, and pass it quickly and firmly through the cartilage of the nose. Retain the hold with the left hand, take the ring in the right, pass it through the hole made by the chisel and fasten the screw, slipping it round a few times to see that it works easily. If the rope is held firmly by one or two men, and the animal is not frightened to begin with, there is no difficulty in ringing a young bull. If driven up to the spot with blows and loud shouting, then difficulty will be experienced, for the bull will resist to the utmost of his power; the operator becomes nervous, and probably takes off a piece of the bone, or otherwise injures it, spoiling the animal for feeding for some time after that, even if no worse consequences result.

Tape-worms in Sheep.

In January last, Dr. H. J. Detmers, an Illinois veterinary surgeon, in answer to a letter of inquiry of a Colorado farmer, wrote-

The tape-worm of sheep occurs most frequently in lambs, and is known as Twnia expansa. Its head is very small and not armed with hooks; its first joints, or proglottides, those near the head, are rather small and narrow, but grow broader and larger when getting grow broader and larger when getting older, so that the oldest ones, or those faithest from the head, are very large, and the same when very old, and the worm, in consequence, very long—many measure as much as one inch across. The worm sometimes grows to an enormous length, and while young worms are much shorter, some old ones are occasionally found which measure fully 100 feet. The single joints or proglotides are more firmly connected with tides are more firmly connected with each other than in most other tapeworms, therefore the ripe joints when passing off with the excrements very seldem are single or disconnected, but usually several connected with each other in the shape of a string or tape. It is not yet definitely known in what animal or animals the sheep tape-worm passes its larvæ or seolex stage, but there is reason to suppose that it is in some species of lower animals-in-ects or snails-which pass this life in the herbage of low and wet places, or in water holes, and are taken up, and with them the worm-broad, by the sheep and lambs when eating at such low and wet places, or drinking water of such water In comparatively rare cases the same kind or tape-worm also occurs in

After the worm-brood-that is the or may be, instinctively avoid the herborn and writer containing the compact of the tape-worm—have been picked up by the lambs—older sheep either do not become as easily affected, or may be, instinctively avoid the herborn and writer contaminated with these age and water contaminated with these lewer animals. The first symptoms caused by the development of the young tape-worms usually-consist in more or or less diarrhea and gastric disorders. Afterwards, after the scolecis or embryo-heads have had time to develop in the acadesised type worms an above. in o good-sized tape-worms, an abnor-mally enlarged abdomen, cessation of hritt and growth, general anæmia manifested by an extraordinary paleness of the skin and of the visible mucous membranes, more or less rapid emaciation, very often toward the end, or shortly before death, a fetid diarrhea, constitute the principal symptoms. As the affected animal has usually more than one worm—in such cases the intestines are perfectly filled, or even blocked with tape worms, and as the worms themselves if eld mouth before the spiral selves-if old enough before the animal rate, but very few animals recover. If the tape worms present are very numer-ous, dea h often ensues long before any

different from those of other worm diseases, except that now and then, as already stated, some connected joints or proglottides will pass off with the dung. The post mortem examination and the presence of the tape-worms in the intestines, of course remove every doubt. In many cases—though in some sheep-raising districts at least—other worms, belonging to the Strongylus family, are also present, either in the lungs (Str. filaria), in the fourth stomach (Str. contortris), or in both places, and may accelerate the father than the stranger of t erate the fatal termination. Whether or not the last named worms are a frequent occurrence in eastern Colorado, I do not know. In some parts of Texas they are

a curse to sheep raising.

As to treatment, the old saying that an ounce of prevention is better than a pound of cure, applies as well to this as to most other epizootic diseases. I would therefore advise: (1) To burn in the winter, if possible, the whole range which is to be used as spring and sum-mer pasture for the lambs, and thus to destroy everything on that range that may harbor the worm-brood. (2) To dig wells, wherever it can be done; to water all the sheep from these wells, and to keep them away from all low and wet places, pools of stagnant water, and even from slow and sluggish streams; for all these places, most likely, harbor the above animals of the worm-brood or worm-embryos. (3) To pasture all lambs during spring and summer, if possible, on a range that is not infested, or, in other words, that has not been run over by last year's lambs in the latter part of summer, in the fall, and in the winter. As to a treatment of the animals al-

ready affected it is advisable to provide for them at the time at which some of them commence to scour (have diarrhea), easy of access, some licks comrnca), easy or access, some ficks composed of common salt, and powdered seeds, flowers, and leaves of Tanacetum vulgare, to which, if desired, a little tar may be added. If afterwards, the tapeworms, notwithstanding, should develop, it will be necessary to subject every single account to a special rotal treatment. single animal to a special retail treatment, that is, to give to each animal (lamb), according to age and size, from two to three and a half drachms of kousso, pulo, flor, brayerac, anthel, minthicæ, with enough water to make a drench. While thus treated, and until the tape-worms have all passed off, the lambs should be kept in an enclosure, where afterwards the excrements and the tape-worm convolutes can be burned.

Oleveland Bays For General-Purpose Horses

Regarding Cleveland Bays a correspondent of the *Breeders' Gazette* says that there is a large number of horsebreeders who are not fully satisfied with any of the breeds now permanently be-fore the public, so far as they have tried them, for the production of a large rangy, stylish horse, suitable alike for the work of the farm and the pleasure of the drive. The draft is too big; the thoroughbred is too light, and the trot ter, while not large enough matures too slowly and takes too much money to develop. The medium weight English Shire produces the model of an all-work horse-low-down, compact, blocky and active, with good form and splendid legs and feet; but he don't quite till the bill for the fastidious lover of horses who admiring the blood-like appearance of the thoroughbred and the road qualities of the trotter, requires the weight of a medium draft. Just here comes the Cleveland Bay, combining in remarka-

ble measure the last named qualities.

It is now pretty generally known among horsemen in America that the Cleveland Bays as originally bred were used on the mail coaches of England. They weighed 1,600 and 1,700 pounds, and were remarkable for their strength and very age also for their strength. and endurance, as also for their ability to pull those ponderous vehicles at a good round road gait. During the past fifty years their size has been considera-bly reduced by a fresh infusion of the bly reduced by a fresh infusion of the blood of the race horse, which has effected an increase in speed without materially reducing their strength, the reduction in size being more than counterbalanced by increased nerve. They may very properly be called the Royal Horse of England and, in fact, of Europe, as the strongest competition American buyers have to encounter is from the agents of the crowned heads and wealthy nobility and gentry who come annually to England to procure the finest specimens of the breed, and which may be seen attached to the handsome st may be seen attached to the handsome st equipages upon the fashionable drives in every city in Great Britain and Europe.

with one purpose in view, has thorwith one purpose in view, has thorogly established the breed, and their strength of blood is attested by the remarkable uniformity with which the general characteristics of the breed—color, form, style and quality,—are transmitted even to their grade off-spring, and any one who will take the trouble to look over a large number of these borses—see as I have recently in these horses—see, as I have recently, in one stable nearly seventy-five specimens of the breed, and note their uniform size, color and form—will be convinced, as I was, that they are the coming general-purpose horse of America.

Stock Notes.

Feed so as to make the most money, and to do this feed to make the greatest size in shortest time at least expense.

The poultry may be a source of con-sinerable profit, or an intolerable nuisance, according to the way they are managed and the treatment they receive.

The study of economy in all things, especially in feeding to obtain the largest results with the least expenditure of food, is a most profitable employment. ment.

Prepare a plot of ground now for turnips, beets or other root crops to feed the stock another season. They are absolutely necessary to highest success in modern farming.

In feeding large numbers of stock together, watch that the stronger ones do not crowd the weaker ones away and get nearly all the feed. Always give the weak and thin stock a little extra attention and feed.

The breeders of long-wools do not need to trim the toes of their sheep, but the Merino men must pay attention to this matter, or there will soon be two or three in the flock with sled-runner toes always lagging behind and getting poorer each day. Trim their feet, and they will travel up with the flock.

No one who has not tried raising and feeding turnips to sheep can have a full appreciation of the benefit derived from this cheap food and in the increased thrift of their stock. There can be no doubt of the advantage of the English method of feeding compared with ours, if we compare their immense fat mutton with ours; and in all the feeding districts of the English provinces, turnips are fed in immense quantities.

The Merino is the most hardy consti-tutioned breed of sheep, and for the purposes of the average shepherd this is an all-important point. There is every reason to believe that they must form the basis for the much talked of sheep for the future, on account of their extreme hardiness. The sheep that shears a good fleece furnishes a fine carcass and can stand the rough usage to which sheep are very often subjected, will have a large percentage of Merino blood in its veins.

Western sheepmen are becoming more and more convinced of the importance of keeping their stock in small flocks, and that it is more profitable to raise sheep in pastures than it is to keep them under herd; and sheepmen are now, in portions of the West, fencing their sheep ranches into small tracts. This will certainly simplify the question of the profitableness of sheep raising in the West, for several reasons; but the most important one, perhaps, is that it will enable many more to be pastured on the same amount of land. This is owing to the fact that where sheep are owing to the fact that where sheep are kept in large flocks they trample down and waste much more herbage than they eat, and that by keeping them in small bunches this can be almost en-tirely avoided.

If your horses have sore shoulders, scratches, cuts or open sores of any kind, use Stewart's Healing Powder.

An intoxicated husband on reaching home seized an umbrella from the rack, opened it, and proceeded to his wife's bed-room. "Are you crazy?" exclaimed the grieved and indignant matron. "No," replied he in an unsteady voice, "but—hic—I supposed there'd be a storm, so I've—hic—come prepared for it."

Consumption Cured.

An old physician, retired from practice, having had placed in his hands by an East India missionary the formula of a simple vegetable remedy for the speedy and permanent cure of Consumption, Brenchitis, walthy nobility and gentry who come unually to England to procure the inest specimens of the breed, and which may be seen attached to the handsom stequipage's upon the fashionable drives on every city in Great Britain and Europe.

A century's breeding in one direction,

In the Dairy.

The Creamery in Kansas.

A paper read by Jas. F. Crofoot before the Farmers' Institute at Ellsworth, March 13, 1885,

(Concluded.)

I claim that through the lessening of the expenses of the dairyman and the increase in price received for his dairy product, he can afford to patronize a creamery where he could not afford to make butter for market. The creamery business has advanced far enough in this State to prove that Kansas is naturally well suited for the business. We have cheap pasturage and cheap grain which properly used will yield large quantities of choice butter, and I venture to assert that there is not a State in the Union where dairying can be done at a larger profit than in Kansas. The bad effect of the extreme heat of some of our summer days on the handling of milk and cream, is overbalanced by the purity of the atmosphere. Cream can be handled from long distances without injury.

It might be asked-Why is it, if the

creamery business is such a good thing, that so many of the creameries started in Kansas are now idle? I will en deavor to answer the question. They were started just at the close of a prosperous series of years in the dairy business, and at the beginning of the contest between the cow and the hog to determine which is the most suitable for dairy purposes, and also at the beginning of a period of very low prices for dairy products. What has made it doubly hard to establish the business here is the fact that but few of the patrons of the creameries came from dairy countries, and they acted on the principle that it is the food used that produces milk and butter, the cow acting simply as a machine to convert our grass and corn into the form of milk from which we make butter. Therefore the cows are turned out to grass in the spring and milked as long as they can make milk with the help of nature alone, which is during the portion of the year when dairy products bring the lowest prices, and generally extends about four months. About the 1st of September the natural grasses dry up, the cows shrink their milk and are soon allowed to go dry and are turned out to winter, provided the winter be not too severe; if so, to die. And this is called dairying. The result is, that such dairymen come to the conclusion that because the creamery has not paid them forty or fifty dollars per cow for cream, the business is a failure. In this country the creamery is not only in its infancy, but the dairy business is also in a very crude state of development, and this period of oleo and low prices has a tendency to blast the infant buds. If the prices of 1881-2 for dairy products had continued till the present time, Kansas would to-day be far on the way to a leading position as a dairy state. which she already holds in wheat, corn, wool and meat production. And the time is coming when she will yet take her proper place as a dairy State.

I do not believe there has been an over-production of butter during the last two years. Were butter alone sold as butter, prices would have been much better. I believe that butterine, oleomargarine, etc.. are now seeing their best days. They are a base fraud, not only on the dairyman, but also on the consumer. Not one person in fifty who is using these adulterations know that they are doing so, nor would they eat them if they knew it. The only partics tenefited by them are the manufacturers and the middle-men who make large profits by handling them. Will much corn.

this small class be allowed always to blast one of the most important industries of the country, and also to prevent thousands of people from eating butter instead of whatever they see fit to feed them on in its place? I think not. Thousands of the citizens of Illinois are now demanding of their Legislature that this wrong be righted. The Legislature of Colorado is also being asked in a strong voice for justice in this matter. And I do not believe that this storm which is rising will be hushed until butter is butter and grease grease to be sold and used for what they are. Then Kansas will take her proper place among the dairy States of the Union.

In conclusion, I will say if the people would handle the dairy as it should be handled, and compare the result fairly with the production of grain for market. they would find that even with the low prices at present prevailing, the dairy would be ahead. They would also keep up the fertility of their land. They must remember, too, that every kind of business has its seasons of prosperity and depression, and if they stay with it during the period of depression, they will be prepared to profit by the better times when they come, which they are sure to do. It takes time to get a firstclass dairy of cows together and it takes experience to learn to handle them to the best advantage and the greatest

The American Farmer says: points of a good cow are a robust constitution, a good appetite, large milking capacity, long milking tendency, rich milk, and an easy milker with a good disposition. She should be a regular breeder, and her calves should possess her good qualities. After these come the points of shape, color and general appearance, along with the pedigree, which latter is of more or less importance as she is thoroughbred and kept ance as she is thoroughbred and kept for breeding more than dairy purposes. If the former, it is the most important of all her attributes. Every cow has more or less of these qualities, coupled more or less of these qualities, coupled with some objectionable features, and it is a capital exercise to write out the good and bad qualities of every cow in the herd and compare them on paper. It will aid you materially in judging the animals in your herd. If you classify them you will always know which should be parted with first, and save many a subsequent regret.

At Public Sale.

In another column will be found the attractive advertisement of a public sale of Hereford, Galloway and Angus bulls, to be held at Riverview Park, Kansas City, on Friday, May 8th, 1885. These bulls are young and of the best strains of blood to be found in England and Scotland, and it will pay our readers to make a note of the sale. Catalogues can be had by addressing Miller & Roddick, St. Denis, Baltimore county, Maryland.

A peculiar article produced by the negroes of Georgia is called by them persimmon bread. Five pounds of it, it is said, will make nearly a barrel of agreeable and non-intoxicating beer. The persimmons are gathered when thoroughly ripe, the mass is kneaded till it is of the consistency of bread dough, made into a cake, and then put into an oven and baked. It will keep all winter and can be used until late in the spring.

Trees.

Those desiring anything in the line of shade and ornamental trees, as well as fruit trees of all kinds, would do well to call on D. C. Burson and examine a choice variety displayed on lot 270, Kansas avenue, nearly opposite the Kansas Farmer office.

It has been proven by actual experiment that beets or turnips can be raised, lifted and stored for six cents per bushel. At this cost they certainly are a profitable food for sheep.

Vitality of Great Men

Is not always innate or born with them, but many instances are known where it has been acquired by the persistent and judicious use of Dr. Harter's Iron Tonic.

Never feed much corn to young horses. It only supplies heat and fat. Growing stock needs bone- and muscle-forming foods. Many a colt has been injured for life by getting too

BREEDERS' DIRECTORY.

Cards of three times or less, will be inserted in the Erced-or's Directory for \$10,00 per year, or \$5,00 for six months; each additional time, \$2,00 per year. A copy of the paper will be sent the advertiser during the continuance of the

CATTLE.

CEDAR-CROFT HERD SHORT HORNS.—E. C Evans & Non, Propr's, Sedalta, Mo. Youngsters of the most popular families for sale. Also Bronze Tur-keys and Plymouth Rock Chickens. Write or call at office of Dr. E. C. Evans, in city.

War. D WARREN & CO, Maple Hill. Kas., im-porters and breeders of Red Poiled Cattle. Stock for saie. Correspondence solicited. R. R. station, St. Marys, Kas.

DEXTER SEVERY & SONS Le and, Ill, breeders for sale, both sexes. Correspondence invited.

JOHNSON & WILLIAMS, Silver Lake, Kas., breed-ers of Thoroughored Short-horn Cattle. The herd numbers thirty head, with a Rose of Sharon bull at head.

LOCUST RETREAT FARM. Bacon & Campbell, Manchester, St. Louis Co., Mo., breeders of HOLSTEIN CATTLE and PLYMOUTH RO K FOWLS Holsteins excel in milk, butter and beef. They are the all-purpose cattle. First-class stock for sale. Plymouth Rocks are the farmer's fowl. Pair, \$3.50; trio, \$5.00; eggs. \$1.50 for 13.

BROAD LAWN HERD of Short-horns Robt. Pat-ton Hamin, Kan, Prop'r. Herd numbers about 120 head. Bulls and Cows for sale.

A LTAHAM HERD W. H. H. Cundiff. Pleasant Hill, Cass Co., Mo., has fashionable-bred Short-horn Bulls for sale. Among them are two Rome of Sharons and one aged show bull. None but the very best allowed to go out from this herd; all others are cassuated.

U. P. BENNETT & SON, Lee's Summit, Mo., breed-ers of Thoroughber Shour-horn Cattle, Couswold sheep, Berkshire swine, Bronze tarkeys and Plymouth Rock chickens In-pection invited.

POWELL BROS., Lee's Summit (Jackson Co.) Mo., breaters of Short-horn Cautle and pure-bred Po-land-thing swine and Plymouth Rock Fowls. Stock for sale. Mention tails paper.

W. A. POWRLL, Lee's Summit, Mo., breeder of the Poverty Hill nerd of Thoroughbred Short-horn Cattle. Inspection and correspondence solicited.

WALNUT PARK FARM. Frank Playter, Prop'r. Wainut. Crawfort Co., Kas. The largest herd of short-horn cattle in Southern Kansas. Stock for sale. Correspondence invited.

A. HAMILTON, Butler, Mo., Thoroughbred Galloway bulls for sale.

J. W. LILLARD, Nevada, Mo., Breeder of Thornough Country built at nead of herd. Young Stock for tale, Satisfaction guar-

OAK WOOD HERD, C. S Eichholtz, Wichita, Ka. Live Stock Auctioneeer and breeder of Thorough-bred Short-horn Cattle,

Mereford Cattle.

SHOCKEY & GIBB, Lawrence, Kansas, breeders and importers of Hereford cattle. Choice thorough-breds and high-grades of both sexes always for sale.

SARUOXIE HEREF)RD HERD, J. Gordon Gibb, Lawrence, Kas., importer and breeder of Hereford Cattle. Stock for saie

CATTLE AND SWINE.

H S. FILLMORE, Green Lawn Fruit and Stock Poland-Chiua and Berkshire Swine. Stock for sale.

HAVE 16 voung pure bred Short-horn Rulls, 16 Cows and Heifers a few choice Poland-China Soars and Sows-the latter bred for saile. Send for new catalogue H. B. Scott. Sedalia, Mo.

GLENVIEW FARM. G. A. Laude. Humboldt, Kas., breece Short forn Cattle and Poland China Swine. A teo Saddle and Harness Horses.

SHORT-HORN PARK, containing 2,000 acres, for sale. Also, Short-horn Cattle and Registered Poland-China. Young stock for sale. Address B. F. Dole, Canton, McPherson Co , Kas.

W CODSIDE STOCK FARM, F. M. Neal, Pleasant Bun, Pottawatomie Co., Ks., breeder of Thor-oughbred Short-horn cassie, Cotswold sheep, Poland-China and Berkshire hogs. Young stock for sale.

D.B. A. M. EIDSON, Reading, Lyon Co., Kas., make a specialty of the breeding and sale of thorough bred and high-grade Short-horn Cattle, Hamblet-niar Horses of the most fashionable strain, pure-bred Jer-sey Red Hogs and Jersey Cattle,

COTTONWOOD FARM HERDS,

J. J. Maile, Manhattan, Kansas Breeder and shipper of SHORT-HORN CATTLE and SERESHIES SWINE. Orders promptly filled by ex-press. The farm is four miles east of Manhattan, north

SHEEP.



E. COPLAND & SON, DOUGLASS, KANSA

Breeders of Improved American Merino Sheep. The flock is remarkable for size, constitution and length of stap'e.

Buck a specialty.

Pegis er-d Merino Sheep, Bronze Turkeys, Light Beshmaand Plymouth Rock fowls. Eggs for hatch-inc. Ca'slogue free. R. T. McCulley & Bro., Lee's Summit, Mo.

B. BOTHWELL, Breckenringe, Mo., has 1,100 T. Merino rams for sale. 250 of them are registered. His seven best stock rams shear from 27 lbs. to 33 los., reigh from 145 lbs. to 180 lbs.

C. F. HARDICK & SON, Louisville, Kansas, breed

REGISTERED AMERICAN MERINO SHEEP, Having good constitution and an even fleece of fine

Fine wool a specialty.

Come and see our flocks or write us.

A. F. WILLMARTH & CO. Ellsworth, Kas., breed-Head" 845 thead of flock. Choice rams for sale. Sat-lafaction guaranteed.

SWINE

S. H. TODD, Wakeman, Ohio, breeder of Recorded Premium Chester White Swine and Imported Shropshire Down Sheep. Send for circular with price list and particulars. It pays to get the best.

F. M. ROOKS & CO., Burlingame, Kas., importers, and breeders of Recorded Poland China and Large Berksnire Swine. Breeding stock the choicest from the best hervis in seven States. I have special rates by express. Write.

J. A. DAVIDSON, Richmond, Franklin Co., Kas., breeder of Poland-China Swine. 170 head in herd. Recorded in A. and O. P.-C. R. Cail or write.

CATALPA GROVE STOCK FARM. J. W. Arnold, Louisville, Kansas, breeds Recorded

POLAND-CHINA SWINE AND MERINO SHEEP.

The swine are of the Give or Take, Perfection, and other fashionable strains. Stock for sale in pairs net related. Invite correspondence or inspection of stock

ROBERT COOK, Icla, Allen county, Kansas, importer and breeder of Poland-China Hogs. Pigs

POULTRY.

GEO. H. HUGHES, North Topeka, Kas., 14 first prizes (Felch and Pierce, judges, on W. F. B. Spanish. P. Rock cockerels, \$2.50. Eggs, \$3 for 13; 26 for \$5. Prepared shell, 100 lbs, \$3. 12 egg baskets, 90 cts. Poultry Monthly, \$1.

L GGS FOR SALE—From Light Brahmas, Buff Co-chine and Flymouth Rocks, 13 for \$1.75; 28 for \$3. Also Fekin Duk eg.s, 11 for \$1.75; 22 for \$3. Also Emdrin Gesse eggs 6 for \$2: and Bronze Turkey eggs 12 for \$3. w. J. McCoim, Waveland, Snawnee Co., kas.

BRONZE TURKEY EGGS-\$3.50 per 12. Our Tom weights over 40 pounds. Ply mouth Rock eggs, \$1.50 per 13 H. V. Fugsley, Plattsburg, Mo.

PAIRVIEW POULTRY YARDS. Mrs. G. Taggart, Parsons. Kas, breeder of L. and D. Brabmas, B. Leghorns, Houdans, Plymouth Rocks, Langshans, P. Cochins, G. L. Bantams, Wyandottes and B. B. R. Games. Send for price list.

W.M. WIGHTMAN, Ottawa, Kansas, breeder of high class poultry—White and Brown Leghorns and Bun Cochins. Eggs, \$2.00 for thirteen.

N. R. NYE. breeder of the leading varieties of Choice. Poultry, Leavenworth, Kansas. Send for cir-

N EOSHO VALLEY POULTRY YARDS — Establish-d, 1870 Pure bred Light Brakmas, Partridge Cochins, Plymouth Rocks, Egg-in season, Stock in fall, Write or prices. Wm. Hammond, box 180, Emporia, Ka.

ONE DOLLAR perthirteen for eggs from choice Ply-mouth Rock fowls or Pekin ducks. Plymouth R ca co kerels \$2 each. Mark S. Salisbury, Box 931, naneas City, Mo.

S. R. EDWARDS & BRO., Emporia, Kas., breeders, of hign-class Piymouth Rocks and Partridge Coching, Eggs, \$2 per 13. Correspondence cheerfully answered.

DIVERSIDE POULTRY YARDS.—Plymouth Rock and Partridge Cochin fewis for sale, and eggs dur-ing the hatching season. Watson Randolph, Emperia, Kansas.

CROUND OYSTER SHELLS FOR SALE. Five pounds, 5 cents per pound; 25 pounds, 4 cents per pound; 200 pounds, 3% cent sper pound. It is the best ego-producer known. Give it a trial and be convinced of its merits. Also Pure Plymouth Rock Eggs for sale—\$1 for 13; \$3.50 for 28. G. H. Flutham, 71 Kitue avenue, Topeka, Kas.

MISCELLANEOUS

MERINO SHEEP, Berkshire hogs and fifteen varies ties of high-class poultry of the best strains Bucks a specialty. Harry McCullough, Fayette, Mc.

A J. CARPENTER, Milford, Kansas, breeder of Thoroughbred Poland-China Swine. Stock fee Sale. Inspection and correspondence invited.

PROSPECT FARM.—H. W. McAfee, Topeka Kaa.
For sale cheap in registered Short horn bulls, I to a
years old. Also, Clydesdale horses.

REPUBLICAN VALLEY STOCK FARM.—Heart Avery, Wakefield, Clay Co., Kas., breeder of Par-cheron horses. Stock for sale. Send for catalogue.

S. A. SAWYER, Manhattan, Kaa., Live Stock Amstronomer. Sales made in all the States and Canada, Good reference. Have full sets of Herd Books. Osseplies catalogues,

HEREFORD CATTLE

THOROUJHBRED BULLS and HIGH GRADE BULLS and HEIFERS for sale. Inquiries prompa-ly answered.

WALTER MORGAN & SON. Irving, Marshall Co , Kansas

THE LINWOOD HERD

SHORT-HORN CATTLE



W. A. HARRIS, Linwood, Kansas,

W. A. HARRIS, Linwood, Kansas,

The herd is composed of Victorias, Violets, Lavenders Brawith Buds, Secrets, and others from
the cel-brated herd of A Cruickshank, Sittyton, Aberdeenshire, Scotland, Golden Drops, and Urys, descended from the r-nowned herd of S. Campbelli
Kineliar, Aberdeenshire, Scotland, Also Young
Marys, Young Phyllises, Lady Elizabeths, etc.
Imp. Baron Victore 42824, bred by Cruickshank, and
Imp. Double Gloster head the herd.

35 Linwood, Leavenworth Co. Kas. is on the U. P.
R. B., 27 miles west of Kansas City. Form joins station. Catalogues on application, Inspection invited,

Gossip About Stock.

No general round-up by the Cherokee Live Stock association will take place this spring. The work will be done by the neighborhood

Geo. W. Penney, Newark, Ohio, has engaged a page in the forthcoming volume of instration of his three recently imported Berkshires.

Walter C. Weedon, Kansas City, Mo., has prepared a little pamphlet containing some correspondence of much value to persons interested in polled cattle. We suppose he will send to any person that so requests.

Inglewood is a new town to be built on the south line of the State in Clark county, about fifty-five miles south of Dodge. It is to be a cattle town, has good financial backing and expects to have a railroad the present year.

The Geary Bros., of Canada, this week advertise their forthcoming sale of Aberdeen-Angus cattle to be held at Kansas City April The Geary Bros. are so well known as first-class breeders that all interested in getting good Angus cattle will be present.

The Short-horn breeders of Lafayette, Saline and Pettis counties, Missouri, will hold their Central Missouri series of Short-horn sales April 28, 29, 30, and May 1, at the places designated in their advertisement, and will sell 300 good Short-horns. Send for their catalogue.

The American Clydesdale Association will hold its next annual exhibition at Chieago in connection with the Illinois State Fair. In addition to the liberal premiums to be given in the pure bred classes, the association offers premiums also for best half blood Clydes, by recorded sires.

Pleuro-pneumonia among cattle on the asylum farm near Fulton, Missouri. Several of the diseased animals have been killed, and careful examinations of the infected lungs made by competent veterinary surgeons from Kansas City, and also by the government veterinary surgeon from Washington, D. C. All the surgeons join in an emphatic statement as to the nature of the disease, and all pronounce it contagious pleuro-pneumonia.

A Cheyenne dispatch, of date March 26 says: The Leader to-day completes a series of interviews with leading stock growers of Colorado, Wyoming and Nebraska, gathered here to attend the annual meeting of the Stock Growers' Association. The parties interviewed represent over a million cattle, ranging at widely separated points. All agreed that the past winter had been the finest for many years for both range and trail cattle. The losses will be below the average, and it is estimated variously from 1 to 5 per cent. The larger portion of the losses were trail cattle reaching ranges late in the season.

Referring to the defensive powers of polled cattle, a correspondent says: Those of us who have handled hornless beasts know that the sight of a dog will arouse warlike demonstrations on the part of the muley quicker than anything else, and it is an acknowledged fact, although peaceable by nature, when it does come to the tug of war a muley will thump the everlasting daylights out of anything that wears horns and hoofs. Taking these two facts into consideration, it is reasonable to suppose that the howling wolf and the screeching covote of the wild west will quickly learn to respect the butting bump on the malletshaped muley head.

We would call attention this month to the advertisement of Mr. G. S. Burleigh, of Meknown, has long been a breeder of the faintroduce Herefords in Iowa and adjoining States. His herd contains many prize-winners. Mr. Burleigh's cattle will be sold at public auction in Riverview Park at the stock yards in Kansas City, on the 15th day of April. The catalogue of the sale can be procured by application to him at Mechanicsville, Iowa. There will be sixty head of cattle offered, descended from such old and reliable strains as Lord Bateman, Lord Berwick, P. Turner, Aaron Rogers and others. Those wishing to buy Herefords should not neglect to write at once for a catalogue so they can pick out what they would like. A two-year-old bull "Emperor 2d" 12435,

fine animal. This sale will come at a very convenient time to buy cattle, as grass will He gave as his opinion that "California be good enough to turn them out on pasture about as soon as they can be shipped home.

The regular fourth semi-annual meeting of the Cherokee Strip Live Stock associa the American Berkshire Record for the il- tion was held at Caldwell last week. The attendance was not large, but such gentlemen as were there meant business and proceeded to transact it at once. The meeting was called to order by President Miller at 10 a. m. He then delivered a short address congratulating the stockmen and members of the association upon their good fortune in not having lost all their cattle during the past winter. He spoke at length concerning the investigation of the lease by the senate committee this winter, and stated that the board of directors had endeavored to discharge their duty to the association in the matter and pl ce the matter of the lease fairly and truthfully before that committee, that a sub-committee from the same body would visit this country during the coming summer for the same purpose, and that they would be called to Washington. The old board of nine directors was re-elected.

From the Kansas Cowboy we take the following: "Geo. Anderson returned from his range on the No-Man's Land, last Tuesday. He says his cattle are thin but healthy. Only a few have died. The deaths gener ally in the neighborhood among cattle have been confined to through Texans.-Brinton & Carl, on the Pawnee, lost a number of horses during the past winter. They died from loco poisoning instead of poverty or exposure. They have lost none for two months past, the horses having been enclosed in pastures and fed during that time. -Nearly all of the stock ranges south of the A. T. & S. F. railroad in Kansas, have been destroyed by the location thereon of settlers, and in a few more months there will not be a range left in this section, of sufficient dimensions to maintain a hundred head of cattle. The stockmen are seeking new locations or making arrangements for the disposition of their herds.-The Comanche Pool have about 300,000 acres of leased lands in the Indian territory, adjoining Kansas. There are 40,000 head of cattle in this pool, which are held in the Indian territory and in Comanche county, Kansas. As the range in Comanche county is being rapidly taken up by settlers, the cattle of the pool in that county are to be removed to the Indian territory and the number of cattle reduced to 20,000. The north line of the range is to be fenced, to prevent the tresspassing of cattle on the lands of settlers in

Silk Culture.

Kansas Farmer:

Kansas

The warm spring weather is so near at hand when the genial rays of the sun and the gentle showers will unfold the leaves and flowers so carefully hid away during the long cold winter months, that those who are contemplating raising the "beautiful and beneficent silk worm" should at once supply themselves with the seed (eggs) if they have not already done so, either for experiment or profit. It is the wisest course to devote one season to learning thoroughly the business, not that there is anything very intricate in raising a crop of silk worms, but everything to a certain extent is intricate, in an occupation of which we have no knowledge; whereas one season of experiment will make us perfectly familiar with

ment will make us perfectly familiar with all the details.

There has been so much said through the medium of your valuable paper that it would seem further advice would be useless; but there are many who do not comprehend the necessity of sending for the eggs early in the season, and they leave it until the very last moment, when it would have been wiser to have sent during the winter. But in process of time this will be learned, as well as many more important facts connected with the industry.

There is a short time left for those who wish to send in their orders for eggs and nanicsville, Iowa. Mr. Burleigh, as is well prehend the necessity of sending for the mous "White faces," and has done much to until the very last moment, when it would

wish to send in their orders for eggs and book of instruction, which will be carefully sent, selecting the coolest day for transportation. Should the eggs hatch before the leaves of osage or mulberry are out, I will repeat what has been said previously, that the young worms will grow for some time on lettuce leaves, or the wild dandelion; the latter we found a success last spring; in all cases it must be free from moisture. Not long since a representative of the Na-

will be sold, that is reported to be a very tional Silk Gowers' Association passed through this State enroute for California. would be a giant competitor with any country in the production of fine silks and the silk worm." Arrangements are being made by eastern capitalists for the establishment of a colony of Italian silk raisers near the town of San Jose. If Kansas was as wide awake to her interests in this industry, possibly that representative would not have passed through this State, but would have ingered and learned something of our great facilities for producing silk. No State has any better; yet others are far ahead of us in this interest. The State Fair should be awake to this industry; they offer premiums on all sorts of productions of the farm, garden and household; but nothing for the finest display of cocoons and manufactured silks. Why is this? If the State ignores it of course the people will. When "she fos-ters it as a nursing mother," the people will believe in it. Send in your orders at once, and make a fine showing of the product at the next State and county fairs, premiums or no premiums.

MARY M. DAVIDSON, Silk Culturist. Junction City, Kas.

Kansas Fruits.

At a recent meeting of the Douglas County Horticultural Society, a list of approved fruits for Kansas was voted upon and adopted. A committee of five was appointed to report a list to be recommended, and the following is the list of apples and stone fruits recommended for general cultivation in Kan-

Summer Apples. — Early Harvest Red June, High Top Sweet.

Summer and Fall Apples.—Cooper's Early White, Early Pennock, Keswick Coddling, Maiden's Blush, Lowell, Rambo, Ortley.

Late Fall and Early Winter Apples.—Jonathan, Grimes' Golden, Baldwin, Rome Beauty.

Beauty,

Winter Apples.—Winesap, Stark, Ben
Davis, Missouri Pippin, Huntsman, Smit'hs
Cider, Minkler, Janiton, Gilpin, Willow

Cherries.—Early Richmond, English Mo-

Peaches.—Amsden, Alexander, Old Mixon, Heath Free, Heath Cling, Hale's Early, Lemon Cling, Stump the World, Crawford's

Early.

Plums.—Wild Goose, Miner, Green Gage, Plums.—Wild Goose, many,
Yellow Egg.
Peurs.—Duchess, Seckle, Bartlett, White

oyenne. Quinces.—Orange Champion. American Apricots.—Early Golden, Moor-

park.
Russian Apricots.—Griesa, Byram, Dr.
Evatt, Prieb, Smith, Remer.
Grapes.—Concord, Moore's Early, Elvira,
Pocklington, Martha, Worden, Missouri Risling.

The committee, including the President and Secretary, offered the following list of small fruits, which was unanimously adopted by the Society:

Blackberries.—Kittatinny, Snyder. Goseberries.—Houghton Seedling. Currants.—Red Dutch, White Dutch.

Red Raspberries.—Turner, Shaffer's, Re-Black Raspherries.—McCormic, Hopkins,

Souheran, Smith's Iron-Clad.

Strawberries - Crescent, Charles Downing, Miner's Prolific, Capt. Jack, Glendale,

Windsor Chief. Every farmer who reads the above ought to preserve the list. Douglas county fruit growers know what they are talking about What they recommend is good.

Wabash Change of Time.

The new change in time of the St. Louis trains is a great accommodation to the traveling public. The morning train now leaves

Kansas City.

We call the special attention of the many readers of the FARMER to the Central Missouri Series of Short-horn Cattle Sales, to be held as follows: Marshall, Mo., April 28; Higginsville, Mo., A pril 30, and Sedalia, Mo., May 1. All desiring good cattle would dowell to correspond with the parties named in the advertisement of the Series, and to attend

Condition of Trade.

The New York Shipping and Commercial list of March 18th has the following encouraging report on the prospects of business at the great commercial emporium:

aging report on the prospects of business at the great commercial emporium:

"The threatened disturbances of last week have disappeared, and this week opens with the volume of trade not only fairly active, but progressive, as it should be at this season of the year. The conservative course thus far pursued by the new administration is strengthening public confidence as to the sincerity of the claims made in its behalf; there is nothing to arouse apprehension with respect to the future, so far as the material prosperity of this country is concerned; and after struggling for a year through the dangers of shrinkage and depression, we seem to be gradually approaching the open sea that is free from hidden rocks and sunken shoals. The eastward movement of flour, grain and provisions last week is not only largely in excess of the corresponding date last year, but is nearly equal to that of 1883; the railroad earnings for February show but a trifling decrease, considering the interruption of traffic from snow and ice; the xports of wheat and cotton for the crop year from the whole country continue in excess of last year, and the surplus of idle money at this center is slowly melting away. Furthermore, the distributive movement of domestic trade is increasing in many departments, and while dealers do not report an active demand, the absorption of supplies has been sufficient to prevent accumulation. These are the salient features of the situation, and they are not without significance; neither are they neutralized by the obvious, but less important, obstacles that continue to im sede more rapid progress. With respect to wheat, reliable returns recently published show that an average of 32 per cent. of last year's crop remained in farmers' hands on March 1st, 1884, showing an increase this year of 55,000,000 bushels more than in 1883, it is evident that the exports and consumption have made considerable inroads upon our surplus of production. If the ab-orption by export and consumption continues relatively as large until "The threatened disturbances of last week

The attention of our readers is called to M. O. Keeffe's advertisement of Jerusalem artichokes for hog feed, in another column.

A HOME DRUGGIST

TESTIFIES.

Popularity at home is not always the best test of merit, but we point proudly to the fact that no other medicine has won for itself such universal approbation in its own city, state, and country, and among all people, as

Ayer's Sarsaparilla.

The following letter from one of our best-known Massachusetts Druggists should be of interest to every sufferer:—

RHEUMATISM, "Eight years ago I had an attack of Rheumatism, so severe that I could not move from the bed, or dress, without help. I tried several remedies without nucli if any relief, until I took AYER'S SARSAPARILLA, by the use of two bottles of which I was completely cured. Have sold large quantities of your SARSAPARILLA, and it still retains its wonderful popularity. The many notable cures it has effected in this vicinity convince me that it is the best blood medicine ever offered to the public.

River St., Buckland, Mass., May 13, 1882.

SALT RHEUM. GEORGE ANDREWS, overseer in the Lowell was for over twenty years before his removal to Lowell afflicted with Salt Rheum in its worst form. Its ulcerations actually covered more than half the surface of his body and limbs. He was entirely cured by AVER'S SARSAPARILLA. See certificate in Ayer's Almanae for 1883.

PREPARED BY Dr. J. C. Ayer & Co., Lowell, Mass. Sold by all Druggists; \$1, six bottles for \$5.

FOR HORNED AMINALS,
Or Bull Conqueror.
Pat. April 8, 1884. Entire
Patent or Territory for
sale. \$5 and \$550 per set.
Sent to any part of U.S.
on receittof price. Circular and testimonials sent
on application. Enclose
stamp for reply. Address
GKO. W. EliTCHE.
AFFOWNIBLE.



Book Notices.

EASTER.—The ideal Easter design is the symbolic one. Charming as figures of dainty children are, there is no question that the meaning breathed by flowers and buds, by the floating butterfly and singing bird, earry the lesson of Easter into a thousand hearts. In such designs it would be hard to find any to excel in significance and beauty the latest publications after Mr. Hamilton Gibson, and Miss Fidelia Bridges. Their names guarantee excellence, and the reproductions are essentially good, Walter Saterlee may be regarded as among the foremost of those who, taking a somewhat lower note, reach the spublic by more realistic conceptions, and the Easter cards which bear his name form no exception to this rule. L. Prang & Co., 38 Bond street, N. Y.

OGILVIE'S POPULAR READING.—We have just received a copy of number sixteen of "Ogilvie's Popular Reading"-price only 30 cents-containing the following eight stories -all complete: "A Golden Dawn," by the author of "Dora Thorne;" "Down with the Tide," by a well-known author; "A Frozen Sea," by Wilkie Collins; "The Dean's Watch," by a popular author; "Barefoot Billy's Fortune," by Gaffer Grav; "Miss Simmon's Boarding-House," by author of "A Bad Boy's Diary;" "Perfect Etiquette," a complete guide to polite society; "A Heart for a Heart," by Boma. All of the stories are printed in large type, with handsome colored lithograph cover, also a handsome colored frontispiece, printed in twelve

The April number of Dorcas is an admirable one. In addition to the usual number of patterns and directions for crocheted and knitted articles, there is an article on "Tile Carving from Colorado Marble," which opens the way for a new industry for women. This magazine takes special pains to bring forward anything new, which may in any way help women to new and better means of self-support. Dorcas is a periodical which should be in the hands of every lady in the land who has any taste for art decoration or fancy work. The illustrations are excellent, and the patterns selected with extreme good taste, and written in so plain and explicit a manner that a novice will find no trouble in following them. Newsdealers and postmasters will take subscriptions or furnish sample copies. Sub scription price, \$1 per year. Send ten cents for sample copy. Address Dorcas, 872 Broadway, New York City.

This. That and the Other.

"Do take some more of the vegetables, Mr Blood, for they go to the pigs any way."

"You must join the cremation society," were the first words she said to her husband. "What for?" "I've bought such a lovely vase to hold your ashes. You have no idea how it will set off the mantelpiece."

"If a man wants to own the earth, what does woman want?" inquired Mr. Grap of his better half after a family matinee a few days ago. "Well, my dear," responded the lady in a gentle tone, "to own the man, I suppose.

"Ever had a cyclone here?" asked a Kansas man who was visiting a country aunt in the East. "A cyclone? oh, yes," said his aunt, "Deacon Brown's son brought one from Boston a spell ago, but law! he couldn't ride it. 'Tumbled off every time he tried."

The following verse is on a tombstone in a Sheffield churchyard, erected above the grave of John Knott, a scissors-grinder:

Here lies a man that was Knott born, His father was Knott before him, He lived Knott, and did Knott die, Yet underneath this stone doth lie.

The Aroostook region in Maine, where great areas of timber have been burned over, is said to be a paradise for honey bees. In this region the fire-weed flourishes throughout July, August and September, while wild raspberry bloom is abundant in late June and July. Both of these plants make a clean, white honey, which captures the premiums at all the fairs without trouble.

A bridge at Lyons, France, has a stone parapet, pierced at intervals for light, forming a passage which plays the part of a gigantic flute. The rush of the air currents through the openings causes the bridge to emit such sounds of music at different parts of its course that "one might believe it haunted by legions of invisible naiads pursuing the passengers with their plaintive melodies."

The topaz occurs frequently in New South Wales. A portion of a large, bluish-green crystal found at Mudges, and now placed in a colonial museum, weighs several pounds. Other specimens weighing several ounces are by no means rare. They are sometimes two inches to three inches long and broad in proportion. The pale bluish-green tint is the most prevalent, though crystals are occasionally found of a slightly vellow color. other specimens weighing several ounces are by no means rare. They are sometimes two inches to three inches long and broad in proportion. The pale bluish-green tint is the most prevalent, though crystals are occasionally found of a slightly yellow color.

(Name paper.) Fort Atkinson, Wis. BLACKS-

"A scientific Frenchman says he has discovered a new process for making artificial brains," said Mrs. Wigglesworth, looking up from the paper she was reading. "Artificial brains!" sniffed Mr. Wigglesworth, scornfully; "that's just like those nonsensical Frenchmen, always fooling away their time making something artificial. What I want is real brains—none of your make-believe nonsense." Mrs. Wigglesworth, as she resumed her paper, demurely murmured that she had noticed it, too, but she never should have dared to speak of it herself.

God pity them both! and pity us all, Who vainly the dreams of youth recall; For of all sad words of tongue or pen, The saddest are these: "It might have

When I was young there seemed to be No pleasure in the world for me; My fellows found it everywhere, Was none so poor but had his share— They took mine, too!

BERKSHIRE HOGS.

My herd now numbers about Forty Breeding Sowe and Four Boars, including representatives of the bes families of the day, and also prize winners at the leading shows of this country, Canada and England. I have now in use in my herd sows that won in England in 1883, 1882 and 1881, and descendants of noted prize winners previous to that time. The principal bear in use in my herd at present is "Duke of Moumouth" 11361, who won in 1883 the first prize at four leading shows in England, including first at the Royal Show, and also first prize at two leading shows in Canada. He thus won six continuous first prizes without being beaten, a like record I believe never at ained by any other boar. I paid \$400 for "Duke of Monmouth." He is a splendid breeder, an animal of great constitution and comes from the same family as my old boar "Lord Liverpool" 221, for whom I paid \$700, and who is now almost eleven years old and still alive. I have now a splendid lot of pigs from three to six months old, the bulk of which are got by "Duke of Monmouth." I would also spare a few of my sows, young or old, when in pig, and part of my breeding boars. I do not advertise prices as low as the lowest, for I cannot afford to sell as low as those who bought a cheaper class of stock to start with, but my prices are reasonable and within the reach of all who know the value of first-class stock. My herd of Berkshires show as much size as hogs of any breed, and I am sure I can show more quality, activity, constitution and size than is combined in any other breed of hogs. Almost if not every prominent herd of Berkshires in the West contains representatives from my herd, and this alone, considered in connection with the many prizes I have considered in connection with the many prizes I have won for ten years past at our largest shows, proves beyond a doubt the quality of stock I am producing from year to year. No breeder of any kind of hogs in the United States or Canada has for several years past bought and retained in his herd so many valuable animais at an equal cost as I have. I have issued a new estalogue this season containing the pedigrees in full of my herd and a limited description of each animal together with a complete list of prizes won for several years past. This catalogue I will mail free to all who feel interested enough to write for it.

I am also breeding High-grade Short-horn Cattle and Merino Sheep. Have now about 100 good young rams for sale.

I have reduced rates for shipping. All parties visiting from a distance will be met at

the train, if notice is given in time. For prices or any further information, address

N. H. GENTRY Sedalia, Mo.

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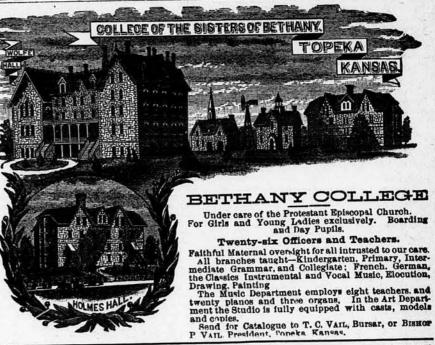
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The Bome Circle.

The Land of the Afternoon.

An old man sits in his garden chair,
Watching the sunlit western sky.
What sees he in the blue depth there,
Where only the Isles of Memory lie?
There are princely towers and castles high,
There are gardens fairer than human ken,
There are happy children thronging by,
Radiant women and stately men,
Singing with voices of sweet attune
The songs of the Land of the Afternoon.

The old man watches a form of cloud
That floats where the azure islands are,
And he sees a homestead gray and loved,
And a hand that beckons him afar.

And a nand that beckons him arar.

O, cheek of roses and hair of geld!
O, eyes of heaven's divinest blue!
Long have ye lain in the graveyard mould—
But love is infinite, love is true;
He will find her—yes, it must be soon;
They will meet in the Land of the Afternoon. noon.

The sky has changed, and a wreck of cloud Is driving athwart its troubled face, The golden mist is a trailing shroud; It is cold and bleak in the garden place. The old man smiles and drops his head, The thin hair blows from his wrinkled brow.

brow,
The sunset radiance has appeared
O'er every wasted feature now;
One sigh exhales like a breath in June—
He has found the Land of the Afternoon.

A wandering snowflake fell on a high-born lady's hand,
And a moment lay near a diamond ray, that flashed from a golden band;
Before the tinted white of her tapering fin-

gers seemed
Unearthly fair, with the jewels rare, and
the circling gold that gleamed.

But all their beauty fled, when that snow-waif downward flew,
And lay so bright that her finger white seemed turned to a yellow hue.
Ah, thus the proud of earth, though in grand attire arrayed,
Lose all their pride when they stand beside the beauty which God hath made.

Climate and Intellect.

Olimate and Intellect.

A great deal has been said about the effect of climate upon intellect, and not much of the effect of intellect upon climate, or, to be more exact, of the power in mental activity to resist or control climate influences. Some philosophers have held that there is an occult sympathy between mind and matter, and that a gr at accumulation of mind upon one point—that is to say, the direction of a strong current of desire for or against some operation of nature—would be effective. For instance, if all the people in a wide district suffering under drouth should unite in a common longing, a sincere mental struggle, for rain, that nature would feel the subtle influence through all its being, and rain would come. Unfortunately the experiment has never been tried, for common consent at any moment never has been attained—there is always somebody who has hay out.

But this at least we can say that it is

For instance, I all the people in a wide district suffering under drouth should unite in a common longing, a sincere mental string a common longing, a sincere mental string string string and the string of the str

hand struggle with extreme cold for months does a person good—braces him up. It must be admitted that up to a certain point any struggle or trial is invigorating to the moral and intellectual nature. But we see what too much indulgence in this leads to. The Esquimau is but little raised above the polar bear and the seal. His whole existence is just an effort to keep alive, to get blubber and skins enough to generate and keep in his body vital heat. He can think of nothing else; he has room for no other mental effort. We see the same thing in the diaries and accounts of the polar exploration fanatics. It would be the most painful reading in the world if it were not so monotonous. Each one tells exactly the same story—the story of his physical struggle to keep alive with the thermometer fifty degrees below zero. Soon the mind has no other occupation than this struggle. It almost ceases to work in any other direction. This is interesting to us at first as a study of the capacity of the human organism to resist the unrestrained attacks of nature. The experience of a person who should in this latitude, in winter, retire to an ice-house, with a hatchet and a supply of frozen hash, a whale-oil lamp, and a fur overcoat and body-bag, and sit on the ice in the darkness, and record his feelings, the gradual lowering of the vital powers, the concentration of the mind upon the numbness of his legs, would doubtless have a physiological interest. But the second experimenter would not interest his readers so much as the first with his narrative.—Charles Dudley Warner, in Harper's Magazine. with his narrative.—Charles Dudley Warner, in Harper's Magazine.

A Touching Scene.

Entering the depot at Columbus a short time ago, to take the train for Kansas City, my attention was attracted by crying that indicated deep sorrow. Upon inquiry as to the cause, the sheriff who stood near answered that he had just brought a convict to the depot to take the train for the penitentiary, and that it was the parting of his wife and children. The man was about 50 years old, had been drinking, when some rowdy associates came to his house; he ordered them away, and when they did not obey he fired on them and killed one of them. He was sentenced for ten years to the penitentiary. His wife sat beside him, his daughter almost a young woman stood to one side, a little boy probably eight years old stood before him gazing into his face, tears streamed from his eyes, and he cried as if his heart would break, a little girl of perhaps four years old sat on the mother's lap, while the poor man held his babe perhaps 15 months old. This was the group. The weeping husband taking his final farewell of his heart broken wife and weeping children was the saddest sight I ever beheld. For one rash act, committed u. der the influence of strong drink, this man who from what I saw loved his family, was torn away from them and deprived of his liberty. His wife lost a husband and was left poor in the world with a large family. The children lost a father at a time when they needed him most. As the poor man was torn away and took his place in the car manacled to another criminal, and was hurried away from all he held dear on earth, toward the gloomy walls of his prison, a sadder and more disheartened countenance I never beheld. For days the terrible and touching scene was present in my mind. It was a powerful less on on the danger of intoxicating drinks, and the crime of the government in allowing such temptations to be put before men.—Western Friend.

for she will be remembered by many for many years as one who was kind to children and loved to consider their little needs.

Household Recipes.

Baked Potatoes.—Pare and slice raw potatoes very thin; put them in a baking dish and cover well with milk; add pepper and salt and bake until nicely browned. Do not put the potatoes in water after they have been sliced.

Hickory Nut Maccaroons.—Two cupfuls of hickory nut meats; beat them fine in a mortar, and add two cups of sugar, four tablespoonfuls of flour and three eggs. Mix well together and bake on well-greased paper. Put only a little of the mixture in each place.

lace.

Lemon Rice Pudding.—To two-thirds of a cup of rice, boiled and cooled, add the well-beaten volks of three eggs, salt, a teaspoonful of butter, three tablespoonfuls of sugar and the grated rind of two lemons, with milk enough to make very moist. Bake forty-five minutes. Use whites of eggs and juice of lemons for frosting, and brown. juice of lemons for frosting, and brown.

Mashed Potatoes.—A new way to warm over mashed potatoes is to add one table-spoonful each of chopped and scalded onions and chopped parsley, with sait, pepper, nutmeg and four ounces of grated Dutch cheese; mingle well; put into a hollow dish in dome form; strew a little grated cheese and bread crumbs over; add a few small pieces of butter on top; bake a light brown in a moderate oven.

brown in a moderate oven.

Baked Eggs.—Take five eggs and put the yolks in a bowl and stir with a little salt and pepper. The whites should be beaten to a stiff froth, and if there are more whites than yolks, the dish is so much better. After the whites are stiff as can be, pour the yolks over them and mix lightly with a spoon, then turn all instantly into a hot baking-dish with a little melted butter in the bottom and bake immediately.

A Good Sauce—A good sauce to go with plain fruit puddings is made by mixing up one cup of brown sugar, one cup of best molasses, half a cup of butter, one large teaspoonful of flour; add the juice and grated rind of one lemon, half a nutmeg grated, half a teaspoonful of cloves and cinnamon. When these are all stirred together, add a teacup of boiling water; stir it constantly, put it into a saucepan, and let it boil until clear.

Cold Food—Cold fowl left over from

clear.

Cold Fowl.—Cold fowl left over from dinner may help to make an excellent side dish; cut it into rather small pieces, put a large lump of butter into a saucepan, and brown the meat in that; sprinkle pepper and salt and some flour over it, and when the meat is brown add half a pint of stock, which need not be very lich to be good, a pint of peas (canned ones); heat to the boiling point and then serve. Mushrooms may be used in place of peas, and the proportions given above may be regulated by the quantity of fowl which you have.

Bathing and Baths for Farmers.

The indoor laborer who gets but a scanty supply of fresh air, needs a bath to obtain those invigorating elements so common to

these invigorating elements so common to the open air.

The outdoor laborer—especially the farmer—who works with heroic energy all day long, unavoidably gathers on the entire surface of his body a complete prison-wall of dust and thickening, gummy perspiration; and when his day's work is done, he needs then more than any other thing, not only a wash, but a good, lusclous, full bath to fit him for a clean bed and a refreshing sleep.

Finally, every one needs a bath at times and every human habitation should contain something for a complete immersion in water, and since convenient and efficient portable baths at comparatively low figures are now extensively advertised for sale, there is little excuse for any one to be without this priceless benefit.—Western Rural.

Only in dreams thy love comes back, And fills my soul with joy divine. Only in dreams I feel thy heart Once more beat close to mine.

Only in blissful dreams of spring,
And sunny banks of violets blue,
The past folds back its curtain dim,
And memory shows thine image true.

The Duty of State Legislatures.

Legislatures in every State should regulate Legislatures in every State should regulate the sale and use of the many poisons resorted to by women in their desperation to obtain a beautiful complexion. There exists in Dr. Harter's Iron Tonic every requisite to accomplish the object without injuring health or endangering life.

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ALNEER BROS.
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The Houng Folks.

Play You do not Mind it.

Some youthful housekeepers one day Were getting supper in a way
That was delightful, really;
The grass a velvet carpet made
Beneath the glowing maples' shade;
No room so charming nearly.

Then Flossy brought a napkin red; Then Flossy brought a happy of the 'Twill make a lovely cloth,' she But when she came to try it, Alas! 'twas not quite large enough To hide the table, slightly rough, 'Twas useless to deny it.

The rueful looks of black dismay Began to chase the smiles away, So meagre did they find it. Till outspoke sunny little Nell: "We'll leave it so, 'tis just as well, And play we do not mind it."

The joyous smiles returned once more, Too soon the dainty feast was o'er, And shadows gathered thickly; A star shone silvery in the west, Warning each merry little guest To seek the home fold quickly.

The lesson is as plain as day; A cloud may rise above your way,
The sunshine is behind it;
When things go wrong and others frown,
Just put all vain repining down,
And play you do not mind it.

Christmas in the Rocky Mountains.

Christmas in the Rocky Mountains.

In the "Mining Gulch," away up 9,000 feet, I find a real "No-man's land;" a mining camp where never a Christmas tree was appropriated for a festival, although abounding in most inviting forms. The little ones never had a Christmas! The older ones brought remembrance of the happy time from "Father-land;" from New England firesides; from Canada and other christian homes. To lose it all in their forgetfulness of all else in the search for gold! Christmas was approaching. With my heart filled with the memory of joyous reunions, I look down the mountains, over the great plains, and witness the busy, loving

great plains, and witness the busy, loving preparations for a "Merry Christmas." With a sigh I look from that picture to this. With a sigh I look from that picture to this. I view the landscape o'er, canvassing all the possibilities of inviting Santa Claus to our mountain top. Discouragement met my inquiries in all directions, save from the eager, expectant little ones. They put their trust in my ability to do as I would. The "weather-wise" predicted high winds with drifting snow, rendering roads impassable, as a "blockade" was the rule at Christmas times. The mail even stops, sometimes for weeks.

my anotity to 60 as 1 would. The offering anow, rendering roads impassable, the winds with an effect never to be drifting anow, rendering roads impassable, the second impassable, the property of the control of the co

did the words appreciation, admiration and anticipation stand for more. Dolls, tops, brought forth exclamations of delight. Closer pressed the crown. Horses, wagons, cars, animals, curious and rare: toys—ever so much longed for—picture books, slates, bright pictures for decoration; Christmas cards of all designs; collars, ribbons, pocket handkerchiefs, and ties; candies, nuts, raisins, and handsome bags to hold these; white ornamented bags of pop corn. Everybody interested and happy. Old and young exclaiming, "beat's all!" "how much more?" "enough for all creation!" and much of Rocky Mountain slang, innocently uttered. It meant no disrespect. It was the best they had. Like their personal decorations—a coat brought from the "Fatherland"—one a souvenir of a twenty-five years ago wedding. Two white shirts were conspicuous; the miner's blue flannel is the customary attire. Mothers and children did their best in personal adornment, but oh, such a funny crowd. You would have thought we were masquerading, dear readers. It was a rare and happy Christmas celebration.

The best was kept until the last of the celebration.

celebration.

The best was kept until the last of the feast. Papers, magazines, and books, were then arranged upon the teacher's desk. This was to be our winter's feast; the starting point of a circulating library. "Tall trees from little acorns grow," and this little planting must grow. There are no books here; not a Bible, though a few worn testaments. We have two large Bibles now in the library. The box had enough testaments for all and they were gladly received. the library. The box had enough testar for all, and they were gladly received.

the library. The box had enough testaments for all, and they were gladly received.

Dinner was then announced; for those who had pushed their way through such drifts of snow must be fed. The table had been set facing the tree, where our guests could feast greedy eyes, as well as hungry stomachs. The children were served fir t, for it was their day. It was a right royal feast. No turkey, no fresh fruit. no esthetical adornments, but good mountain fare,—coffee, stewed antelope, and canned fruits and vegetables. There was no cake, as eggs were not to be had. All did justice to this unusual feast; the scraps were gathered up that nothing be lost, to lunch the little ones before leaving for home, for this was a full day's merry making.

Dinner over, all awaited the grand climax of their lives, receiving gifts from a real Christmas tree. You should have witnessed the wild delight. Order was called. "Children, why do we celebrate this day?"

"To get my doll," cries a little tot.

"No, my horse and top," says toddlekins, both in a breath.

"Yes, but why?" was insisted upon. No response. They had not the remotest idea of any significance bit a good time. The old story ever new, of Christ a babe in the manger, was told, with an effect never to be forgotten. Neither will the distribution of gifts. All were satisfied with their goodly armfuls; whistles were tried; harps raised a tune; wagons were rolled; puzzles worked out, and the great mystery of Christmas solved. The absent ones were all remembered, and the older ones received a substantial souvenir of the one happy Christmas in the Rocky Mountains.—Woman's Magazine.

A "Lightnian Red" A readets of Licele.

ing to me, must be taken down. I am not so young in years as I am in the tricks and trades of a politician, but,' said he, pointing to Forquer, 'live long or die young, I would rather die now, than, like the gentleman, change my politics, and with the change receive an office worth three thousand dollars a year, and then, continued he, 'then feel obliged to erect a lightning rod over my house to protect a guilty conscience from an offended God.'

"It is difficult to-day to appreciate the

nouse to protect a guilty conscience from an offended God.'

"It is difficult to-day to appreciate the effect on the old settlers, of this figure. The lightning rod was the first which most of those present had ever seen. They had slept all their lives in their cabins, in conscious security. Here was a man who seemed to these simple-minded people to be afraid to sleep in his own house, without special and extraordinary protection from Almighty God. These old settlers thought that nothing but the consciousness of guilt, the stings of a guilty conscience, could account for such timidity. Forquer and his lightning rod were talked over in every settlement from Sangamon to the Illinois and the Wabash. Whenever he rose to speak thereafter, they said, 'There is the man who dare not sleep in his own house, without a lightning rod to keep off the vengeance of the Almighty.'"

Shad and Their Habits.

"In the spring." said Fish Commissioner Blackford, of New York, recently, "the young man's fancy lightly turns to thoughts of broiled shad. It's generally around St. Patrick's Day that shad make their first appearance in the North river, and there is a tradition among Weehawken fishermen that the saint was himself a mythical shadow." the saint was himself a mythical shad-ow," and even as the commissioner spoke he inadvertently stuck the lighted end of his cigar in his mouth. Recovering quickly from the surprise which this act occasioned, he resumed:

from the surprise which this act occasioned, he resumed:

"The experts tell us that the temperature of the water governs the appearance of shad in the rivers and harbors along the Atlantic coast, so that there is really no accurate method of determining when they will appear. Observations taken in 1881, '82 and '83 showed that on an imaginary plateau out in the deep sea, extending from the capes of the Chesapeake to the Delaware breakwater, the temperature of the water was much higher than in the rivers and bays along the shore. The presumption, therefore, is that schools of shad belonging to the Chesapeake, the Delaware and the North rivers have their common winter quarters on this plateau. When the shore water, as the season advances, becomes warmer than the ocean water, the shad migration into continental waters begins. If the northern area should be warmer than the southern, then an unusual proportion of shad will be thrown into our waters. If, on the other hand, cold waters should sweep down from the northern rivers, then the shad will make a dead set for the Chesapeake and our fisheries will prove a fallure. Warm rains and the absence of snow in the mountains at the beginning of the fishing season will also determine the movements of these fish. If, in the early spring, they get up to the mouth of a river and find the water warm, then a tumultuous rush of shad and herring takes place up the river and the markets will be glutted. I trust this will prove the case this season."

"How about the southern shad?"

"Well those are not possessed of the fia-

The boat was just swinging out. You ran and jumped on board. You called for the valise. The colored boy put the valise behind his back and called for his quarter. You hunted, fished out a quarter and tossed it ashore; but the gap was too wide to toss the valise. The captain had to stop the boat and back up before you could get vour valise. Do you remember that?" "Well, I should say I do." "I was that colored boy."

A gentleman made his way into the bed-chamber of one of his friends, and found him fast asleep with a pair of spectacles upon his nose. "What!" cried he, awaken-ing him, "do you wear your spectacles while you sleep?" "Oh!" replied the other, "I am so near-sighted that without my glasses I could see nothing whatever in my dreams."

A fish auction in Holland is one of the oddest things in the world. As soon as the boatman reaches port with a load of fish, the fact is announced by the sounding of a gong. Those desiring to make purchases repair to the beach, where the fish are piled up in little heaps. The owner then proceeds to auction them off. Instead of letting the purchasers do the bidding, as is done in this country, he does it himself. He sings out a price at which he will sell the lot. If no one takes it, he comes down by easy stages till within what the purchasers are willing to pay.

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Every boy that is old enough to handle a hoe ought to have a piece of ground to cultivate for himself. It is a good training school.

do what is called watering their stock—increase their wealth on paper by simply declaring officially that their capital stock is increased so many shares worth

A delegation of clergymen called upon the President last week and presented a petition asking for action to suppress polygamy in this country.

so many dollars apiece. Then, business is done on the basis of the increased (watered) stock or capital, instead of the real. Suppose the actual cost of

Our information as to the condition of winter wheat in Kansas does not justify us in changing the opinion stated last week. The condition is not good.

The farm machinery advertised by J. E. Porter, Ottawa, Ill., is well worth examining. It would be well for our farmer friends to send for his catalogue.

If there is yet remaining any trash about the premises, remove it at once. It is a pity to taint this delightful spring air with the sickening odors of such filth.

The boomers have not vet taken possession of Oklahoma. The new President agrees with his predecessors, that that country is not yet subject to white settlement.

In Virginia peanuts are called peanuts; but in North Carolina they are called "ground peas," in Tennessee "goobers," and in Georgia, Alabama and Mississippi "pinders."

Some Cowley county farmers recently organized the Farmers' Co-operative Milling Exchange, for the construction and operation of a flour mill "doing an exchange and general milling business." The mill will be built and operated at Arkansas City.

President Cleveland is said to have great respect for his dead mother. When he was a boy she used to take him to hear Rev. Byron Sunderland, a Presbyterian, preach sometimes. That was in Buffalo, N. Y. Mr. Sunderland now preaches in Washington city, and the President attends his church.

A Southern paper thinks that ere long "peanut flour" will be an important production of the South. Virginia is set down this year for 2,100,000 bushels, Tennessee for 250,000, and North Caro lina at 135,000 bushels, these being the chief States engaged in their cultivation, and those in which it was first introduced from Africa.

So many cattle are injured by dragging them out of muddy places that it e Cowboy wisely asks: "Why can't a portable derrick, with appliances for elevating the animal bodily from the mire and landing it safely and harmlessly on solid ground, be invented? We have patent branding pens and patent car loaders. Now let us have a patent cow-bogged extractor."

BASIS OF RAILROAD CHARGES.

The position that the basis of railroad charges properly is the cost of railroad building must be abandoned. It seems reasonable, but it is not. No such rule is adopted in any other business. A merchant, for instance, does not mark his goods to correspond to the cost of the building in which he sells them. One man may sell goods in a fifty thousand dollar building and another may sell the same kind of goods in a two thousand dollar house, and if there be any difference in the prices asked for the goods in the two houses, the more costly one gives the lower.

Nor is the capital invested in a road a proper basis upon which to build rates of compensation. The capital may be real or much of it may be unreal or fictitious. That is to say, the papers and books may show a capital stock of ten million dollars, when in truth the building of the road did not cost onehalf that sum. Corporations sometimes do what is called watering their stockdeclaring officially that their capital stock is increased so many shares worth so many dollars apiece. Then, business (watered) stock or capital, instead of the real. Suppose the actual cost of building a railroad is one million dollars, and the owners of the stock want to make money and yet appear to be charging rates that are very low when the capital invested is considered; they may appear to be receiving only one-half their real gains by doubling their capital stock on paper. If 6 per cent. profit is made on one million really expended, by making the capital two millions, the same income would appear as 3 per cent.

As long as this idea of rating compensation to railroad companies according to what is, or what appears to be. the capital invested, is entertained and acted upon, there can be no permanent adjustment of difficulties growing cut of intricacies and complications of the business and conflict of real and fictitious interests. As we have before pointed out in these columns, railroad companies do not deal with one another on such bases. In pools and combinanations for division of trade, no attention is paid to capital invested or to cost of construction. Half a dozen different companies may agree to divide the through business between Kansas City and Chicago, but the division is not based upon capital or cost of building the roads; it is a simple division equally among the contracting companies. If there are six companies in the pool, and the total amount of money received by all of them on the business is six million dollars, each one of the six companies receives one million of it and pays its own expenses.

The true principle is that established long ago, and is what the lawyers call quantum meruit-that is, how much is it worth. In all cases of disputed wages or payment for services rendered, the question submitted to the court is-What are the services reasonably worth?" And in confining the testimony of witnesses to that particular inquiry, nothing is said or allowed concerning the cost of any outfit employed or how much money is invested in it or what amount of capital stock the books show. If the dispute be over services in digging a ditch, nothing is said about the cost of tools or machinery used. What is so much ditching worth in that locality, and that is determined by what persons usually charge for such work. If a farmer hire two men to plow corn and one of them comes wearing a pair

merchant has goods at a distant railroad station to be hauled to his store, does he pay more to a freighter that has a thousand dollars invested in a team and wagon than he does to another that has only two hundred and fifty dollars so invested?

If cash or capital is to be the basis of compensation, the people would be compelled to pay for all the extravagance and waste, to say nothing of fraud, in railway building and speculation. As matter of fact, a road may have cost the stockholders twice as much as it ought to have cost, and this without any fault on their part. The public ought not to pay for waste, whether caused by ignorance, misfortune or fraud. This is a selfish, almost cruel world, and measures of compensation are not those of sympathy or charity or friendship, but of cold, calculating business. What is the work worth?

On the cost theory, there could never be anything like a system of transportation established. A continuous line of shipment from New York to Topeka, for instance, may include five or ten different railroads, each costing a different amount fer building. It would be a troublesome matter, indeed, to adjust the compensation for the entire haul according to the capital invested in the different roads. The roads themselves do not so treat the matter.

Nor would such a method of compensation be just to the railroad companies, because while an equal service is rendered, the more expensive road would receive correspondingly larger pay. If it be worth one dollar to haul a ton a hundred miles, what does it matter how much or how little the means of transportation cost? We do not mean to say that cost of railroad building has nothing to do with the amount of compensation to be received for services rendered. The point we make is, that the true rule—quantum meruit is determined by other considerations.

What, then, are those other considerations? Suppose a new town is started at a point forty miles from the nearest railroad station, and there is no change in that respect during a period of ten years. All the transportation between the two places is done by "freighters." A rate per pound, per hundred pounds or per ton is established and is made uniform. How is that done? Who fixes the scale and upon what basis? The citizens of the town for whom the freighting is done have very little to do with fixing the rates; indeed, it may be said they have nothing to do with it, but the thing is done and they accept it as reasonable. The rates are fixed by the persons who do the work, and a fivehundred-dollar team receives no better compensation unless it hauls more goods than a team that costs half as much or less. The freighters soon settle down to a rate of compensation that they consider fair, and their employers, the people of the town, are satisfied, because, reasoning in the same way, but from a different standpoint, they come to the same conclusion. Every ordinary man knows what is the average cost of things in ordinary use. They know what a day's work is worth and why: they know what it costs to keep a horse and why; they know what an average wagon is worth; they know the value of harness; they know how far an average team when loaded will travel in an ordinary day; and, looking at these things in a reasonable way, the people conclude that the rates established by the freighters are reasonable.

The same rule, precisely, operates in railroad building. The railroad men of two-dollar gloves, eight-dollar boots, and a forty-dollar suit of clothes, must the wages correspond to the dress of the dude rather than to his work? If a

unless they think they are imposed upon by unjust discriminations against them. Rates that the companies fix for themselves must be sufficient, allowing themselves to be judges; and there is no better or fairer way to ascertain what is reasonable compensation than that adopted by the roads, because, in the nature of things, the rates agreed upon will be those which are satisfactory to the company whose line is most favorably situated for doing the business cheaply. It would not enter into any combination that would injure its business, and for that reason the terms agreed upon are likely to be fair. The only reason why it would listen to overtures at all is that it would avoid the going below living rates by competing roads. Railroad companies, like individual persons, soon get down to fair and reasonable rates. Such things are settled in time, settled fairly, and by the conduct of the persons or corporations that perform the work.

Taking this idea as the basis of our reasoning, one may easily foresee the final adjustment of all the present troublesome difficulties in the transportation problem. A system may thus be established, and that as fast as the legislators learn how.

When trees have been shipped a great distance, they ought not to be set out immediately after arrival. They ought to be "heeled in" a few days in moist ground, or the roots ought to be soaked in tepid water several hours. Mr. Robert Douglas says that few planters could be made to believe that more trees are injured by being packed too wet than are injured by being packed too dry. I am of the opinion that more trees are injured by heating than by drying. And he gives some remarkable instances of shipment of trees long distances and after planting with good results. He tells of trees sent safely to California, China and the Punjaub, after much delay in transit, and concludes with the following experiment: We took a strong, tight box, lined it with strong paper, and during the winter packed 1,000 Catalpa speciosa trees, twelve to eighteen inches in height, in dry moss, kept them in the packinghouse during the winter, and in the spring moved them into a small building we use as a tool-house, with a large window on the south and another on the west, into which the sun had free access, believing that this would be as trying a position as they could be placed in en route to China. In October, just one year from the time the trees were dug, we opened the box and sent a few to two or three friends, who pronounced their vitality perfect. We immediately headed up the box. When winter set in we moved it again into the packinghouse to secure it against frost, and in the spring, eighteen months from the time the trees were dug, we again opened the box and planted twenty trees, after soaking them in tepid water, and they made, apparently, as good growth as trees newly dug."

This is said to be an excellent mixture to keep on hand: Kerosene, two quarts: linseed oil, one gill; resin, one ounce. Melt the resin in the linseed oil, and add to the kerosene. Coat all steel or iron tools, wherever bright, with this when they are to lie idle, if for only a few days. It will not take half a minute or half a teaspoonful of the mixture to coat a plow, when one has finished using it, and it will prevent all rust and save half a day's time in cleaning it when it is again needed, besides saving the team many thousands of pounds extra pulling. Coat the iron work of the mowers and reapers with it when they are put away for the winter. A little rust is only a little thing, but it

Civil Service Reform.

President Cleveland is surprising a great many people by his acting in conformity with the declarations of his party platform on civil service reform He is not removing faithful officers simply because they are not Democrats. If they have done and are now doing their work well and do not put their party before their country, the President does not care to push them out before their term expires. When a vacancy occurs he will fill it, and every person expects him to appoint a member of his own party.

There are a great many persons clamoring for office and he does not encourage them. The other day a delegation waited upon him asking that he appoint certain persons named to certain places. He asked them: "Are the men in the offices not of good character?" He was informed that there is nothing against the men on the score of character or qualifications, but "they are Republicans." "When will their terms expire?" asked the President. "In two years." "Call and see me then," he added.

This is a very hopeful sign. President Grant, a dozen years or more ago, recommended a change in methods of appointment, and upon his suggestion a Civil Service Commission was appointed, the result of which was that party politics now have nothing whatever to do with the appointments of a great many subordinate offices. Persons now get into clerkships in all the departments upon certificates of qualification from the board of Civil Service Examiners, and when applicants are examined the board does not know their party affiliations. Much has already been done by way of improving the civil service and getting it out of party politics, and Mr. Cleveland's course is strengthening the public sentiment on the subject.

When the people demand a change of administration and put another party in power, they expect all Cabinet officers and embassadors to foreign countries and other assistants of the President to be of the same party; but they do not want every postmaster, every Custom House officer, and every clerk in every department to be pitched out and a person of opposite politics put in, regardless of qualifications. The civil service has grown to be a great system of duty, requiring skill and special There are persons now on training. duty that have been there since before the war. Their worth is hardly to be estimated, and because of their experience. And the work to be done by these persons has no relation to party. It is Government work, to be done in precisely the same way, no matter what party is in power. For that reason, fitness alone, not opinions, is the standard of qualification, or it ought to be. And that is what civil service reform means. The number of officers and clerks and other assistants below the Cabinet and Ministry, is not far from a hundred thousand. In the post office there are upwards of sixty thousand. If this vast army of workers is to be changed offered in any quantity. as parties change, it becomes a permanent corrupting force. Let the true doctrine—fitness, be established, so that a new hand goes into the public service through the Government gate and not through the party hatchway, the people will understand that the public business will not be disturbed by a change of administration, and parties will be more candid, officers will have more freedom. and many scandals will be avoided.

From a Southern paper we learn that Virginians are beginning to turn the peanut into flour and say it makes a particularly palatable "biscuit."

Georgia there is a custom now growing that in working the growing corn. soil and with the least labor and least injury to which has some resemblance, both in level when the corn is "laid by." look and taste, to that made of cocoanut, but peanut pastry is more oily and richer, and, we think, healthier and better every way.

Value of Sorghum Seed.

Farmers in Kansas and throughout the West are learning more about the value of the sorghum plant every year. The blades make good fodder; indeed, by sowing or planting thickly, the entire stalk may be grown as a tall, sweet grass, and all of it made into excellent hay. When stalks are well matured, they produce good sugar and sirup, and the leaves make the best of fodder, while the seeds may be used for feed of beasts, and it may be put into flour and used in the kitchen for bread.

As to the value of seed alone, Dr. Peter Collier, late of the Agricultural Department at Washington, says that is to say, that the surface ought in large districts of India fully nine- not to have been unmoved long tenths of the inhabitants subsist on sorghum seed; that in the immense territory known as Turkestan sorghum is the chief cereal, because, owing to the prevalent droughts, no other grain can start of the corn. Fresh plowed ground be grown; that in the northern part of is best always for corn. But a very China, whose inhabitants are in America popularly supposed to live on rice, sorghum is grown exactly as corn is here and used for the same purposes; that he has secured from China, India and South Africa seventy-three varieties of sorghum seed, which are entirely new to this country, all of them extensively grown in their native soils and not one of them ever cultivated except for the seeds and forage. "Indeed," he says, "it is probably true that for the past thousand years the seed of sorghum has furnished food in greater abundance for man and beast than have wheat and corn combined." He then goes on to argue that the seed of sorghum grown in this country can easily be made to pay the entire expense of cultivation, leaving the stalks to be crushed for sugar or sirup and afterwards, in the pulp, to be used for ensilage or for paper making. With all these engaging qualities, it does seem strange that sorghum has not been handled in a manner to develop its usefulness, and the ill-success that has attended its culture thus far naturally casts a doubt on the glowing anticipations indulged in by its admirers. Still, it must be remembered that it takes a long time to adjust the various agencies necessary to carry out such a plan as that contemplated by Dr. Collier. If sorghum seed is as valuable for food as corn, it is manifestly a great waste to raise the plant for sugar alone. It is so few years since the seed of the cotton plant began to be utilized that it need surprise no one to hear that the value of the sorghum crop may be largely increased in the same manner. The nutritious quality of the seed is well known, but farmers are not generally aware of its availability as a grain, nor do they comprehend how easily a market could be made for it were it to

About Planting Corn.

It may be said that there are two

old, of grinding or pounding the shelled may be thrown to and around the stalks peanuts and turning them into pastry. every time and yet leave the ground

> In low, flat, wet or hard ground, listing is not good, but where the soil is loose, warm and well drained, it is an improvement on the old method, and this is true particularly in climate and soil such as we have in the western counties of this State. The best work is done where the lister runs enough deeper than the planter or drill to have a good deal of loose earth to drop the seed in. This, we think, is very important. Corn will grow if dropped on the hard bettom of a furrow and covered with soft and moist earth; but it will grow better if it is dropped in loose earth and then properly covered. For this reason it is better to plow in the fall deep what ground we expect to list in the spring.

> As to planting the old way, it is better to plant in freshly-plowed ground. That before planting, and for several reasons, but particularly because the ground becomes harder and dryer, and weed and grass seed germinate and may get the shallow plowing, indeed, a mere working with a good cultivator may be sufficient. If the ground was plowed well in the fall, or if it is soft and clean, it may be enough to plow shallow or cultivate deep enough to destroy any weed or grass plants already started and at the same time freshen up the surface for planting.

> Where soil is loose, it is well to press it up on the seed compactly. A roller following the planter is a good thing for this purpose; and where planting is done by hand, the foot or hoe may be pressed upon the covering with much advantage. This, however, as all other things to be done or omitted on the farm, needs the exercise of good, sound discretion. But it is always important to plant in loose ground.

The Elements of Our Nation's Strength An address delivered by S. H. Thomas, be-fore the Farmers' Institute at Ellsworth, March 13, 1885.

They all spring from the soil. There can be no civilization where the soil is not cul-Civilization never belonged to tivated. nomadic life. The Asiatic hordes that swept over Europe from the plains of Asia, had no civilization. Alike with the American Indian, they passed from country to country consuming the natural products of the soil, and moving on as rapidly as they were consumed. Wherever nations, or communities, or tribes have halted long enough to cultivate the soil, from instincts of selfpreservation, there agriculture gave a basis to civilization. Nations that have lived chiefly on commerce, have had to sell tle fruits of their labor in exchange for bread that was raised by other countries from the

The first institution ever established in the world was that of a family. Out of these primeval forces have sprung communities, laws, governments, religion, civilization, and the great multiplicity of the different vocations of life.

we again find another prominent feature of our national strength looming up prominently from all others, viz.: That of agriculture—the tilling of the soil, as it was the first, and is yet the most prominent occupation of man. It has been the chosen occupation of man. It has been the chosen occupation of man. It has been the chosen occupation of the great and good of every age. All the wealth of the world comes from the soil; hence, it follows that the ground was plowed in the fall deep, or if it be intended to plant in ground that produced corn last year and if the ground was well cultivated and is clean now, or if it be wheat or rye stubble and can be cleaned off by raking and burning, listing is in order in any sandy or loose land. The philosophy of listing is that the seed is planted deep enough agriculture-the tilling of the soil, as it was

the source of production?

This principle of modern science, as applied to agriculture, has only begun to be understood, even by the ablest agriculturists. And just in proportion as knowledge on these subjects, is multiplied, exactly in the same proportion wealth will be increased, and all the arts that adorn and embellish civilized life will be advanced. In this business, as in all others, the first thing to do is to discover mistakes and then remedy them. This can only be done by thorough investigation on the part of the progressive farmer. I am aware that the hardest obstacle to overcome in disseminating correct views on agriculture is not preconceived impressions, which by some might be called prejudices, but the actual dissemination, in too many instances, of false views. The time has come, when the best intellect of this nation is brought to bear in collecting and diffusing as widely and as rapidly as possible all the knowledge that the human race possesses in reference to this the greatest of all material questions-How to till our soil. Yet, notwithstanding all that has been said, it is an undeniable fact that there is no profession in life to-day which offers so little to attract the promising youth of our country as farming. This has been long a neglected matter. Farmers, it is time to awake from the 'ethargy into which we have fallen, and by a determined effort rise to the plane in which we should live, and gain for ourselves the respect of all who are assisting in building up the highest type of true American civilization.

THE MARKETS.

By Telegraph, March 30, 1885. STOCK MARKETS.

Chicago

Chicago.
The Drovers' Journal reports:
HOGS—Receipts 17 000; shipments, 6,000. The market was weak and 5c lower. Rough packing 4 30a4 55; packing and shipping, 4 50a4 75; light, 4 30a4 70; skips, 3 50a4 25.
CATTLE—Receipts, 8,000, shipments, 2 000. The market was slow: commen 10a15c lower; fat and heavy firm. Cattle averaging 1,050 to 1,5:5 lbs. 4 25a5 25; do. 1,350 to 1,600 lbs, 5 50a5 2224.
SHEEP—Receipts, 6,500; shipments, 1,5:0. The market was 10a20c lower. Cummon to medium, 2 50a4 25; good, 4 40a4 70.

Kansas City.

Kansas City.

CATTLE—Shipping steers, 4 35a4 65; stockers nd feeders, 4 20a4 50, HOGS—Choice assorted, 4 25a4 30; mixed, 4 10a

4 25
SHEEP—The receipts of sheep to day were large. It has been several weeks since so many common sheep were on sale. Buyers bid up to last week's prices. Good sheep are in first rate demand, but the common quality made a slow

PRODUCE MARKETS.

Chicago.

WHEAT—March, 751/4761/20, CORN—Cash 373/4401/20, OATS—Cash 30c, RYE—Dull 6 1/20, BARLEY—Dull, 62a63c, FLAXSEED-Firm, 1 38 bid. St. Louis.

WHEAT-March. 851/2c. CORN-March, 891/4c.

Kansas City.

Creamery, fancy fresh made....
Creamery, choice " "
Creamery, fair...
Creamery, inferior to common...
Choice dairy...
Fair to good dairy...
Storepacked table goods.....
We quote rolls:
Good to choice, wrapped....

Borticulture.

Wind-breaks on the Farm.

Every farm in Kansas needs protection against winds; not that wind in itself is any more dangerous in this State than in any other, or that there is any more wind in Kansas than there is action of wind on the soil and on animals here is more or less injurious to the farmer, as the particular circumstances may be.

The force and power of wind is much affected by the density of the atmosphere, and this is affected by altitude; that is to say, the air in a low valley is heavier than is the air on a high mountain. The denser atmosphere of the valley is more powerful when moved than is the mountain air, and because it is heavier. The principle is the same as that which governs the relative effects of heavy and light projectiles, as bers, etc. An inflated balloon could not produce comparative stillness on the lee injure any ordinary hard structure by being thrown against it, because it is light; but the same bulk of heavy material going at the same velocity would be very destructive.

The surface of Kansas is higher than that of Pennsylvania, for instance, and therefore the atmosphere here is lighter than it is there, and for that reason our winds are less destructive at an equal velocity than winds are in Pennsylvania. The "worm" fences in all the old States are often badly shaken up and blown away by winds. Our Kansas farmers often have very frail structures doing duty as fences and they are rarely moved by winds. The pioneer shanty in Kansas is a light box made of pine boards. It would seem that it could not face any wind of ordinary force, but it shakes a little and stays there. It is not the force of the wind, then, that we need protection against, but, as indicated above, its effects on soil and animals are serious to the farmer.

As to effect of wind on soil, it may be considered in two relations-(1) as to evaporation, and (2) as to actually moving the soil and blowing particles away. If any person does not understand how wind affects evaporation, let him consider why he appears to perspire more freely in a close room than he does in a room through which a current of air is passing; or why he does not seem to sweat as much on a windy day as on a still one in the same field and under the same temperature; or why, when he is warm and in a still place he fans himself. Evaporation produces coolness. Ice is manufactured in warm climates by means of evaporation. By wearing thin clothing, and that cotton, in warm weather, perspiration is evaporated more readily; hence one is cooler than if he wore a heavy wool suit buttoned closely. He would perspire freely, and as the sweat could not get to the surface readily to be evaporated, he would soon become exhausted from the effects of heat caused by suppressed evaporation.

If one will open a door between two rooms, one of which is heated and the other cold, and set a lighted candle or a burning taper on the floor in the middle of the door-way, he will observe that the flame is being blown into the warm room. If, then, he will hold the flame at the top of the door-way, he will observe the flame is blown into the cold room. The lesson is, that heated air rises and that cold air is drawn toward warm places. In summer, when the air is warm, the coolness of the soil goes up into the warmer air above it. There is a continuous effort of the moisture in the earth to get up into the hot air eighty rods apart, beginning on the above. Every person has seen cracks in south side. the earth as the ground becomes dry-

chimneys for the escape of moisture in sian mulberry and others, may be grown the soil. When the earth is pulverized well and deep there are no such openings for the escape of moisture, and tonwood, box elder and silver maple hence evaporation is not so rapid; still the tendency is the same, and the hotter and dryer the surface dust is made, the faster will the moisture below come up in any prairie region, but because the to saturate the dry earth above. It operates like a dry sponge or towel when one part of it is placed in water. It soon absorbs as much as it will hold, and if the temperature is high enough the evaporation from the towel or sponge will be much more rapid than it will be from the surface of the water itself, and the process can be greatly accelerated by letting a continuous current of warm air (wind) pass over it.

In short, evaporation on a farm is much more effective when wind is blowing than when the atmosphere is still, and there is to nothing stop the wind, though we may check its work in this respect a little by wind-breaks that will

As to moving the soil, every farmer in Kansas understands that. Our soil is generally very fine, and when the ground has been plowed and the top earth pulverized with harrow or roller, a strong wind in a dry time soon removes a great deal of it. This is not a common thing; that is to say, it is not a continuous, everlasting fact. But such things do happen when conditions are favorable. We have seen the heavens lurid with dust blown from fields, the air was full of soil, and the temperature was in the nineties. There may not be half a dozen instances of this kind in a year, and they may be of short duration; but about the equinoctial periods and in August or September, if there should be unusual dryness at those times, dusty days are to be expected. And the quantity of soil removed is large enough to be a serious affair sometimes.

There is no way to prevent this kind of soil movement but to roll the wind over the field, and that can be done only by a wind-break. If a person will stand in a grove or forest on a windy day, he will feel no effect of the wind, though by looking upwards through the openings among the trees, he may see play of the wind and watch the drift of dust and light articles, as straw, leaves, shingles and the like. A wind-break has the effect to raise the wind above it. A field sufficiently protected in that way would retain its soil as to winds.

Stock is affected by winds. As in summer, so in winter, it makes them colder. In time of rain, sleet and snow, wind increases the effect of cold. This every person understands, though be may not have thought about it. Wind has an effect equal to several degrees variation in temperature. To test this, let a person thinly clad stand a minute on a cold and windy day in a spot protected from wind, then go out into the wind and stand a minute. The temperature is the same in both positions, or very nearly so, but the effect in the wind is much more serious. This fact is suggestive of the remedy-a something to break the wind.

A high hedge fence is a good windbreak, but a grove of trees is better. There ought to be a break of some kind on every farm. A grove of trees forty or fifty feet high on one side a square quarter section would be ample protection provided there is a similar grove on the next farm. But it is better to plant hedges in the beginning for they will be more effective the first few years. And and west every twenty rods. In the meantime, let trees be grown in strips

Trees are easily started—some of the

hard ground. Those cracks are as best varieties for the purpose, as Rusreadily from cuttings if the soil is in good condition. Russian mulberry, cotgrow from two to six feet the first season from cuttings. Seed is better, of course.

To clean marble, brush off the dust with a piece of chamios, then apply with a brush a good coat of gum arable, of about the consistency of thick mucilage; expose it to the sun or wind to dry. In a short time it will peel off; if all the gum should not peel off, wash it with clean water and a clean cloth. If the first application does not have the desired effect, it should be tried again.

Johnson Grass Seed.

Fresh, well-cleaned Seed for sale at \$3.50 per bushel ash to accompany order. Descriptive circular sen application. JOS. HARDIE & CO., Selma, Alabama

STRAWBERRY PLANTS.—25,000 for sale. Varieties, Wilson's Arbany, Cumberland Triumbh and Crescent Seedling. Prices—\$2.50 to \$10 per 1,000, owing tyquatity and quality taken. Will sell whole lot at greatly reduced prices to any one or two parties who will take them up themselves. H. CLARKSON, 351 Tyler street, Topeka Kansas.

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[Established, Dade Co., Mo., 1857; Ft. Scott, Kas., 1865; Incorporated, 1834.]
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ORK NURSERY COMPANY (Established 1870). Nurseries and Green Houses at FORT SCOTT, KANSAS. Largest Stock of Nursery and Green House Plants in the West. BEAUTIFULLY ILLUS-TRATED CATALOGUE. NOW ready. Mailed to applicants free.

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THE MIAMI NURSERIES, Louisburg, Kansas, Offer for the Spring Planting their usual large stock of well grown; well assorted and finely rooted Fruit Trees and Plants. Estimates furnished free, and correspondence solicited.

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LARGE STOCK! LOWEST PRICES! Transplanted Red Cedare (sure to grow). Hardy Catalpa, Russian Mulberry, Cottonwood, Sycamore, Yellow willow, White Ash, Elm. Box Elder, Maples, Dogwood, Red Bud, Sweet Gum, Tulip Tree, Strawberry and Raspberry plants, Applescions and grafts, Peach pits, Slack Walnuis, the fainoss "Old Iron-Clad" Strawberry, the h rdiest and best strawberry et produce." Write for Price Lists.

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An Old Soldier's

EXPERIENCE.

" Calvert, Texas,

"I wish to express my appreciation of the valuable qualities of

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as a cough remedy.

"While with Churchill's army, just before the battle of Vicksburg, I contracted a severs cold, which terminated in a dangerous cough. I found no relief till on our march we came to a country store, where, on asking for some remedy, I was urged to try AYER'S CHERRY PECTORAL.

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PREPARED BY

Dr.J.C. Ayer & Co., Lowell, Mass.

Sold by all Druggists.

OPIUM SLAVERY!





The Veterinarian.

[The paragraphs in this department are gathered from our exchanges.—ED. FARM-ER.]

Cow Sick.—I have a cow that was taken sick February 18th. She eats everything that is put before her. She is lying down and cannot get up; her limbs seem to have no strength in them. She is ten years old, and not in very good flesh; skin tight. Please advise. good flesh; skin tight. Please advise. [Give 40 drops of tincture of nux vomica three times a day on the tongue. Apply of den blister to the spine, from root of tail to forward part of the loins. Keep bowels relaxed, give strengthening food in abundance. Turn her often and work her legs with your hands as often as you have leisure. Bend them by as you have leisure. Bend them by pushing her foot toward the body, then draw the leg out straight again, and

LAME COLT.—I have a large colt which became lame. Would limp a few steps at a time first. There seemed to be soreness in the stifle joint. I used a liniment which seemed to help him, but there still seems to be stiffness. When liniment which speemed to help him, but there still seems to be stiffness. When standing in the stable he will, at times, raise the leg up high and look around at the stifle joint. He favors the leg. What can I do for it? [It may be a sprain in the stifle joint. If so, your treatment should be continued. The looking back and raising the foot would indicate spavin or ring-bone; both of these cause pain, and a horse affected with either will act as described. A spavin comes will act as described. A spavin comes on the inside of the hock joint. A thoroughpin goes through the hock-joint, a curb comes just below the cap of the hock, a ring-bone comes just above the

RING-WORM ON BULL.—On the neck of my Jersey bull there is a bare spot about the size of two silver dollars. It is not sore, but destitute of hair. I attributed it to the collar, but to-day I noticed the cay that tands in the stell attributed it to the collar, but to-day I noticed the cow that stands in the stall next to the bull has some of the same spots on her neck. The cow seems to be annoyed by them, for she rubs her neck against things, apparently to relieve an itching. The bare spots on the cow are inclined to be a little raw, and look something like mange on a dog. She calved last July, and is now milking about five quarts of milk per day. She is day along with hay. She is in a good, warm stable, and is bedded with wheat straw. She seems in perfect health straw. She seems in perfect health every way else. [The disease is due to vegetable parasites, and is commonly known by the term ring-worm. A light dressing of Moore Brost, gelden blister will destroy the parasites and gure the will destroy the parasites and cure the

GLANDERS.—Suppose a horse has the gland rs and another takes it in the shape of farcy, is it curable? Please give a short description of the different kinds of farcy or any unmistakable symptoms of glanders till the horse is dead and post mortem examination?

What is the matter with my pies?
I have had a good many taken with what I would call bloody piles. They are about eight or ten weeks o'd. [In fully-developed glanders, the lining of the nestril becomes number a thin odor. the no tril becomes purple-a thin oderthe no tril becomes purple—a thin oderless discharge from the nose. As the disease progress s, the discharge becomes thicker sinks in water, and the discharge is offensive. The nostris become sore, the legs swell, hide bound, arpetite fails, horse grows poor, sor s spread over the body. There is but onereal tarey. It is a scriptious diseased adding to gland rs, symptoms, similar to the above. Nasal gleet, which comes from distemper, pink-eye, taking cold from distemper, pink-eye, taking co'd etc. is frequently taken for farcy, and will eventually run into that disease. In the early stages of the alloye diseases they are not contagious, but later they are. It is difficult to tell when that time arrives. In all cases we should first isolate and treat the animal. Dropsy is oft nealled water farcy, milk farcy etc. (2) Circ. the boos abground farcy etc. (2) Give the hogs charcoal golden seal. May apply root, sulphur and saltpeter in equal parts. Salt food well.]

Wants the Facts Known.

MR. EDITOR: I and my neighbors have been led so many times into buying different things for the liver kidneys and blood that have done us more harm than good, I feel it due your readers to advise them, when an honest and good medicine like Dr. Harter's Iron Tonic can be had. Very truly,

AN OLD SUBSCRIBER.

An Indiana farmer banished slops from the pig pen and gave his swine clear, pure water instead. He never had such firm, solid meat to put up before, he says.

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The fecundity and excellent nursing quality of the Merino ewes give them the first place in breeding for early lambs, says the National Stockman.

The wool business is not likely to be over-done in this country, as we do not supply our demands, and the market will increase as rapidly as the supply.

It is said that eggs from mature hens are much better for hatching purposes than those from young ones, as a larger proportion of them are likely to prove fertile.

YOUNG MEN!-READ THIS.

YOUNG MEN!—READ THIS.

THE VOLTAIC BELT CO, of Marshall, Michigan, offer to send their celebrated Electro-Voltaic Belt and other Electric Appliances on trial for thirty days, to men (young or old) afflicted with nervous debility, loss of vitality and man hood, and all kindred troubles. Also for their matism, neuralgia, paralysis, and many other diseases. Complete restoration to health, vigor and manhood guaranteed. No risk is incurred as thirty days trial is allowed. Write them at once for illustrated pamphiet free.

In pruning, it is well to cover the wounds with oil or white lead or grafting wax or shellac. Even the cut part of small branches had better be so treated.

It is Dangerous to tamper with irritating liquids and exciting snuffs. Use Ely's Cream salm, which is safe and pleasant and is easily applied with the finger. It curs the worst cases of Catarrh fold in the Head and Hay Fever giving relief from the first application. All druggists have it. Price 50 cents. By mail 60 cents. Ely Bros., Owego, N.Y.

I have been bothered with catarrh for about twenty years. I could not tell how many differ eventy years. I could not tell now many different remedies I have tried, and none seemed to reach my case like Ely's tream Balm. I had loss my smell entirely for the last fifteen years, and I had almost lost my hearing. My eyes were getting so dim I had o get some one to thread muscelle. Now I have my hearing as well as I even ad, and can see to thread as fine a needle as ever I did, and my smell is partly restored, and it seems to be improving all the time. I think there is nothing like Ely's Cream Balm for attarrn.—Mrs. E. E. Grimes, 67 Valley St., Renirill, Perry Co., Ohin.

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I have thirty breeding sows, all matured annuals and of the very best strains of blood. I am using three spiendid imported boars heaved by the spiendid prize-whiner Plantagenet 2919, winner of two 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 annuals. I rices reasonable Satisfaction guaranteed, Send for catalogue and price list, free.

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My herd is composed of twenty breeding sows of the
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ine heads broad hams great depth, with shert, strong
legs. They are perfectly marked, having good coats of
bair; with quality of bone that enables them to carry
areat weight, combining quick and easy feeding qualties. Stock all recorded in A. B. R. I am now pretrained to fill orders for pigs, of either six. Pricereasonable, Correspondence and inspection invited.

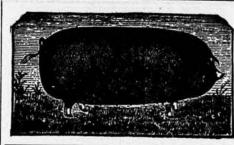
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At the head of our select herd of 25 matured sows, stand two noted boars, Kentucky King 2sell and Challence 4939, both prize-winn rs, and for individual meet unsurpassed in the State or shewhere. Stock of all ages generally on hand for sale. Pedigrees "gited edge," prices reasonable and sets feeting gnaranteed, Address. StEWART & BOYLE, Wichita, Kas.



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Poland-China Record.

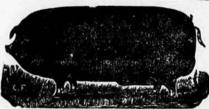
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Correspondence solicited. When writing mention

The Poultry Hard.

Breeding and Care of Poultry.

A Michigan poultry-keeper, F. W. Grinnell, some weeks ago gave the readers of the American Poultry Yard a sketch of his experience in the business, and much of it is of special interest to Kansas people. He says:

The first thing in breeding chickens is onstitution, and a strong one, too; this implies a full development of muscle and bone. Then when you have this made and well riveted together you are in shape to get up steam for the "egg race." To feed for the best development for eggs requires oats, wheat, corn for eggs, requires oats, wheat, corn, buckwheat, ground bone, oyster shells, and plenty of green food, grass is one of the best; while some are inclined to and plenty of green food, grass is one of the best; while some are inclined to feed corn meal quite heavily, I would not be in favor of it, as it will not make as good bone as some of the other grains. I think for the best development of your bird for egg production nothing is better for breakfast that one-third coarse corn meal, one-half coarse oatmeal, and one-sixth wheat bran mixed with hot water enough to wet it thoroughly and not make it sticky. You also want to feed meat occasionally. Now, if you follow up regularity of feeding with more or less variation of food for the other feedings except morning, your chicks by the 1st of November will be in shape to commence laying if they were April hatch. The more exercise they have up to this time the better, (provided they do not run in the wet.) Exercise will develop the muscle and bone.

Now comes a time when you can make your feed stronger in all except the corn, giving plenty of meat, ground bone, ground oyster shell, and plenty of

Now comes a time when you can make your feed stronger in all except the corn, giving plenty of meat, ground bone, ground oyster shell, and plenty of green food, cabbage, carrots, turnips, etc., and pure water and plenty of it. If you can keep your cockerels separate from the hens all the better. Care should be exercised not to over-feed, give just enough and no more. Keep your hens employed in looking for things, idleness leads to mischief with chickens as well as boys. They will scratch a floor of dirt over twenty times in a day for a kernel of wheat. A good plan is to cover up some grain with dirt or straw, and let them dig it out. After November first would feed warm feed in the morning and give them warm water. Cooked vegetables are relished by your fowls. seasoned with pure cayenne pepper. I will add here if you want good quality of eggs and healthy fowls feed only pure grain, do not feed trash. You can never depend on all kinds of fuel to make steam, and whatever the character of your feed is thus will be your egg, as the egg draws from all parts of the system in its formation. Study the requirements of your birds and give them what they ask for and the eggs will reward your labors.

I have referred to a plan for feeding

ward your labors.

I have referred to a plan for feeding with reference to eggs. I will not say anything now about the market, as that anything now about the market, as that is somewhat secondary to the egg, but if your birds have been handled as I have directed any surplus stock will be good enough for any table and far better than the majority of poultry in our markets.

In reference to feeding for the show ring, you are very apt in your desire to win the prize to feed a food which tends win the prize to feed a food which tends to fatten your fowls at the expense of the development of your bird in muscle and egg formation, as well as endanger the constitution of your birds. It is very seldom that birds which have been fitted thoroughly for the prize ring ever breed well. The number of eggs dimin-ished and also they do not batch. ished, and also they do not hatch. There is always trouble with show ani-

mals in breeding.

Who would sacrifice their good breeders for a few dollars premium they might win, and the honor? Not I! they might win, and the honor? Not I! I would rather gain a reputation of having a good egg strain than have the honors of the show ring. I have been there and know full well the cost of fitting and the loss of animals It doesn't pay, people want fowls that will breed and lay plenty of oggs and no matter what breed I keep I should aim for eggs, and select breed, and care for matter what breed I keep I should aim for eggs, and select breed, and care for my birds with reference only to this very important point. I wish to call attention to one more important point in connection with handling fowls, viz., cleanness, which if neglected will always result disastrously. First, keep your house clean and free from vermin. There are two kinds of lice which are very troublesome at times, one is the large grey louse, living and multiplying large grey louse, living and multiplying

on the bird, the other is a parasite which breeds in the droppings on the underside of perches, in any crack or crevice, and when once established in your houses are very difficult to destroy. They are very small, not larger than a small pin head when fully grown, and when first hatched are seldom noticed with naked eye; in color they are a reddish brown and as they grow assume a bluish tinge. I have seen them on the underside of the perch when it would look like one solid mass of blue parasites. They go up on the fowls at night and give them no rest, but at times they are so thick that they will kill your birds in a very short time. Another is the scale louse, which lives and breeds under the scales on the feet and legs, while they are so minute as not to be seen with the naked eye, yet they annoy your fowls very much and always leave the legs rough, the scales standing out at times like the cornice of the house. No chicken, no matter how well fed. can be kept in condition for egg production, if on the bird, the other is a parasite chicken, no matter how well fed. can be kept in condition for egg production, if you allow these pests to occupy the hen-

You may now ask how shall we keep them off or get rid of them if they once

take a foothold. Where your houses are kept clean and Where your houses are kept clean and the perches are rubbed over with kerosene oil often, a little sulphur put in the dust-box and an occasional sprinkling of house and ground with carbolic acid, you need not have any trouble with them; don't wait until they appear, make your premises distasteful to vermin before they give you a call

My rule is to sprinkle my houses and grounds once in ten days with crude carbolic acid and water in proportion of a large tablespoonful to ten quarts of water; also, I rub my perches over as often as I sprinkle, with a cloth saturated with kerosene oil, lard and sulphur.

water, also, I ruo my perches over as often as I sprinkle, with a cloth saturated with kerosene oil, lard and sulphur.

This mixture, formed of equal parts in weight, when mixed thoroughly forms a heavy cream. which you can keep for months. I also rub a little on each bird with my finger, on top of the head, under the wing and between the legs.

Another remedy equally as good and very simple is to give your birds a sponge bath of kerosene, which consists simply in saturating a sponge in oil and then squeezing out all that you can, and then go over your birds, lightly touching every feather (not the skin) with the sponge. Lice and kerosene don't agree.

If you follow out the above plans, you will not be troubled with lice or blue parasites. For the scale louse, wash your birds' legs with strong soap suds with a little carbolic acid in it, wipe them dry, and then rub their feet and legs thoroughly with the lard and sulphur mixture, and they will not annoy you.

Of the diseases of poultry, among which are roup and cholera, I will not now say much, only that if your premises are clean, and your birds properly cared for, you will not often be troubled with any disease. One point about disease is that it generally appears in a crowded yard, therefore don't try to do too much. Keep a few birds and keep them well. I often hear it said my birds are all right, but they don't lay. The facts in such a case are, your birds are not in condition. What the trouble is I could not tell without knowing how they had been cared for and seeing how they looked. Remember this, that nightly nightly and the property cared out of a hundred when is I could not tell without knowing how they had been cared for and seeing how they looked. Remember this, that ninety-nine cases out of a hundred when hens don't lay, the trouble is vermin—look out for them.

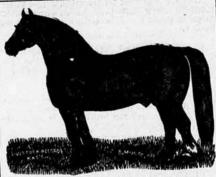
In conclusion let me say that take any good egg producing strain of fowls, and care for them from the egg to six months old as I have indicated, and they will give you eggs and plenty of them.

months old as I have indicated, and they will give you eggs and plenty of them.

If you are successful with your fowls you will find it work and study, study and work day after day, and three hundred and sixty-five in a year; thus with continual effort you will reap the reward of your labors in the finest eggs and chickens ever seen. and chickens ever seen.



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Oh lice stock for sale. Also some fine Grades. Correspondence rolleited and satisfaction guaranteed I have some Jacks for sale.

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Topeka, : Kansas. All stock registered. Catalogues free.

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DEGEN BROTHERS, Ottawa, III.,

Importers of N | RMAN HORSES. Large selection of imported stalliums and mares—50 head imported this season. We are also breeding full-clood and higher and the season. He are also breeding full-clood and higher and the season was also be an are fitting up one of the best sale barns and breeding establishments in the State, and will be pleased to show our horses to visitors. Correspondence invited.

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AND PERCHERON NORMAN

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Now on Hand.



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HEFNER & SON, Bethany, Missouri,



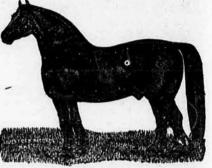
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NORMAN & ENGLISH Draft Stallions.

We keep on hand a choice int of Imported and High-Grade Stallious which are offered for sale at reasona-ble figures. Time given if required. Call on us.

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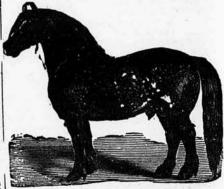
Elvaston, Hancook Co., Illinois,



IMPORTERS OF

Normans, Clydesdales and English Draft Horses.

Two importations of 1884 now on hand, and another large importation to arrive see. Having personally elected these horses from the best breeding districts of Europe, we offer a superior lot of these her es, unsurpassed in breeding as d individual excel-toos. All persons in search of first-class more will eave money by calling on us. Pires low, terms esy. Elvaston is on the Wabash and St. Loui-& Pacific R. s. x. miles east of Keokuk, Iowa, and fifty miles west of Bushnell, Illinois



CRESS BROS.

NORTH HILL STOCK FARM, Washington, Tazewell for, illinois, importers and breeders of Clydesdale, English Draft and Norman horses. With our recent id tition of a large importation August 20th together at those previously on hand have now one of the finest study in Illinois, CLYDESDALES made a specialty. Quite a number of them have distinguished themesives both in Europe and America as prize-winners this season. All are superbly bred. Visitors welcome, and all parties in need of such high-class stock would do well to give us a call and say money, as we will convince you when you call. Bend for catalogue. Reasonable prices. Trems easy.

THE STRAY LIST.

HOW TO POST A STRAY.

BY AN ACT of the Legislature, approved Feb 27, 1865, section 1, when the appraised value of a stray or strays exceeds ten dollars, the County Clerk is required, within ten days after receiving a certified description and appraisement, to ferward by mail, notice containing a somplete description of said strays, the day on which they were taken up, their appraised value, and the mane and residence of the taker up, to the Kamsas Farmal contained in said notice." And such notice shall be published in the Farmer in three successive issues of the paper. It is made the duty of the proprietors of the Kamsas Farmer to send the paper free of cost, to every county clerk in the state to be kept on fle in his office for the inspection of all persons interested in strays. A penalty of from \$50 to \$50 to is affixed to any failure of a Justice of the Peace, a County Clerk, or the proprietors of the Farmer for a violation of this law.

How to post a Stray, the fees fines and pen alties for not posting.

Broken animais can be taken up at any time in the year.
Unbroken animals can only be taken up between the ist day of Kovember and the list day of April except when found in the lawful enclosure of the taker.

except when found in the lawful enclosure of the takerap

No persons, except citisens and householders, can
take up a stray.

If an animal liable to be taken, shall come upon
the premises of any person, and he fails for ten days,
after being netified in writing of the fact, any other
citisen and householder may take up the same.

Any person taking up an estray, must immediately
advertise the same by posting three written notices in
as many places in the township, giving a correct decoription of such stray.

If such stray is not proven up at the expiration of
ten days, the taker-up shall go before any Justice of the
Peace of the township, and file an afflavit stating
that such stray was taken up on his premises, that he
did not drive ner cause it to be driven there, that he
has advertised it for ten days, that the marks and
brands have net been altered, also he shall give a full
description of the same and its cash value. He shall
also give a bond to the state of double the value of such

The Justice of the Peace.

Lall within twenty days

The Justice of the Peace.

description of the same and its cash value. He shall also give a bond to the state of double the value of such stray.

The Justice of the Peace stall within twenty days from the time such stray was taken up, (ten days after posting) make out and return to the County Clerk, a certified copy of the description and value of such stray. If such stray shall be valued at more than ten dol lars, it shall be advertised in the Kansas Farmmer in three successive numbers.

The owner of any stray, may within twelve monthfrom the time of taking up, prove the same by evidence before any Justice of the Peace of the county, having first notified the taker up of the time when, and the Justice before whom proof will be offered. The stray shall be delivered to the owner, on the order of the Justice, and upon the payment of all charges and costs. If the owner of a stray fails to prove ownership within twelve months after the time of taking, a com diete title shall vest in the taker up.

At the end of a year after a stray is taken up, the Justice of the Peace shall issue a summons to three householders to appear and appraise such stray, summons to be served by the taker up; said appraiser, or two of them shall in all respects describe and truly value said stray, and make a sworn return of the same to the Justice.

They shall also determine the cost of keeping, and the penalts the taker up may be a summon to the penalts the taker up.

itioe. They shall also determine the cost of keeping, and the benefits the taker up may have had, and report the same on their appraisement.

In all cases where the title vests in the taker-up, he shall pay into the County Treasury, deducting all cost of taking up, posting and taking care of the stray. One-half of the remainder of the value of such stray. Any person who shall sell or dispose of a stray, or take the same out of the state before the title shall have vested in him shall be guilty of a misdemeanor and shall seried to be subject to a sine of twenty dollars.

Strays for week ending March 18, '85

Reno county-W. R. Marshall, clerk. OOLT—Taken up by Vincient Baker, in Loda tp.
January 28, 1888, one fair-size black horse colt, few
gray hairs in forehead, 10 months old.

Strays for week ending March 25, '85. Lyon county-Roland Lakin, clerk.

Lyon county—Roland Lakin, clerk.

FILLEY—Taken up by J T Kirkendall in Emroria
tp, Feb 14, 1885, one 2-year-old iron-gray filley, white
face; valued at \$50,

HEIFER—Taken up by A P Walstrom. in Waterloo
tp, one roan yearling helfer, white on belly, no marks
or brands; valued at \$12.

2 STEERS—Taken up by E J DeLong, in Tremont
tp, Dec 5, 1884, two red and white spotted steers, one
a yearling and one "year-old, no marks or brands;
valued at \$25 and \$30, respect vely.

STEER—Taken up by J W Morgan, in Fremont tp,
Feb 19, 1885, one light roan yearling steer; valued at
\$26.

Jefferson county-J. R. Best, clerk. STEER-Taken up by Richard Spence, in Delaware tp. Nov 1, 1885, one light red steer, some white spots on sides, start in forehead, no marks or brands, 1 year old spring of 1884; valued at \$15.

Osage county-C A. Cottrell, clerk. HEIFER—Taken up by J W Nicolay, Pop Corn P C., Jeb 9, 1885, one light roan helfer with red ears, no marks or brands; valued at \$15.

Wabsunsee county-H. G. Licht, Clerk. STEER-Taken up by Margaret Krinitz, P. e. Bis nark, March 4, 1885, one verrling steer, under bit in ritear, dim brand on right hip not discernible; val-

Brown county-6. I. Prewitt, clerk. STEER—Taken up by F Cashman, in Powhatan tp, one ted steer. I year old, white spot in forehead, to other marks or brands.

Greenwood county --- A. W. Hart clerk.

Greenwood county...A. W. Hart clerk.

STEER—Taken up by Wm Launders. in Eurek tp.
March 2. 1885, one white 2-year old steer crop and
under-bit in right ear, ears light yellow. light yellow
spets on eides of neck and on shoulders; valued at \$20.

PONY—Taken up by W O Claycomb, Salem tp,
March 2, 1885, one brown mare pony, 13 or 14 hands
high, heavy mane and tail, branded on left hip and
shoulder with an indistinct brand supposed to be as h
p anchor.

HEIFER—Taken up by John Willie, in Bachelor tp.
Feb 7, 1885, one red yearling heifer, with white on
fare and helly, some white on tail, no marks or brands;
valued at \$40.

valued at \$10.

RTEEK—Taken up by D Cravens, Bachelor ip, Jan 2.

1885, one roan-speckled yearling steer, white on back and belly, no marks or brands; valued at \$18.

Strays for week ending April 1, '85

McPherson county--E. L. Lormis, clerk. 2 GE1,01NGS—Taken up by J. W. Moore, in Cartle tp, March 5, 1885, two gelding, each about 16 hands high and weighting about 1,000 pounds each, one is a light bay aud the other a dark bay, no visible marks except harness marks, but had on leather halters—ene with short rore, the other with short chain attached; valued at \$125 each.

Smith county—J N. Beacorn, clerk.
COW—Taken up by B. O. Williams in Lincoln tp.
ene pale red cow, point of right hors broken off, white
spot on belly, thin in fiesh; valued at \$25.

Russell county-H. C. Hibbard, clerk. BTEER—Taken up by J J. Johnson, in Fairview tp, February 18, 1885, one deep roan yearling steer, no marks or brands.

STOCK FOR SALE!

I offer for sale, on reasonable terms for pay ment, the following described property:

3,500 BEST GRADE OF MERIN / SHEEP—All bucks and ewes. Have been well wintered, are healthy and in fine condition.

75 HEAD THOROUGHBRED DURHAM COWS and Bulls - All pedigreed and of best strain.

250 HEAD OF GOOD NATIVE GRADE COWS. 25 F EAD OF GRADE BULLS. 50 MEAD OF HORSES.

All of said stock can be seen on Rock Hill Ranch, ten miles west of Washington, Kas. Prices and terms can be had from the under signed at Central National Bank, Topeka, Kas, EDWIN KNOWLES.

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POLLED ANGUS,
GALLOWAYS,
SHORT-HORN.

And Thoroughbred and Grade Cattle of all breeds

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> F. P. CRANE, Stock Yards, Kansas City, Me

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Stock Farm.

50 HEAD OF

IMPORTED NORMAN STALLIONS

Just arrived from France, added to my stock of Nor man Horses, which now numbers upwards of 100 HEAD, from 2 to 5 years old. Parties wishing to purchase first-class stock will do well to call and see my Normans before purcuasing elsewhere. Prices and terms to suit purchasers. All of the above stal-lions were selected by mys if in France this saason. (Mention this paper.)

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Fifty mi es south of Chicago, on the Chicago & Alton railroad.

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Isa Tonic, Appe-tizer and Blood Purifier for all live stock. The best Condition Powder in the world. 25 CENTS.

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The choicest herd of Herefords ever offered at Public Sale, will be sold at

Riverview Park, Kansas City,

APRIL 15, 1885.

This sale will include about 40 Cows and Helfers and 20 Bulls and Bull Calves, representative of the best blood in England, descended from the best herds of Lord Bateman, Aaron Rogers, Philip Turner, R. S. Burton, Thos Nott, T J. Carwardine, Major Carlyon, and other noted breeders of the choicest pedigrees and individual merit. As I am moving out of the country the BEST will be sold. A herd that I have spent 15 years in breeding and collecting. The Anxiety Bull, Troubadour 10220, has proved himself, as a breeder, the peer of any bull living. Emperor 2d 12435, is a wonderfully good two-year-old.

Catalogues sent to all applicants.

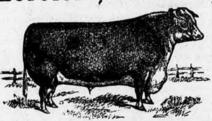
G. S. BURLEIGH, Mechanicsville, Iowa.

L. P. MUIR, Auctioneer.

N. B.—About 60 Grades, of both sexes, will be sold at same time, am my them ome good ones for Fat Stock Shows.

PUBLIC SALE

Hereford, Galloway and Angus Bulls!



RIVERVIEW PARK, KANSAS CITY,

Friday, May 8th, 1885.

Herefords, 16 Galloways and 4 Polled Angus Bulls. Many of these Bulls are of the very best strains of blood to be found in England and Scottand, the Herefords by such breeders as Thomas F.-in, Stonebrooke House; A. R. Boughten Knight, Downton Castle; Wm. Tudge, Lienthall: J. Pearce, Snowhill Court: P. G. Hughes, Stoke Castle, Craven Arms, etc. The Galloways are all from the famous herd of Thomas Wilken, Tinwald Downs, Dumtries, Scotland, and the Aberdeen Angus by A. R. Boughten Knight.

Terms of Sale:—Cash, or bankable paper. No reserve.

For Catalogues address Miller & Roddick, St. Denis, Baltimore Co., Maryland

L. P. MUIR, Auctioneer.

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PUBLIC SALE

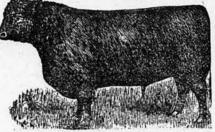
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8 miles east of Kansas City and 69 miles east of St. Joseph, on the Hannibal & St. Joseph R, R., on

TUESDAY, APRIL

ON OUR FARM, one mile east of town, under tent. The offerings will consist of 47 females and 13 young bulls, descendants of Imported Rose of Sharon, Bracelets, Rosemary Goodness Alice. Maud (Craggs), Maid Marions, Agatha, Red Rose, Branch Young Mary, Phyllises, Louans, etc., crossed up with some of the best sires in America. For individual merit, color and breeding they are hard to beat. Bulls extra good and of suitable age Lunch at 11 o'clock. Sale at 12:30. Conveyance free to farm. Catalogues now ready, with full particulars as to terms and full, noted pedigrees, which can be had on application to Col. L. P. Muir, Auctioneer. H. D. AYERS & SON, BRECKENRIDGE, MO.



IMPORTANT

PUBLIC SALE.

50 Head Pure-bred Imported

BULLS AND HEIFERS

Riverview Park.

Kansas City, Mo., Tuesday, April 14th, 1885,

The Property of JAMES CUNNINGHAM & SON, Dalbeattle, Scotland. These cattle have been selected with special reference to the Western market. They are all recorded in both the Scotch and American Herd Books, and embrace some of the best Galloway blood. Among the Bulls being the prize-winners VINDICATOR OF CLOSEBURN 1876, BRITISH HERO 1877. MARKSMAN OF DRUMLAURIG 1878, and many others from prize winning ancestors. The Heifers are descended from some of the choicest strains, and are all in calf or with calf at foot. Stock now on exhibit at Riverview Park, Kansas City, Mo. Catalogues ready. Address WALTER C. WEEDON & CO.,

Col. L. P. MUIR, Auctioneer.

Live Stock Exchange, Kansas City, Mo.

TERMS OF SALE:—Cash or approved bankable paper. AP N. B.—Remember it was a GAL-LOWAY which gained highest honors on the block at New Orleans.

The Busy Bee.

Spring Management of Bees. A correspondent of the Country Gen

tleman says:

Bees that are in the cellar that are quiet, and show no signs of diarrhæt. need not be removed until pollen can be gathered. If part of the bees were wintered upon their summer stands, watch can be kept of these, and when they begin to bring in pollen, those in the cellar can be carried out. Some bee-keepers who winter their bees in this keepers who winter their bees in this manner carry out the colony when they think there is pollen to be gathered, and when this colony does bring it in, they carry out the rest. If the bees are uneasy or show signs of dysentery, they should be taken out the first warm day and allowed to fly. If they are clustered closely, their bodies not distended, and no dark yellowish or brownish spots are seen on the frames, combs or and no dark yellowish or brownish spots are seen on the frames, combs or about the entrance of the hive, the beekeeper may rest assured that the bees are wintering perfectly, and there is no necessity of disturbing them. It will do no good, and may arouse them to an activity that will work injury. Instances have come to the writer's knowledge in which part of the colonies were carried out for a flight, and those that were removed subsequently suffered from diarrhœa, while the others were free from it. Such disturbance sometimes incites the bees to broodrearing, and the consequent consumption of pollen results in bee cholera. tion of pollen results in bee cholera.

After the bees have enjoyed a purifying flight, they should be returned to the cellar, and, if necessary, they can be carried out again, although bees that have become so weakened that it is necessary for them to have two flights necessary for them to have two flights in the latter part of winter, will usually dwindle away in the spring, and not prove very profitable; in fact, it is the opinion of some apiarists that "spring dwindling" is the result of imperfect wintering. The bees' intestines may not become loaded to repletion, and as there has been no discharge of fecal matter in the hive the beekeeper can enough to labor in the fields is about fifteen days; hence, brood-rearing should be going on very briskly five or six weeks before the opening of the honey harvest, that stimulative feeding will prove profitable, if ever, and, when commenced, it should be continued until the harvest begins there has been no discharge of fecal matter in t e hive, the bee-keeper can truthfully say that his bees have not had the diarrhea; but the bees have become so weakened that it requires only the cold winds of spring and the drain on the vital forces caused by brood-rearing to kill them. harvest begins.

In early spring, bees sometimes desert their hives by "swarming out," as it is termed. They issue in the same manner as does a swarm, and usually join some other colony in the yard. This abnormal swarming is caused by queenlessness, lack of stores, weakness (in numbers), encroachment of mice, etc., in fact anything that disturbs or renders uncomfortable the bees. If they are furnished with good warm hives, have plenty of good stores, a laying queen, and are in such condition that they can rear brood, they are happy and contented and seldom try to better their condition by migrating.

After the bees are set out in the spring, the brood will increase much faster if the hives are surrounded with several inches of chaff, or some similar material which will retain the heat. If the aplary is a small one, and Lang-stroth frames are used, it may be profit-able to confine the bees to only as many combs as they can cover, giving more combs only when they become crowded for room. The snugger and closer they can be packed up, the more brood they can care for, as a less number of bees are needed to keep up the heat, and a larger number can be spared to labor in the fields. The packing can be allowed the fields. The packing can be allowed to remain until the colony is populous and the weather quite warm.

and the weather quite warm.

If the bee-keeper is desirous of increasing the number of his colonies, he can, if he finds strong ones queenless, send South for queens, and introduce them, keeping the queenless colonies supplied with a little brood taken from others while waiting for the queens to arrive. The brood will make the bees contented, and prevent any trouble from laying workers. If the queenless colonies are weak, or the bee-keeper has as many as he wishes, it is better to as many as he wishes, it is better to unite the queenless with those having queens. The combs of a queenless col-ony can be carried with the adhering bees to the one with which it is to be bees to the one with which it is to be united, and hung in the hive alternately with those in the hive; the bees are so mixed up that they seldom quarrel, and the queenless bees are so glad to find themselves again in possession of a queen, that but few of them will return to the old location. A queenless colony can usually be successfully united with another colony, by simply shaking the queenless ony, by simply shaking the queenless bees down in front of the hive containing the colony with which they are to be united.

Stimulative feeding in the spring sometimes results advantageously, and sometimes not. It induces the bees to spread out, and start a large amount of brood, and, if the weather continues warm, and the honey harvest comes early, something is gained by stimula-tive feeding in the spring; but, if a warm spell of weather is followed by a cold "snap," the bees, unless well pro-

tected, and crowded upon a few combs,

are obliged to form themselves into a

compact mass in the center of the hive, the brood that is outside of the cluster

becomes chilled and dies, and the con-dition of the colony is decidedly worse than it would have been had no stimu-

and a laying queen, and then left undisturbed and unfed until the weather is warm. If the bees lack stores, and there are no combs of sealed honey to give them, it will, of course, be necessary to feed them. To do this, empty combs can be filled with sugar sirup, by pouring the sirup into a basin that has a large number of small holes punched in the bottom, the basin being held.

in the bottom, the basin being held about two feet above the comb, which

is laid down flat. When one side of the comb is filled, it can be turned over, and

the other side filled, and after the combs have been hung up, and allowed to drip, they can be given to such colonies as

Each bee-keeper should know when to expect the honey harvest in his local-ity, and should so manage as to have his hives overflowing with bees at its com-

mencement. Before and after the har-

mencement. Before and after the harvest, bees are consumers, not producers; so a hive full of bees in early spring is not so desirable as a colony only sufficiently strong as to be able to increase its numbers to the desired degree, by the opening of the honey harvest. From the legislate of the engagement of the legislate of th

the laying of the egg until its development into a bee is twenty-one day; from the hatching of a bee until it is old

need teeding.

harvest begins.

condition by migrating.

When bees commence rearing brood

when bees commence rearing brood they need water, and, when in the cel-lar, the want of water is often the cause of uneasiness. After being placed upon their summer stands, many bees are lost in early spring by being obliged to bring water on cold, windy days. Many bee-keepers have reported excellent results from giving bees water in the celler

Catarrh Cured.

A clergyman, after suffering a number of years

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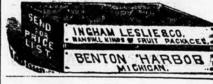
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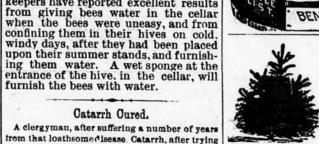


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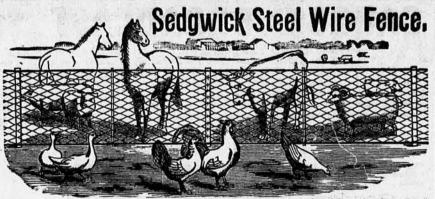
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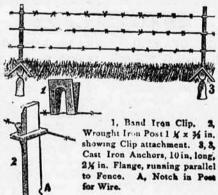
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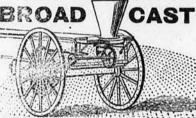
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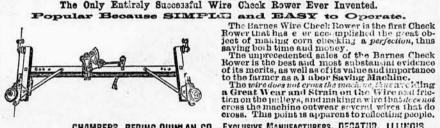
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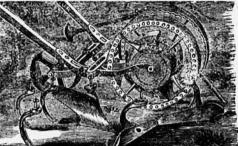
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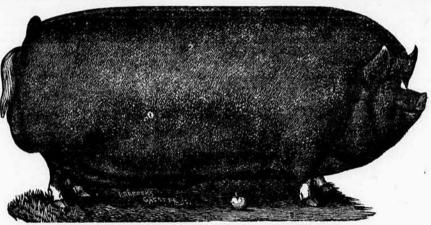
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