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Kansas Farmer:

The unparallelled loss inflicted upon the farming community by the chinch bugs the present year is the source of a great deal of anxiety to the farmers just now. It is true we have had and still have dry weather in many localities, but even in the dry districts our prairies all off. At the next meeting of

sufficient rain has fallen, had the bugs been out of the way, to have made at least a half crop of every kind of grain sown or planted this season. For several weeks now the fresh brood of bugs has been flying, and instead of thoroughly cleaning up a field of corn as they go which they did while on the forced march, they now have settled all over the field, and while not killing it outright are drawing so heavily upon its vitality that even with rains it cannot recover sufficient strength to drive out the ear. The second and third planting of corn is now being destroyed in that way, and millet and sorghum also.

In justice, however, to our section, I am very glad to say that in the south part of Osborne county there has been an abundance of rain and the corn prospects have never better. In the north part of the county, also, in some parts corn still promises well. But the fact remains that in the central portion of our county, embracing the Solomon valley, and by far the largest portion of the farming district of the county, our crops from first to last are a complete failure. And for this unfortunate condition of things we are indebted chiefly to the bugs. It is, therefore, by no means a matter of surprise that farmers generally are full of

inquiring "What shall we do, what can we do to stop the ravages of these bugs?" Let us not get excited and curse the country and the bugs, but let us calmly reason together. If there is anything we can do we should do it. If, on the other hand, nothing can be done, let us in the spirit of the true philosopher, accept the situation and make the best of it, trusting in the meanwhile to the good Father above who frequently leads his peo-"Through rough things up to the Stars." Ad astra per aspera you remember, is our motto in Kansas. In our anxiety for relief we should be careful not to resort to measures which may be disastrous to us in the future, while at the same time they may fail to accomplish the object desired. The burning of corn stalks and old trash of every kind on the farm, while I believe it amounts comparatively to but little in the destruction of bugs, yet on general principles I would destroy them. They possess no value as a modifier of climate and but very little as a fertilizer of soil, and whatever amount of bugs harbor in them are thereby destroyed. But when we begin to talk about burning

idea of, in that way, destroying the bugs and all their hiding places, it would be wise I think, to call a halt and consider well the probable results of such a course. This idea I see cropping out all over the State, and I heard a prominent farmer here who is president of a farmer's club say, "We must burn

illizer of soil. Passing over the latter idea, their value as a fertilizer, as a protector, a

The Chinch Bugs--How to Get Rid of the prairies of our country all over with the they have a double value. They are a modifier of climate, as trees are, and also a ferconservator of the health and vital forces of the soil which nature so wisely provides for herself, I will briefly consider the idea of prairie grass as a modifier of climate. Among the numerous agencies which contribute di-

SOUTHWESTERN BUSINESS COLLEGE, WICHITA, KANSAS. E. H. FRITCH, PRINCIPAL.

prairies. We will never get rid of the bugs until we do."

1 am radically opposed to this as unwise and disastrous. Were it true as asserted that the bugs harbor principally in the prairie grass in the winter, it does not follow that their destruction in whole or in part would be effected by burning over the prairies. My opinion is that the bugs, by pure instinct, would hug so close by the roots of the grass that the prairies being burned over not even the smell of fire would be left upon them. I remember in 1875 when young grasshoppers by the millions appeared on the prairie by the roadside. Farmers thought to utterly destroy them by burning the prairie. Some were killed in this way, but by far the greater portion of them passed through the fiery ordeal unharmed. Much less would chinch bugs be harmed in this way. If our prairie grass was of no more value than corn stalks and old trash on the farm, I would say burn it. Possibly the aggregate number of bugs might be lessened somewhat, but unlike the stalks and trash burning of a large district of prairie as a

so important as the suppression of prairie fires and the consequent accumulations of a mass of vegetable matter which serves as a mulch to the soil. . The cleaning of the soil and opening up of the pores of the earth which is done by cultivating the soil, is unquestionably an important agency also for the reason that the rains as they fall enter more freely into the soil and are given off gradually to the air, moistening and cooling it. But the area und ially in Central and Western Kansas, is as nothing compared to the area in prairie grasses, and these grasses accumulating for years constitute a mulch which in like manner holds the rains as they fall, imparting moisture and an invigorating tone to the atmosphere. Who that has passed through in a hot day in summer a burned district of prairie into a prairie district not burned, that has not experienced a marked difference in the atmosphere? In the former it is dry, hot, withering; in the latter, cool, moist and refreshing. I consider, therefore, the

public calamity from which the country will not recover until nature can restore again that which was lost by the fire. It is like the destruction of immense forests from the face of the earth. It is like making an oven of the earth's surface in which to roast atmosphere and send it in hot currents up to the regions above, there to scatter or drive away clouds which might otherwise

fall in rain. It violates the law and disarranges the plan ordained of Heaven by which rain comes to the earth. We will not stop at present to inquire into the philosophy of rainfall nor into the reasons why the burning of prairies disarrange Heaven's plan for watering the earth. The reader is requested to accept these as facts and pass on. With these facts in view certainly no one will think of burning prairie grasses for the purpose of killing off bugs. Some say we must stop raising all kinds of small grain for several yearswheat, rye, oats, millet, etc., and grow nothing but corn with the idea, I presume, of either freezing them out in the winter by depriving them of sufficient winter quarters, or starving them out in the early spring, as they would have very short rations until the corn would come on. I have but little faith in this theory. In cases where farmers have abandoned these crops for this purpose and the bugs afterward disappeared, the conclusion is jumped at that of course that was the cause; whereas, if the facts were known the abandonment of these crops had not in the remotest degree anything to do with it. My opinion is this: That all we can do aside from burning stalks, trash, etc., is to check their progress while congre-

alarm and anxiety for the future, and are our club we will bring this matter up. We rectly to that climatic change which has gating by plowing a ditch around the must have a law compelling the burning of come over all of Kansas, I believe no one is field and occasionally dragging a brush through it to keep the soil friable, but this amounts practically to but little, as in a few weeks they fly, and coming from all creation around they quietly get down to business and sap the entire field. There is but one remedy for this evil, that is rain, rain, RAIN -emphatic rains, powerful rains, such as Kansas is in the habit of getting up when she feels in the humor. If such rains come this fall it is safe to sow wheat if we desire to sow it. If such rains do not come it is unwise to sow wheat. If such rains come this fall or next spring it will be safe to sow or plant all kinds of spring crops. If, however, they do not come in sufficient quantities in our judgement to destroy the bugs, then in my opinion it would be unwise to plant much in the spring except corn. I recently saw a letter on this subject from Commissioner Colman, of the Department of Agriculture, and he takes practically the same ground. I believe the prayers of the people for rain will be heard. A prayer an earnest desire for some good, and in this sense everybody is praying for rain. As we know that nothing but rain can kill off these heartless crop-destroyers, we should pray often and well.

Downs, Osborne county, Kas. this fall it is safe to sow wheat if we desire

The Stock Interest.

OCTOBER 12-12.—W. T. Hearne and U. P. Bennett & Son, one or two days' sale of Shorthorn eattle, at Lee's Summit, Mo.

Some Thoughts on Feeding.

The animal organism is used by the farmer as a machine to work up his grass and grain into milk, tat, meat, etc. It is obvious that in order to have good and profitable work done the machine must be of the best kind and pattern, in best condition, and that the materials used in the manufacture must be the best and used in the most economical way. Besides these fundamentals, the farmer must consider what kind of goods he would have made, whether milk, and if so, whether that is to be used for making butter, whether lard, tallow, fat meat or moderately-lean meat, and he must feed accordingly.

The very large animal and the very fat one are not the most profitable to any one of the persons concerned in the making or the disposition of the carcass. A fair-sized animal matures sooner than a very large one, and is therefore more economical; the juicy meat which is most healthful and most in demand is that which has its fat among its tissues and not lying in bodies beside it. In connection with these matters feeding is very important, so that the best possible results are allowed and that no waste occur.

It has been demonstrated many times that if "full feeding" or feeding to fatten is not begun until the animal is matured, the lard or the tallow-the fat meat. It is understood on farms where one beef animal is killed every year for family use, that the best beef is made of an old cow or ox that is thin in flesh and fattened up as fast as possible. The reason of that is, that about all the meat put on the old frame is new meat, formed daily and hourly from the feed that would have formed fat largely had the animal been fat when the full feeding was begun. Such meat is all new growth, muscle and fat formed together during the process of growing. And that is an important fact to the farmer. If good meat is thus made by growing it on an old frame, why not adopt the same process on young frames and keep the calf growing right along fat from the beginning to maturity, and then dispose of the richest, juiciest meat ever made? That is the philosophy of meat-making. Breed healthy animals and start them on the way to market at the beginning. Make a business of feeding for good meat from the start. Keep the animal growing healthfully all the time; do not stop a day, for every stop is a slip backwards that must be regained.

In growing pork, if the hogs are kept in good growing condition all the time, greater distance than this in the same one of them may be killed at any time and the meat is excellent-much better than that of a big animal put into the colts to the trot as soon as they are in feed lot matured and fatted up in a few weeks, for it is a fact that in case of a bridle-wise. mature animal, already in fair condition, the fattening process does not materially increase the quantity of lean and clumsy. The journal above quoted consists principally in fat. This fact suppose that the draft horses cannot be shows, as suggested by a recent writer, trained to walk rapidly. We have been that the time when lean meat is formed breeding to a Percheron for four years, is when the animal is growing, and that that often walks nine miles in one hour the manner in which it is handled then and fifty minutes over a hilly road, and determines the quantity of lean meat- his colts are all rapid walkers. They are the only real valuable properties for not as large as some, but they are large human food it can ever possess-and enough to do any kind of farm work suggests that at that period the animal should receive generous keep, such as ment has been of very great advantage will stimulate the strongest and most to us in the last ten days when it was

versal of the practice on most farmstaken at the wrong end-where the with almost any kind of keep, neglected at the period where attention can be most profitably given, and the error only sought to be corrected after the period of profitable growth has passed.

Farmers need to study this subject thoroughly. If animals are raised for breeding as for work, while their keeping should be regular and orderly, their growth need not be pushed, and if a little slackening in feed happens occasionally, so long as good health and heart are maintained, there is not much lost. But not so with those which are raised for meat. It is economy to feed regularly no matter what the beast is destined for: but more especially is the matter important in case of animals intended to be slaughtered for meat. There should be a studied effort from the very beginning to keep up continuously the best growth consistent with good health. Prepare feed in season, plenty of it. It is always better to have more than is needed rather than less. Some hay, fodder, grain, straw. whatever it is, in good condition. Prepare shelter and all needed conveniences for the most economical use of the feed. Make a business of feeding. And then, as soon as the animal is full grown, or a little before if need be, dispose of it.

Teach the Horse to Walk.

How much this is neglected. A good walking horse is much too rare. Did the reader ever take note of the distance a horse or a man can walk in a day if he is "laid on," but not mixed with, the is a good walker? It is true that a good walking horse will travel thirty or forty miles at that gait much easier than at any other. A team of good walkers is worth twice as much as another team, equal in other respects that cannot walk well. A farmer with a good walking team on good roads is near town though he live ten miles out. He can go and return in half a day and not go out of a walk. A plow team that walks well is worth two teams that have no gait.

And if a horse is to be trained for speed, the first necessary step in the process is to teach him to walk. Wallace's Monthly correctly says that the walking gait is the most important for all other horses, and should be the first gait developed and perfected by the trainer, and, after a rapid, clean, strong walk is acquired, the speed gait should be attended to, though very carefully until they are brought to a good degree of proficiency. Horses may be made to attain almost incredible speed at this way of going, if due care is observed. We have known numerous road-bred horses that would walk from four and a half to five miles in an hour without urging, and many, in fact most well-bred road horses could be taught to cover time, if it were not for the pernicious custom (as we think) of putting the the harness and before they are really

Draft horses can be trained to walk well, even though they be very large meat, and that the increase in weight says: "It is a very great mistake to easily and rapidly. This rapid moveactive growth. In fact it calls for a re- desirable to get the corn ground in the old he will pay his way and at four or comes with the opening of spring.

best possible order in the shortest possi- five years will sell for twice as muchwhere the so-called feeding is under- ble time. Life is too short to be poking along after a team that cannot get their young things are compelled to put up heads up. The lazy man to whom exertion is a burden, actually works harder than the brisk, rapid worker."

Why Horses Shy.

I have never met a veterinary surgeon who knew anything about "cataract of the eye" in horses. I call it that as it is an expressive term. The trouble is the most general of any now affecting the horses of this country. It is the cause of nearly all, if not all, of the shying which surgeons fail to find a reason for except in "general cussedness." This cataract is of a brown growth, of a fungus nature, that spreads over the pupil from the top downwards. It has the appearance of a sponge growing away from its hold. It is difficult to see unless strong daylight falls upon the horse's eye exactly right. Then it can be seen plainly, a silent evidence of the animal's defective eyesight. I have examined horse after horse, and with but two or three exceptions out of about fifty I have found their eyesight thus affected. Of course it is worse in some than in others. It grows just like cataract or cancer; at first just dawning ominously on the upper edge of the pupil, then gradually extending itself. I have watched it expand on my own horse and its growth has been very marked in even the short time of two years. I have observed one thing about it that makes me certain that my conclusions are correct. Every shying horse I have examined has, without exception, been so afflicted. Never have I seen a horse shy whose eye was not clouded by this inexplicable growth. I began to study this curious defect after a long experience in trying to break my horse of shying. I took him to many veterinary surgeons, but all said it was his cussedness. I used to whip and punish him in every way to break him of it, but I could not. Now I remember how curiously he cocked his head at a suspicious object, just as a person with poor sight will try to get a better focus. Finally one day the light happened to strike his right eye and I saw the cataract. The whole thing was plain to me then. I have studied the matter carefully since, and the Globe-Democrat will be first to say anything about this prevailing effect. If anything has ever been published about it, and if any reason can be advanced I should like to hear of it. Whether it is because of the barbarous and cruel blinds which by shutting out the light and causing the animal to look forward instead of sideways, affect his eyes, or whether it is because of dark stalls, I cannot tell. But I am sure it is the cause of all the shying and much of the stumbling that now makes driving and riding so unpleasant and dangerous .- St. Louis Globe-Democrat.

Stock Notes

The colt should be halter-broke when a week old and when allowed to follow the mother be led at her side. Accustom the mother to work without its following her, and when plowing near enough to the stable leave it there and take the etc. Save \$50 by use of one bottle. Every mare in the middle of each day, to let bottle warranted by Swift & Holliday, drugit suck, or tie it in the shade at the side of the field.

There is no more profitable stock to raise than horses, always provided you raise good ones. If a mare be carefully handled she will do nearly as much work and raise a colt as though not bred, and it costs much less to raise a good horse than to buy one. It costs no more aside from the service of the horse to raise a colt to three years than a steer to the to do it. Besides all this it prepares the same age. After the colt is three years horses for the hard work which always

ordinarily-as the steer.

While some have a natural tact to see the good and bad points of a horse, and others have, by long experience and irstruction, become expert in looking a horse all over and through, almost at a glance, probably three-quarters or more of people are liable to make mistakes in buying a horse for work, for traveling, for riding, for wagon or carriage driving, or for any other purpose.

If it is true that the refrigerator people are making \$15 profit on every animal killed there ought to be a general scramble to "get in" on that layout. Such a profit on half a million cattle slaughtered would give seven and a half million dollars, or about 30 per cent. on the entire sum invested. Either the Trust is a good thing for its shareholders or these people who are crying stop thief are off their base.

When the larger animal has been secured by judicious breeding, with a fine dense or well-set fleece, equally distributed, shall we still further increase the wool-growing surface of the sheep by growing wrinkles? Ah! there is the rub. What volumes have been written on that subject. What hours have been spent discussing the question, and yet how various are the opinions of successful wool-growers on the subject of

Put the sow in the most perfect health, at least five weeks before farrowing. From that time keep it up. Put them on new, clean ground isolated from other stock. This is often half the battle. Examine the herd every day. If one lags back, is lame, or not squealing hungry, see what is the matter for certain. If there is a sneeze or cough. separate from the rest immediately and put in the hog hospital for treatment. Thus begin and thou shalt be saved and thy household of hogs. Physic them at least once a week and keep their bowels open by the best process known to you. as the young always suck all diseases from the mother, so through the mother it must generally be restored to health

Teach calves to feed from the pail, from

While fat in brood sows is a drawback, a vell-fed condition is an advantage

Look to the feet of horses; those at work on soft ground are better off if bare-foot.

Don't make your horses deaf by loud yelling. The louder you speak to them the louder you will have to.

Currycomb and brush well applied are the best medicines to aid horses and cattle while they are shedding their coats.

Impurities of the blood often cause great annoyance at this season. Hood's Sarsaparilia purifies the blood, and cures all such affections.

A strip of sheepskin, with long wool, tacked to the places where a horse sets its teeth, and dusted occasionally with Cayenne pepper, will, it is said, have a restraining effect on the worst "cribber."

English Spavin Liniment removes all hard, soft, or calloused lumps and blemishes from horses, blood spavin, curbs, splints, sweeny, stifles, sprains, sore and swollen throat, coughs

The farmer who does not plan and provide work for his teams every fit day during the winter certainly does not know what is best for his horses. Besides it being best to work every day it is economy to have them do it if the work is directed, even if hired help has to be employed to accomplish it. There is no better time to do heavy hauling on the farm than when the ground is frozen, and the teams are never in better condition

In the Dairy.

Keeping Butter for Winter.

In reply to a question from a correspondent of the Country Gentleman. Henry Stewart, the well-known authority on dairy matters, says:

"Some years ago, before creameries were invented, June-packed butter was the choicest of the winter stock. Dairymen packed all their summer make, stored it in spring houses, or dry, cool cellars, and sold the whole out in October and November to the dealers, who went around to find and purchase it, and a farmer who knew how to make and to pack good butter, was always sure of an acceptable visit from a buyer. There is a large scope for the same sort of business now, in spite of the creameries, for good butter-makers, and some with excellent pure-bred Jersey cows are selling butter in the West for 10 and 12 cents per pound. The method with these old dairymen, who are not-surpassed by any younger ones, was as follows:

"The butter was well made and of fine quality, and perfectly free from buttermilk; this is indispensable to the perfect keeping of butter in any package. The packages were (and should be now the white-oak pails, new and fresh and well made. These hold 50 pounds each. It was not painted, but oiled and varnished outside, and the cover fitted very closely, and was keyed down with galvanized iron clasps. The pail was thoroughly soaked with cold water over night, and in the morning when the butter was ready for packing, the pail was well scalded and then rinsed with salt and water. It was then rinsed with fresh cold water, and the butter was firmly packed down with the ladle, especially around the edge, with care to leave no vacancies, and to get out all the water. As much butter was packed at once as to make about four or five inches in the pail; this was pressed smooth and sprinkled lightly with the finest dairy salt. Then another layer was added, pressed down and salted, and so on until the pail was full to within one-fourth of an inch of the brim. This required precisely 50 pounds of solid packed butter, free from excess of water. The top of the butter pressed, not rubbed, smooth and level, was covered with a piece of washed new linen, dipped in brine, large enough to spread an inch all over the edge of the pail. This was spread and pressed down on the butter and covered with dry salt level with the edge of the pail. The edge of the cloth was turned back over the salt and pressed firmly around the sides of the pail, and covered with a piece of cloth cut to fit the top of the pail. The cover was then put on and pressed down with a small lever to pack the salt tight, and fastene and keyed down. The pail was immediately carried to the cellar-a clean, dry, airy one -and set upon a bench two feet from the floor, and never on the floor. Butter so packed would come out in the winter ripe and full flavored, and with that sweet, nutty taste and sweet odor which only ripe butter has. I have kept butter so packed from June until the early at four times as much as the prices current when it was packed; and this can be done again, for the butter so packed will keep much better in the grocery store after it is opened than the best new-made creamery will, and is consequently sought for by dealers in fine groceries."

Irregular feeding will do more to cause cows to dry off than any other method, while the practice of it is extravagant, inducing waste and loss of time.

Small Cheeses.

A writer in the Rural New Yorker, in speaking of ten-pound cheese, says: 'Cheese of this size and of good quality and purity could be sold with the greatest ease. They are of such a size as to be consumed while fresh and in the best condition, and, what is very important, any person can easily carry one from a store, so that there is no objection to purchasing them on account of difficulty in getting one home. If I were in the business of making cheese for family use I would have thin, light, wooden or strawboard boxes in which a cheese would fit nicely, and it should have a neat handle and be labeled with my name and the name of the firm, and branded 'Pure, whole-milk cheese for family use.' My butter in similar packages has sold for at least twenty cents a pound more than it would bring in ordinary tubs."

The Young America cheese sold in this market always at one-half to one cent above cheddars and flats weighs about eight pounds. We have bought these for years in preference to a cut out of a large cheese, and if made in such quantity that retailers could be always supplied with them, of good quality, they would lead to a largely increased domestic consumption of cheese. The suggestion to dairymen to put each cheese in a neat box with a handle, for convenience in carrying, and with the name and address of the maker is a good one. These boxed cheeses could still be shipped as the unboxed Young Americas now are, four in a large box, which when opened would still leave each cheese protected from the air, dust and flies by its own box. The Farmers' Review has abated not one jot of its conviction that the cheese dairymen's interest lies in furnishing the markets near him with a good quality of cheese of convenient size for family purchase and consumption rather than in depending mainly on a market four thousand miles

Cost of Keeping a Dairy Cow.

This will vary in different localities according to the value of land, the ease with which forage or grain crops can be produced on the farm, the prices at which supplemental foods can be bought and other conditions which may enter into the problem. The question was up for discussion in the meeting of the Wisconsin Dairymen's association last winter.

Mr. Curtis, of New York, estimated the cost of keeping a cow in that State a year at \$37. Another party in the same State placed it at \$37.50. A Wisconsin dairyman placed the bare subsistance ratio at \$20, and the same amount to be added for profitable dairy product, making a total of \$40. Prof. Henry, of the Wisconsin Agricultural college, put the cost at \$28.50. D. W. Hoard reported a dairy herd of fourteen grade Jerseys which averaged \$84.49 value of yearly product at a cost of \$35 per head for keeping. The average of the five estimates above given is \$35.60, and this is probably not far from the actual cost. Taking these figures as a basis, and knowing what he realizes each year from his dairy, the farmer can spring following and have sold it then approximate the average profit realized per head from his cows. At the same meeting the question of feeding grain to cows on grass was up. The general opinion expressed that it did not pay when pastures were fresh but did when they began to be short.

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ELM GROVE HERD OF REGISTERED POLAND-China Swine and Jayhawker strain of Plymouth Rock Fowls. Z. D. Smith, proprietor, Greenleaf, Wash-ington Co., Kas. Pigs, and Sows bred, for sale. Sa-isfaction guaranteed. Eggs \$1.25 for 13; \$2.25 for 26.

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My hogs are strictly thoroughbred, of the finest strains
in America. All breeders recorded in Ohio PolandChina Record. Chief Commander No. 6775 at head of
herd. Pigs for sale, from 2 to 10 months, from \$10 to \$25.

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BAHNTGE BROS., Winfield, Kas., breeders of Large English Berkshire Swine of prize-winning strains. None but the best. Prices as low as the lowest. Cor-respondence solicited.

F. M. LAIL, MARSHALL, Mo., breeder of the fines POLAND-CHINA HOGS AND PLYMOUTH ROCK CHICKENS.

Eggs in season, \$1 for 13. Catalogue free.

OUR ILLUSTRATED JOURNAL.—A full and complete history of the Poland-China Hog, sent free on application. Stock of all ages and conditions fo sale. Address J. & C. STRAWN, Newark, Ohio.

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SHEEP.

IMPROVED REGISTERED MERINO SHEEP. PO I land-China Hogs, Light Brahmas, Plymouth Rocks and Bronze Turkeys—all of prize-winning strains, bred and for sale by R. T. McCulley & Bro., Lee's Summis, Jackson county, Mo.

CHROPSHIRE-DOWNS.—Ed. Jones, Wakefield, Clay Co., Kas., breeder and importer of Shropshire-Downs. A number of rams and ewes for sale, at lewest prices, according to quality.

H. V. PUGSLEY, Plattsburg, Mo., breeder of Manual Sheep. Ewes averaged nearly 17 lbs.; steek rains, 34 lbs. to 3894 lbs. Extra rams and ewes for sale. Also Holstein Cattle.

POULTRY.

TOPEKA WYANDOTTE YARDS.—A. Sandy, proprietor, 624 Kansas avenue, Topeka, breeder of Golden, White and Silver Laced Wyandottes. Write for what you want.

HIGH-BRED LIGHT BRAHMA CHICKENS — In season. Also eggs, \$2.00 per 13. J. A. MeMahan, Box 229, Clearwater, Sedgwick Co., Kas.

T WILL PAY YOU — To send for our beautiful Illustrated Circular, full of valuable information. Sent free to all. Address C. A. Emery, Leck box 30, Carthage, Mo.

COLLEGE HILL POULTRY YARDS. — Pure-bred Brown Leghorn and Houdan Fowls for sale. Also eggs for sale. Send for prices. W. J. Griffing, Osi-lege Hill, Manhattan, Kas.

MRS. MINNIE YOUNG, Warrensburg, Me., breed-er of pure-bred Bronze Turkeys, White and Brown Leghorns, Light Brahmas, Pekin and Rouen Ducks. Eggs in season. Write for wants. Ne stroular.

TOPEKA POULTRY YARDS. — Wm. A. Baten, Topeka, Kas., breeder of Plymouth Rocks, Light Brahmas, Partridge and Black Cochins. Can farnish W. & B.Leghorns and W.F.B. Spanish. Bggs 62.35 per 15.

SUNFLOWER POULTRY YARDS. - T. S. HAWLEY, Topeka, Kansas, breeder of PURE-BRED POULTBY.

Leading varieties.

MARMATON VALLEY POULTRY YARDS MRS. ALLIE E. MILBURN, (Lock box 161), Ferr Scott, Kas., breeder and shipper of thoroughbred Lt. Brahmas, P. Rocks, Wyandottes, B. Leghoras, B. Javas, B. Cochins, Mam. B. Turkeys, and P. Ducks. Fowls for sale at all times. Send for circular. Cor-respondence solicited and cheerfully acknowledged.

LUREKA POULTRY YARDS.—L. E. Pixley, Eureks, Kas., breeder of Wyandottes, B. B. R. Games, P. Rocks, B. and W. Leghorns, Buff Cochins and Pekin Ducks. Eggs and birds in season. Write for what

N. R. NYE, Leavenworth, Kas., breeder of the lead-new ing varieties of Land and Water Fowls. DARK BRAHMAS a specialty. Send for Circular.

CHAWNEE POULTRY YARDS—Jno. G. Hewitt, D Prop'r, Topeka, Kas., breeder of choice varieties of Poultry. Wyandottes and P. Cochins a specialty. Eggs and chicks for sale.

MISCELLANEOUS.

TOPEKA TRANSPORTATION CO. - Office, 517 Kansas Avc., Topeka, Kas. Telephone 179.

VETERINARY SURGEON—Prof. R Riggs, Wichita, Kas. Custrating Ridgling Horses and Spaying Cuttle a specialty.

S. A. SAWYER, Fine Stock Auctioneer, Manhattan, S. Riley Co., Kas. Have Coats' English, Short horn, Hereford, N. A. Gallowsy, American Aberdeen-Angus, Holstein-Friesian and A. J. C. C. H. R. Herd Beoks. Compiles catalogues.

Devon Cattle!

Wε are the largest breeders of this hardy, easy-keeping breed, one of the best for the West. Stock for sale singly or car lots. RUMSEY BROS. & CO., EMPORIA, KANSAS.

TIMBER LINE HERD Holstein - Friesian Cattle.

We have for sale any or all of our entire herd of Holstein-Friesian Cattle, consisting of Cows, Heifers and Calves—full-bloods, and Grades up to fifteen-sixteenths. Ask for just what you want. Send for prices of family cows—grades. All our Holsteins will be at Winfield, Kas., after April 1, 1887.

W. J. ESTES & SONS.

HAZARD STOCK FARM ---OF-

NEWTON, - - KANSAS, Breeder of A. J. C. C. H. R.

Jersey Cattle.

The herd is headed by the Stoke Pegis Victor Hugo Duke bull, St. Valentine's Day 18278, and the Coomassie bull, Happy Gold Coast 14713. Sons and daughters by above bulls out of highly-bred cows, for sale for next ten days. S. B. ROHRER, Manager.

Correspondence.

The Bran Question.

Kansas Farmer:

"How to make beef the quickest, the cheapest and easiest way," is the title of a pamphlet which has been sent to me by mail by some unknown friend. Why the author has been too diffident to append his name is singular. After reading, I concluded it was incubated entirely among the bran manufacturers. It is true they have brought to their aid Professors Henry and Armsby. In their little catechism Prof. Henry says the millers don't pay him anything for his opinion as to the great merit of bran, but he spoils the whole business by intimating that they could well afford to. Perhaps he may own an interest in one of these bran-producing establishments, as I understand one of the principal advocates of bran as the ultimatum of all feeds (Guilford Dudley) does.

Mr. Dudley says, "Science seems to say that bran is 25 per cent. cheaper than corn meal." But is it an actual fact? In a ton of corn there is thirty-five and one-third bushels, and at 30 cents that would be \$10.60, and bran has been selling at \$11 to \$15 per ton. In regard to Mr. Dudley's steers of 1885, I believe he says they never had any other grain but bran. Now I will ask him whether these steers did not run in a feed lot with others that were fed on a mixed ration of corn meal and bran during the winter of 1885-86. If they did not, I have been misinformed. At the fair at which the seven steers were exhibited they were fed a ration of mowed oats, and Mr. D.'s foreman their oats green and making them into hay for their cattle. Now how much of this kind of hay did those experimental steers get? If they were fed any considerable amount, please don't put it all to the credit of bran.

Not in the little book, but in a newspaper article, Mr. D. says he considers bran superior (I don't remember his exact language) to oats as a food for work horses. Let us see. Everybody knows, and Mr. D. says so, too, that bran is a great milk producer. We all know that dairymen feed very largely of it because it makes the cow give milk, and milk is composed very largely of water. We feed bran to any animal that is costive or out of condition, because it is a laxative. If Mr. D. had a hard job of plowing or heavy teaming, or if he had to make a journey of fifty or sixty miles in his carriage in a day, or if he had a race horse that must run or trot this afternoon, would he feed bran in preference to oats because it is better as a muscle producer? Would he?

Now a few words in regard to the Minneapolis experiment of feeding the fifteen head of scrub steers. My recollection of a certain newspaper article from him is that they intended to experiment with "grade steers," but not finding them they had to take "scrubs." (Minnesota should go abroad and get some pure-bred bulls if grade steers are as scarce as this intimates.) Let us look at a few of the gains recorded in the table:

First month-No. 11 gained 63 lbs.; No. 9 gained 172 lbs. The 15 averaged a gain of

It is stated that the steers had been running on poor range; they were shipped in and put in a small yard. The change of position is very radical. It is conceded by feeders to be a fact that cattle taken from pasture to the feed lot do well to show any appreciable gain the first month.

Second month-Nos. 1 and 3 gained 50 lbs. each; No. 4 gained 17 lbs.; No. 13 gained 15 lbs.

Third month-No. 1 gained nothing; No. 14 gained 64 lbs.

Fourth month-No. 1 gained nothing; No. 11 gained 82 lbs.

for third month, 1.6 lbs.; for fourth month, 1.7 lbs.

The first month we have the phenomenal gain of 3.6 lbs. per day; for the next three months, when, according to precedent, we should have expected our best gain, we got less than 11/2 lbs. per day; and yet we are told "that they were fed three or four days (which?) before the test began, so it cannot be said that the phenomenal gain is partially due to their filling up after their hard jour-ney to Minneapolis." Oh, consistency! thou

art a jewel. Let us have "the truth, the whole truth, and nothing but the truth." I have used bran as an adjunct with corn and oats for more than twenty years, and I believe in that way it is generally worth what it costs. I have paid \$25 per ton for bran, but I must confess I think it was "dear for the whistle."

In the language of Guilford Dudley, "he who caused 3 pounds of beef to grow where but one grew before is a public benefactor." Aye, sir, but it seems they caused 3.6 pounds to grow before when not quite 11/4 pounds grew after. Gentlemen, you are interested in the sale of bran; it is for your interest that it be largely fed. No doubt many ought to feed it who do not; but don't, please, claim that all this is being done for the benefit of the poor, ignorant farmer.

Dover, Shawnee Co., Kas.

Manufactures in Kansas.

Kansas Farmer:

A friend in from our old home a few days ago tells me that of the four leading towns in the county, three of them are very dull, though one of them has had three railroads for a good many years, and the least one when I came away in '73, is the largest of the four without any more railroads than she had then. Further questioned he said that the fourth one first got a rolling mill, then a large wagon manufactory, then a manufactory for steam feeders, and one or two other small affairs, and now the city does more business than the other three. The story is short but it shows that even in the most fertile countries, with plenty of railroads, towns and cities can only rise informed me that they practiced cutting about so high without manufactures of some kind. And perhaps some of our cities that are voting bonds by the tens and hundreds of thousand for railroads when they have two or three now, could better invest part of their money in helping start a large manufactory that would help them more in the

But the question comes up where shall we get the power to run manufactories, for there is no coal only in the eastern part of the State to amount to much for manufacturing. About fifteen years ago I saw an editorial in the New York Tribune, stating that Kansas had the best water-power west of Massachusetts. I was surprised at the statement, but the more I have studied the question the nearer it seems to be true. It is well known that Kansas is part of an incline plane, and some of her rivers have as much fall in passing through the State as the Mississippi river has from head to its mouth. A survey of the Republican river here shows sixteen feet fall in three miles by section lines: by damning it they propose to force part of it into a canal and by carrying it along three miles on a level the east end will give a fall of sixteen feet. With plenty of water as we always have that would give plenty of power for a number of mills. The water then goes back into the river again. The river bottom is so that every turn along the river could have a canal, and I presume most of our Kansas rivers could be used in the same way.

Manufacturing centers should be near cities, for operatives like to have all the conveniences of life. Gov. Sprague, after the war, went south and found a good waterpower for manufacturing, and thought he would build some mills, and when he came back he asked his hands if they would go, and they answered by asking him if they had churches there. No. Schoolhouses? No. Were there theaters and newspapers? Oh, no. Then we shall not go. So the pro-E. W. BROWN. ject was given up.

Orops in Saline County.

Kansas Farmer:

drouth here. Small grain and millet not a Average daily gain for the 15 for first crop in this section of country. If Mr. A. month, 3.6 lbs.; for second month, 1.1 lbs.; H. Cox had sent his chinch bug remedy several weeks sooner, and it proved as good as stated, and I don't doubt it, and the farmers in these parts had used it, they would have saved enough for a lifetime subscription to the Kansas Farmer. In most places patches of corn as large as the patches of small grain adjoining them were destroyed by the bugs, even if a public road was between them. I believe the farmers in this country lose many times the price of the Farmer every year by not taking it. I will send you some more old agricultural papers.

A. Chenoweth.

Brookville, Saline Co., Kas.

Southwestern Business College, Wichita, Kansas--Its History.

The Southwestern opened its quarters to students on Monday morning, June 8, 1885, over the First Arkansas Valley bank, on Main street, where it occupied two rooms; one, 18x20, was used for a school-room, and the other for an office. Two students applied for admission on the morning of the opening, and by the close of the first month the number was increased to six. This limited increase is assigned to the fact that within the two years previous to the establishment of the Southwestern four attempts had been made to establish a similar institution by four different parties and four different failures was the result.

Citizens of Wichita had lost all confidence in the success of a business college, consequently were reluctant in giving the Southwestern attention or patronage until convinced that the kind of work done there was imperative to an advancing community and rapidly developing country. No sooner had this fact been established, when students came flocking in from all directions, and both school-room and office were crowded with students before November 1.

The next step was to secure more spacious quarters. Mr. Noble proposed to erect a block on the corner of Douglas and Topeka avenues, and arrange the second floor commodiously for the accommodation of this rapidly growing school. In January, 1886, the Southwestern occupied its new and handsomely equipped quarters.

The change of location did not seem to retard the stream of students, and before December, 1886, these quarters were found inadequate, and Mr. Noble has just completed a sixty-foot addition to the rear of the block, which is already occupied by this flourishing business institution. During the last twelve mouths over 400 certificates of membership have been issued. Many young men and women have graduated, all of whom are now occupying lucrative positions as book-keepers and clerks. Many inquiries have been made regarding the unlimited success of this business institution, and it was decided that the adoption of certain new principles, which greatly facilitate accounts, together with the mode of insruction, render the course much more practical and comprehensive than those used at other business or consnercial colleges.

It is the design of the teachers and principal to make the Southwestern the largest business college in the United States within the next two years. Write for circular.

FIRE-PROOF!

Prohibition carried in Daviess county, Mo., by 500 majority.

Send for Catalogue of Campbell Univer-

Government revenues in July were more than a million dollars a day.

Farmers and dairymen will do well to call and see our new Creamery Cans, for sale at J. J. Floreth & Co.'s, 713 Kansas avenue,

The Pope has decided that there is no ground for papal interference with the Knights of Labor question.

Itch, Prairie Mange, and Scratches of every kind cured in thirty minutes by Woolford's Sanitary Lotion. Use no other. This never fails. Sold by Swift & Holliday, druggists, Topeka, Kas.

It is estimated that the reduction of the public debt during the month of July amounted to \$5,000,000.

Send for copy of University Advocate, Holton, Kas.

Ohio Republicans, in State convention, put John Sherman forward as a candidate for the Presidency next year.

Boss Churns at lower prices than ever at J. J. Floreth & Co.'s, 713 Kansas avenue, Topeka, Kas.

Secretary Whitney announces that the negotiations which have been pending between the Navy and the Hotchkiss Ordnance company have culminated in a contract, the effect of which will be the establishment of a branch manufactory for the Hotchkiss ordnance in this country.

Send for copy of University Advocate,

The national committee of the Prohibition party are called to meet in Chicago, Ill., on the 16th of November, 1887, at 10 o'clock a. m., for the purpose of fixing the time and place of the national nominating convention of 1888, and transacting such business as pertains to the national committee.

Short-horn Bulls for Sale.

A number of choice young thoroughbred Short-horn bulls for sale at low prices and on satisfactory terms to purchasers. Address, at once, J. B. MCAFEE.

Topeka, Kas.

FACTORIES AT PHILADELPHIA.

BLACK DIAMOND PREPARED - ROOFING!

FOR ANY ROOF AND ANY CLIMATE.

Put on by Anybody! Ready to Apply! Cheapest Roof

IN USE!-



WATER-PROOF!

Corn and grass being seriously affected by Twelve Concerns Have Used About 700,000 Square Feet.

 Texas State Fair and Dallas Exposition Association.
 Square feet.

 Chas. Schmisseur, West Belleville, Ill.
 73,000

 St. Louis Press Brick Co., Collinsville, Ill.
 60,000

 Adolp'l Coons, Golden, Col.
 30,000

 Corsicana (Texas) Fair Association.
 20,000

 Belleville Nail Co., Belleville, Ill.
 20,000

 Iola Carriage and Omnibus Co., Iola, Kas.
 23,000

 Parker-Russell Mining and Manufacturing Co., St. Louis.
 20,000

 Tupelo Compress Co., Tupelo, Miss.
 16,000

 W. B. Kline & Co., Birmingham, Ala.
 16,000

 Saline County Fair Association, Marshall, Mo.
 10,000

 French Market, city of St. Louis.
 8,000

M. EHRET, JR., & CO., Sole Manufacturers. W. E. CAMPE, Agent. Warerooms and Office, 113 N. 8th St., St. Louis, Mo.

Gossip About Stock.

The cheering rains in various parts of the State this week have improved prospects considerably for stock raisers. A large acreage for rye pasture will be of immense benefit to all concerned.

Abilene Gazette: On Sunday morning twenty-one carloads of New Mexico cattle will arrive over the Chicago, Kansas & Western railroad, for Messrs. Ball & Blevins, and on the following day another train of twenty cars will arrive over the same line, for the same parties, making a total shipment of about 1,500 head of cattle.

Olathe Mirror: Mr. George Bolton shipped 202 fleeces, which brought him \$444.48, or a little over \$2 per fleece. After deducting all expenses his net returns were over \$400. Mr. Bolton commenced the sheep industry about ten years ago with thirty-three head; this year he sold over \$1,000 worth of wool and mutton, and has 330 head of sheep left on his farm at the present time.

G. W. Glick & Son, of Atchison, have now at the head of their Shannon Hill Stock Farm the 8th Duke of Kirklevington 41798, bought of John Wentworth, of Chicago. This bull is in thin flesh and weighs 2,500 pounds. He was bred at the Bow Park Herd, Canada, and cost Mr. Wentworth \$1,760 when six months old; was sired by Imp. 4th Duke of Clarence (33597), a pure Duchess out of Imp. Kirklevington 19th.

Oscar Voigtlander, of Ellsworth, writes: "You say on page 15 of your issue of July 21-'Many accidents will be avoided by putting brass knobs on the tips of the horns of cattle.' It strikes me that still more if not all accidents from horned cattle will be avoided by sawing the horns off. I had occasion to sell my dehorned cattle, and the man I sold them to says he never saw such quiet cattle. Saw the horns off and have no accidents.'

E. S. Shockey, Secretary of the Hereford establishment at Maple Hill, writes: "Extreme dry weather, causing such a scarcity of water, is forcing us to sell 500 head of very choice grade Short-horn cows and heifers at beef prices. They are too choice to go to the butcher; but go they must, unless some of your readers will come and save them from being sacrificed. We will sell all or a part of 200 head of very handsome yearling helfers, 200 head of 2-year-olds, or 200 head of solid red high-grade Short-horns with a very fine crop of calves at foot. The sale must take place within the next ten days at some price, and bargains can be ex-pected.

The public dispersion of finely-bred and well-conditioned Jersey cattle which took place at Newton, Kas., on the 27th ult., the property of the Hazard Stock Farm, was not as largely attended as anticipated, owing to the drouth and its dire results, causing every one to use care and judgment in each branch of industry. However, prices procured were exceeding good, all things considered, and the lucky purchasers may well feel proud of the choice bargains obtained at this offering. Ten males ranging in age from 2 months to 3 years brought \$310, or an average of \$31. Thirty-six females ranging from 3 months to 10 years of age brought \$2,875, or an average of \$79,86. Full total, \$3,185. At close of sale Mr. Rohrer disposed of several choice animals at private figures far in excess of those secured at public offering, which goes to show that it ever pays to propagate the best, and in this respect the Hazard Stock Farm, under the efficient management of Mr. Rohrer, is taking the foremost position as one of the finest A. J. C. C. breeding establishments in this country.

The fall term of Pond's Business College, Topeka, Kas., reopens September 12. Business and short-hand courses excellent-no better east or west, north or south. Come.

A special meeting of the stockholders of the Atchison, Topeka & Santa Fe railroad company will be held at Topeka for the purpose of voting upon a proposition to increase the capital stock of the company by the amount of \$7,000,000, making the whole amount of the capital stock \$75,000,000, and to authorize the directors to issue and dispose of the same. It is intimated that the purchase of an important Eastern line, which would give the A., T. & S. F. an outlet to the Atlantic, was soon to be consummated, and that it was for this purpose the bonds are issued.

Offensive breath vanishes with the use of Dr. Sage's Catarrh Remedy.

WESTERN KANSAS!

Full information regarding the great and rapidly-de eloping Southwestern Kansas given on application 200,000 ACRES OF CHEAP LANDS FOR SALE 200,000 AURES OF ORDER HARDS FOR SAILS.

Price \$2.25 to \$6.00 per acre. Terms easy. All inquiries about Western Kansas promptly answered, and the "Settler's Guide" sent free. Railroad fare one way free to buyers of a half section, and round trip fare refunded to buyers of a section of land.

Address DUNN & BELL, GARDEN CITY, KAS.

STIMMEL, ROBINSON & BRIGHTON

REAL ESTATE AGENTS. HUTCHINSON, - - - KANSAS.

10,000 acres of improved and unimproved land in Reno and Harvey counties for sale very cheap and on long time at 7 to 3 per cent. interest. Also farms and good pasture lands to exchange for merchandise or Eastern property. All kinds of stock taken in part payment on some of this land.

Correspondence solicited.

CITY HOTEL,:-: CHICAGO.

State Street, Corner Sixteenth Street.

Rate \$1.50 Per Day

Convenient to Stock Shippers. A good Family Hotel.

Table and Rooms first class. Statestreet, Archer avenue or L. S. & M. S. Dummy pass the house to all parts of the city and depots.

W. F. ORCUTT, Proprietor.

Cheap Homes!

MEADE COUNTY, KANSAS. Organized; county seat permanently located at Meade Center; building stone. Three Railroads coming at the rate of two index a day. Land cheap, but rapidly advancing. MEADE IS THE BANNER COUNTY OF THE SOUTHWEST, having won a special prize this year for county exhibit at the Southwestern Exposition, fifteen counties competing, and another at Dodge City Exposition over all competitors. Now is the time to invest. For further information address J. A. LYNN, Land and Loan Agent, Meade Center, Kansas. All representations guaranteed.

Only SHEEP DIP sold under Positive Guar-AB only Sheef bit so. Ten Years of Contin-antee. Never fails. Ten Years of Contin-uous Success. Nothing Poisonous about it.

ADD'S TOBACCO SHEEP DIP

Is guaranteed to ERADICATE 3CAB and VERMIN as surely in mid-winter as mid-summer. Those who have used other dips, with no, or partial success, are especially invited to give ours a trial. Its use more than repays its cost in an

INCREASED GROWTH OF BETTER WOOL.

Our new pamphlet, seventy-two pages, ready for free distribution. Send for it. LADD TOBACCO CO., 1319 Spruce St., St. Louis, Mo. [Mention this paper.]

CHAMPION Hay: Stacker: and: Rakes!

GUARANTEED TO BE THE BEST IN THE MARKET, AT THE FOLLOWING VERY LOW PRICES:

RAKES, EACH, \$20.00. STACKER, AT \$50.00. -:-

S. R. STOCKWELL, Agent, or & Griggs. Corner Sixth and Quincy Sts., TOPEKA, KANSAS. OFFICE-With Warner & Griggs.

The Greatest Importing and Breeding Establishment in the World! Its Importations of Percherons have Exceeded the Combined Importations from France of any other Eight Establishments of the kind in America.

1868.

July 20th, arrived at Oaklawn,

SUCCESS,

The first stallion ever imported direct from France to the State of Illinois, who still lives an occupies his stall at the farm, an object of interest as a famous and useful sire, who, by his valuable qualities, gave the most marvelous impetus to progress in horse-breeding ever known.

OAKLAWN MAINTAINS ITS PRE-EMINENCE

IN CHOICEST SELECTIONS OF

Percheron Horses!

Demonstrated the Value of Experience

1887,

At head of Oaklawn Stud stands

BRILLIANT,

The most renowned Percheron stallion of any period; his sons and grandsons having sold for larger individual prices and a higher average than ever before known. His produce is being sought after by the best breeders of the country for the heads of their studs.

SUPERIOR QUALITY OF THE STOCK IN ITS ANNUAL IMPORTATIONS FOR 1887, NUMBERING ABOUT 300 HEAD,

And including the First-prize Winners of the last and Greatest of all the Horse Shows of France the present year, held at Mortague, by the Society Hippique Percheronne. At this show were exhibited about 400 pure-bred Percherons, being three times as many sawere shown at any other Fair of France this year.

All the First-prize Stallions but one and Eleven Other Prize-Winners of this show were part of the stock previously selected in person by M. W. Dunham, for importation to Oaklawn Farm, Wayne, Ill.

FRENCH COACH HORSES --- 50 STALLIONS AND MARES,

Selected from the best breeding establishments of the country, several of which have never heretofore sold to a private individual until the French Government had made its selection and purchase from the stable. This lot comprises nearly all the prize stallions of the Government Show of 1887, and three of the five stallions entered for the French Derby Trotting Stakes—value 125,000 francs. The Coach stallions combine size, action, beauty and endurance; weight 1,200 to 1,500 pounds. These horses are the get of stallions owned by the French Government, and are all large (16 hands or over) good actors with fine symmetry; in fact, the best lot ever seen together. The mares are of the choicest individual excellence, and bred to Government stallions.

TWO IMPORTATIONS ON THE WAY.

ANOTHER TO ARRIVE BY SEPTEMBER 1st.

Permanent Success in Breeding Assured Only by Selection of the Best.

Visitors welcome. Carriages at all trains. Send for 200-page catalogue, illustrated by Rosa Bonneur. Address

M. W. DUNHAM, Wayne, Du Page Co., Illinois.

Campbell University,

HOLTON, JACKSON CO., KANSAS.

FALL TERM Opens September 6, and Continues Ten Weeks. Tuition \$10.00 Per Term.

THE PREPARATORY COURSE—Requires two years, but when good grades are brought by the students, they may be excused in some of the lower branches. This course prepares for the Collegiate course, here or elsewhere, or to those who can remain in school no longer it of the lower branches. This course prepares for teaching in county or village schools of three or four departments. At this point students may elect the Classical, Modern Language, Science or Mathematical course, requiring two years more.

THE PREPARATORY MEDICAL DEPARTMENT—Receives students from any good preparatory school, and in one year fits them for the second year of any Medical College in America into which they can enter without examination.

THE DEPARTMENT OF MUSIC—Is now thoroughly equipped. The Department has four pianos and two organs, with freedom to use the Department of the properties of the constant endeavor has been the COMMERCIAL DEPARTMENT—In its new rooms will be made more efficient than ever before. The constant endeavor has been the work superior to that found elsewhere in the West. More real work and less "red-tape" give our students more practical ability. The Department will occupy two elegant rooms. The actual business plan is pursued along with the recitation plan.

THE TELEGRAPHIC DEPARTMENT—Is now to be thoroughly equipped in three rooms with facilities for practical work. Type-writing, Phonography and Stenography are taught by competent instructors. Practical office work is given both in the rooms and in connection with the Commercial Department.

NATURAL STUDIES, NATURAL METHODS, ELECTIVE STUDIES.—Students can extend the properties of the content of the properties of the content of the practical department.

NATURAL STUDIES. NATURAL METHODS, ELECTIVE STUDIES.—Students can enter at any time. Board, \$2, \$2.50 and \$2.75 per lek. No extra charge for Penmanship, German, Bookkeeping, Vocal Music.

***SEND FOR A COPY OF THE CATALOGUE.

The Bome Circle.

A Song of the Sunset Land.

In the far-off hills of the sunset land; In the land where the long grass bends and

In the land where the long grass bends and quivers,
Where the ghosts of night and morning stand
By the gleams and dreams of the lonely rivers,
Where the brown sedge waving, stoops and shivers
At the water's edge in the sunset land.

Through the trackless paths of the sunset Where the silence broods in a dream un-

broken,
And the days slip by like grains of sand,
Where the song unsung and the word un-

Seem like a part of a nameless token
Of the wild gray wastes of the sunset land.

On the snow-clad peaks of the sunset land;
As they ride in the clouds so near to heaven
In shadowy vastness, stern and grand;
Where gaunt old pines by the lightning riven
Moan in the wind, through their branches
driven

'Mid the rolling plains of the sunset land,
Where the echoes drift in the tufted heather,
In the wake of breezes sweet and bland;
Where the shadows go in a troop together,
Across the haze in the fair June weather
In the grassy dells of the sunset land.

On the crags and cliffs of the sunset land.

By the wand'ring streams of the sunset land Where the ripples rise 'mid the tall reeds bending And float away to an unknown strand; And the shade and the sunlight slew descending Falls where the voice of the waters blending Sings of the sunset land. —Ernest McGaffey.

This is the state of man: To-day he puts forth The tender leaves of hopes; to-morrow blos-

The tender leaves of hopes; to-morrow blossoms

And bears his blushing honors thick upon him;
The third day comes a frost, a killing frost, And, when he thinks, good, easy man, full surely
His greatness is a-ripening, nips his root, And then Le falls.

—Shakespeare.

Age sits with decent grace upon his visage,
And worthily becomes his silver locks;
He wears the marks of many years well spent.
Of virtue, truth well tried, and wise experience.

—Rowe.

Force never yet a generous heart did gain; we yield on parley, but are stormed in vain.
—Dryden.

Ready While You Wait.

"While you wait!"

It is now many years since this expression was made popular by a down-town hatter, who advertised to "block your hat while you wait, for 50 cents," but it still retains its value in a commercial sense, and has been appropriated by the manufacturing world generally throughout the length and breadth of the land. As originally applied to the hatter's business it was ridiculed, laughed at, and criticized perhaps more than any other expression of the kind, unless it be the oft-quoted "boots blacked inside," and yet to-day it is an important line in the advertisements of nearly every manufacturing interest in the United States. Do you want a pair of trousers, a suit of clothes, a shirt, your shoes soled and heeled, a new mainspring in your watch, a set of false teeth, a house built-do you want anything that can be made by the hand of man-you can get it "while you wait."

At a certain haberdasher's shirts can be had to order, made after any pattern, in any size, guaranteed to fit and ready to wear while the customer is getting shaved around the corner. It is accomplished by having ready cut sleeves, yokes, bosoms, bands and bedies always on hand. A capable cutter with a few flashes of his big shears will correct the defects of any of the parts, skilled operators will run parts through the sewing machine in a twinkling, while a patent washer, rinser, wringer, dryer and ironer will turn the shirt out ready to be put on, and all inside of twenty minutes.

In a certain street, within the shadow of police headquarters, there is a concern that will sole and heel your shoes while you look over the columns of the daily paper and determine to what place of amusement you will go in the evening. The tailors on the Bowery who will measure a customer for a pair of pants, cut, trim and make them and press them while he is taking his lunch are numerous, while those who will turn out a full suit of clothes while the curtomer is taking in some of the theaters near by are quite as many.

Dentists, who have in steck all kinds, varietles and qualities of plates, and will fit a patient's mouth with a partial or full set of teeth in less time than it ence took to draw sity.

a single tooth, abound on Eighth, Sixth and Third avenues, as well as some of the cross streets. In Chicago there is a dentist who advertises to furnish new and full sets of teeth, guaranteed to give satisfaction, by mail or express, and sends the same to remote points on approval. A firm of builders in Michigan will ship at once on receipt of order any size, kind or variety of a frame structure that may be desired. Parties intending to locate in Florida or at the seashore are especially requested to send for a descriptive circular. These houses are built in sections and shipped as they are built. An hour's work, the proprietors say, will make any changes that a customer can possibly want. Several persons who will summer at Asbury Park and Ocean Grove this year, it is understood, will introduce these ready-made homes there early in the season. The same manner of houses were prepared for the late Greely relief expedition.

The secret of cleaning and repairing watches while you wait is, according to the assertion of the manufacturers, that the entire movement is taken out and a new one of the same kind is substituted. Now that most of the movements sold are made by machinery and of standard sizes, just as the cases of a watch are made, it is easy to see how this can be done. Persons having a Jurgessen or any other valuable movement, however, would do well to pause before they have a watchmaker repair their timepieces while they wait. Still, there are parts of a watch movement that can be duplicated at almost a moment's notice without affecting its value, such as pinions, ratchets, gear wheels and screws.

The science of cutting, fitting and trimming ladies' garments has progressed to such an extent that a dressmaker very often makes an entire suit for a customer while she is finishing a shopping tour, and, as is oftentimes done by men's tailors, habitmakers cut, fit and make dresses while a customer waits in the parlors. Printers will prepare a form for a job, make it ready, and run off an order while a customer writes a letter, and recently the writer had a card engraved and printed while he selected a wedding invitation for a friend. Until recently the ease and dispatch with which a man could get a divorce in some of the Western courts was set forth in the assertion "that railroad trains stopped thirty minutes at certain towns, where all who desired could secure a divorce while they waited." Without going to this extreme, it is safe to say that to-day a man can get almost anything while he waits.—New York Mail and Express.

To Oheck Bleeding.

The natural process by which bleeding is stopped is the formation of a blood clot which plugs the orifice of the divided vessel. When an artery is divided the cut end retracts or shrinks so that the formation of a clot is facilitated, but the blood current is so strong, unless loss of much blood has diminished the force of the circulation, that it hinders the coagulation. It should, therefore, be the aim of an assistant to check or stop the flow of blood from the artery in order that the beginnings of clot formation may not be swept away by the current. This may be accomplished by pressing upon the orifice of the vessel in the wound, or by pressing the edges of the wound firmly together, or, in cases where this not easy and efficient by compressing the artery which supplies the part from which the hemorrhage is taking place in some part of its course between the heart and the injury. The main arteries supplying the head lie in the neck, one on each side of the windpipe, where their pulsations may be readily felt. In case of a wound of an artery in the neck, the cut ends of the vessel should be compressed with the finger, if possible, or the artery, both below and should be pressed firmly backwards against the backbone. Unless skilled surgical aid can be speedily obtained, there is little hope of saving life in case these great vessels are wounded .- Good Housekeeping.

A very large number of Irish names end with "agh." Agh generally means field in Irish. Thus: Cavanagh means hollow field; Currah, race field. It is not improbable that these names were originally given to people who dwelt in or near localities which were indicated by the name.

Send for Catalogue of Campbell Univer-

Notes and Recipes.

Try buttermilk for the removal of tan and walnut stains and freckles.

It is well to varnish an oilcloth twice a year, and if you do, a good one will last as long as you will want it to..

White paint that has become discolored may be nicely cleansed by using a little whiting in the water while washing.

To clean satin that has become greasy, sponge lengthwise, never across the width, with benzine, alcohol or borax water. Press on the wrong side.

It is said that white spots can be removed from furniture by rubbing with essence of camphor or peppermint, and afterwards with furniture polish oil.

Velvet wears better, if brushed with a hat brush, by pressing down into the nap and then turning the brush as on an axis, to flirt out the lint. Do not brush backward or for-

Keep cut flowers fresh for several days by filling a vase with clean sand, to which is added a liberal supply of powdered charcoal. Imbed the stems of the beuquet in this, and water occasionally.

Saleratus is excellent for removing grease from woodwork which has not been painted. Spread thickly over the grease spots, moisten, and after it has remained a half hour wash off with tepid soapsuds.

Glycerine in its pure state should never be used for chapped hands, as it absorbs moisture from the skin, leaving it dry and liable to crack. When moderately diluted with water, however, glycerine is an excellent application.

Steamed Pudding .- Two eggs, one cup of sugar, one cup of sour milk, one teaspoonful of soda, one-half teaspoonful of salt; add flour to make a stiff batter; one cup of currants or raisins. Steam in a buttered pudding dish one and one-half hours.

Clothes of wool which are rarely brushed and never hung out-of-doors soon come to have an appearance of long use, when the same clothes, if carefully brushed every day and frequently hung out-of-doors, will always be fresh, and will keep their good looks much longer.

Hard Sauce. - One large cup of powdered sugar whipped to a cream with two tablespoonfuls of butter, one great spoonful of current jelly beaten in well, as much cinnamon as will lie on a half dime; when mixed heap on a saucer or glass dish and set in a cold place to harden.

It is better to hang than to fold almost all dresses that are not wash dresses, if one has sufficient room; but if the room is limited and the dresses crowded if hung, then they should be folded, as anything is better than the "stringy" look which dresses crowded together in a small closet may soon acquire.

Oatmeal Crackers.—Two cups of oatmeal and one of prepared flour, half cup of butter chopped up with meal and flour, one teaspoonful of salt, two cups of cold water. Mix into a pretty stiff paste, roll into a thin sheet, cut out as you would biscuits, and bake on a griddle, turning when the under side is brown; leave them in a cooling, open oven over night to dry.

The trimmings of cold boiled or roasted ham may be utilized in a very appetizing breakfast dish of ham and eggs on toast. Chop the ham fine and spread it upon delicate slices of buttered toast, and place in the oven for three or four minutes. Beat up six eggs with balf a cupful of milk; add a little pepper and salt. Put this in a saucepan over the fire, add two ounces of butter and stir till it begins to thicken. Take it off the fire, stir for a moment, then spread on the ham and serve immediately.

Good Coffee.-The best coffee is made from mixed Mocha and Java berries, carefully roasted and ground. Pour a coffeecupful into a pot that will hold three pints of water; add the white and yolk of an egg, or two or three clean egg shells, or a wellcleansed and dried bit of fish skin the size of a ninepence. Pour upon it boiling water, and boil ten minutes. Then pour out a little from the spout, in order to remove the grains that may have boiled into it, and pour back into the pot. Let it stand eight or ten minutes where it will keep hot, but not boil; boiling coffee a great while makes it strong, but not so lively or agreeable. If you have no cream, boil a saucepan of milk, and, after

pouring it into the pitcher, stir it new and then till the breakfast is ready, that the cream may not separate from the milk.

The Distance of Planets.

The following table gives the distance from the sun of the planets:

Venus 68	Miles.
v enus 68	,000,000
	,000,000
Earth 91	.000,000
Mars 145	,000,000
Asteroids 260	,000,000
Jupiter 494	.000.000
Saturn 906	.000.000
Uranus1.822	.000.000
Neptune	,000,000

It will be seen that the farthest planet from the sun is Neptune, and the nearest, Mercury. The one is invisible to the naked eye from its remoteness, the other from its contiguity. The largest is Jupiter, the smallest, Mercury, whose diameter is but a fourth larger than the moon, while the diameter of Jupiter measures 92,000 miles, the earth's being 8,000. These having satellites are Jupiter, four; Saturn, eight; Uranus, four; Neptune, one. Venus and the earth are very near alike in size. Mars is smaller, having a diameter of about one-half of either of the other two, or one-sixth their bulk.

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4 Diarrhea, of Children or Adults...
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6 Cholera Morbus, Vomiting.
7 Coughs, Cold, Bronchitis.
7 Generaligia, Toothache, Faceache...
9 Headaches, Sick Headache, Vertigo. CURES

HOMEOPATHIC

10 Dyspepsia, Bilious Stemach. 25
11 Suppressed or Painful Periods. 25
12 Whites, too Profuse Periods. 25
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PEC'FICS

The young folks.

The Dinner Horn.

When lazy dials point to noon, And clocks are chiming out the hour; When sable Phillis 'gins to croon, And pigeons nod upon the tower;

Black Tom, beneath the spreading tree That shades the pleasant farm-house yard, Looks out across the shimmering lea, And blows the bugle long and hard.

Blow, bugler! let the echoes float The fields and woodland slopes along, Till every wild but mellow note Burst on the distant hills in song.

Sound thro' the valleys, cool and green, Where tinkling brooklets purl and creep; Sound where the nodding flowers are seen, And wake the poppy from its sleep!

Where cattle drink by shady streams, Where wave the yellow fields of wheat, Where plowboys drive their sweating teams, Send out thy notes prolonged and sweet;

The lab'r casts aside his hoe, The horse, delighted, 'grins to neigh; What says the bugle, well they know, Although it speaks a mile away:

"Come to the cool and dripping well, And at its mossy curb-stone kneel, And lave the sweaty face a spell, And eat the simple noon-day meal.

There's cider, from the oaken press, Hid in the cellar dark and old; There's many a sweet you cannot guess, There's tempting cream the hue of gold."

Sing, bugle, sing with all thy power!
And let thy last note be the best;
Thou hast announced the golden hour,
The noon-day's hour of drowsy rest.

O, bugle of the good old days, Forever silent in the South, Poor Tom has grown too weak to raise Unto his lips thy yellow mouth.

No darky of the younger brood, Though he should blow his lungs away, Can send afloat, o'er field and wood, The notes that he was wont to play.

The songs the red-lipped maidens sing Along my pulses bound and thrill; They charm, but no such pictures bring As that old bugle on the hill.

I seem again with blushing June To stand amid the fields of corn, Whene'er, thro' languid airs of noon, I hear the distant bugle horn.

And, oh! I sigh for boyhood's time, For our old homestead on the hill, And for the drowsy, droning rhyme Sung by the busy water-mill.

The cherry's blood was richer then, The peach was of a deeper hue, And I have wondered if again The skies can ever be so blue.

Ah! could I be again a boy, And could I be where I was born, I'd kiss thy lips with reverent joy, And hug thee, battered bugle horn. -W. T. Dumas, in Southern Cultivator.

Brushes and Brush Making in Chicago.

There are, great and small, some twenty-five brush making establishments with directly and indirectly some thousand persons employed, in this vicinity, to say nothing of the employment which obtaining and preparing the raw material produced in this country gives.

By far the greater part of the raw material is imported, and it is of a character of pure, coarse, cheap raw material, with the exception of bristles and a few kinds of hair, which cannot be produced in this country from purely natural, climatic reasons, and which should for that reason be allowed to come in in the cheapest, freest manner

Bristles from Russia and France are by far the most expensive article of the brush manufacture, and while these have no equal and no substitute in this country, the duty should be entirely removed from bristles, and while \$1,000,000 worth are now annually imported the amount would doubtless be increased and stop the importation of fine for eign-made brushes and give more employment to our people.

At this time the cost of fine bristles is so great that very few fine brushes are made in America, the low duty upon foreign enabling them brushes cheaper than we can make them. As the government does not need the revenue and American workmen do need the labor this should be remedied.

The foreign bristle in no way comes in competition with the home product. The last remains of the wild breeds of hogs have departed from this country, and as high breeding reduces the length of the bristle there is nothing in this country worth over 35 to 50 cents per pound, while foreign bristles run up to \$4 per pound, because of length and stiffness or other peculiar character.

Brush making is very largely made up of

fered heavily from the competition of convict labor, whose product must be sold, and hence is placed in the hands of dealers often at very unremunerative prices, thus destroying a legitimate industry. This question is, however, being agitated, and will, no doubt, be remedied at an early day. Prison labor made goods should be exported.

SOURCES OF THE RAW MATERIAL.

Some American bristles are used for ordinary brushes with short bristles. These bristles are obtained by those employed for that purpose at the slaughter and packing houses, who scrape off the handful of bristles from the mane of the hog as it comes out of the scalding vats. Hog's hair has only the value of being used for other industries, in stuffing chiefly.

Another American article is the hair taken out of the ears of the ox used to make artists' brushes, round and flat, and fresco brushes. Bear's hair is also used for mottlers, as is the hair of the American skunk's

Very little else of American production is used in brush making. Some rice root is prepared in this country and more might be, but the greater part is imported from the cheap labor countries for brushes for scrubbing and scouring purposes.

Cocoa fiber from the cocoanut, rattan, palmetto and cane for coarse work are mostly imported.

Horse hair, manes and tails are both imported and domestic.

The finest article and the one standard in all good work is the Russian, French and Chinese bristle. From these articles of great stiffness, great length and white or black, the brush maker furnishes the finest brushes.

Another article from which camel's hair brushes are made is the Siberian squirrel's tails, a much finer article than can be elsewhere found.

Fitch hair, Russian and German, is another important article with no substitute in this country, although one firm in this city use 50,000 skunk tails a year.

Tampico, kittool and heather for coarse work are also imported, prepared and unprepared.

KINDS OF BRUSHES MADE.

In the cheap bone, tooth and nail brushes and in fine ivery there is very little done by any makers in America. These are imported at lower prices than they can be made for at home under existing low duties on manufactured articles and with a duty upon the raw materials.

In celuloid and similar goods the American product is very large and growing, but while this competes with ivory it cannot compete with the cheap English and German bone.

In solid back hair brushes of ebony, tulip, mahogany and rosewood, we saw at Gerts, Lombard & Co's factory, some very fine articles, equaling anything imported. They also make some of ivory solid back worth as high as \$40 to \$50 per dozen. But in all this the fine material is expensive, the skilled manual labor is high and there is little of profit.

Whitewash and calcimine brushes all bristle and mixed material from 6 to 10 inches wide, and worth from \$5 to \$150 per dozen. Wall paint and other paint, some of very long stock, and worth as high as \$60 per dozen wholesale. Flat and oval sash, oval and flat varnish, spoke, stencil, bill posters, glue brushes, flat and wall stippling brushes, and paper hangers, with bristles up to 10 and 12 inches long.

A very fine line of goods is in artists' stock, round and flat fresco brushes, artist's flat and round, grainers, blenders, overgrainers, varnish brushes, mottlers, lackering brushes, hair pencils, camel hair dusters, camel hair artists' brushes, swan quill pencils, ox hair lettering pencils, sable lettering, red sable, etc.

The line of coarse goods representing shoe brushes, scrub, chimney, bottle, counter, carpet, floor, crumb, window, furniture, lye, horse brushes, cane brooms, molders, etc.

HOW BRUSHES ARE MADE.

The cutting and shaping of the wood backs, handles, etc., of the kind of material in the hands of the wood working machinery is simple and rapid. The holes are bored and the glueing is done by hand.

The assorting, selecting and preparing of the bristles and hair, cleaning and straightening them, the apportioning of each amount

manual labor, hence the industry has suf- for each purpose is all done by hand, as is 390 Sample Cards for 2c. HILL CARD Co., Codis, Online the pulling of the hair and bristles into the cavities in wood or other material.

> In making a solid back brush the holes for the number of rows are bored lengthwise, then the holes for the bristles, a fine copper wire is run in and caught up by a hook, a loop tied around the center of the portion of the bristle, drawn in and again caught up and a portion drawn down to place.

> Trimming, glueing, smoothing, polishing, inspecting, packing, and they are ready for market, each of kind, character, quality, etc.—Journal of Commerce.

Interesting Scraps.

When a man is too busy to laugh he needs vacation

Noble in appearance, but this is mere out side; many noble born are base.

You may take the greatest trouble, and by turning it around find joys on the other side.

Life often seems like a long shipwreck, of which the debris are friendship, glory and love; the shores of existence are strewn with them.

Urai means "girdle mountains," and is Turkish.

Madrid means a little forest, being the same as materita, the diminutive of materia, which is Spanish for lumber.

Lebanon means the white mountain, the name being suggested by the prevalence of snow, as is the case with the New Hampshire range.

Ethiopia is Greek, the first part of the word meaning to burn and the latter the face. Ethiopia, therefore, is the land where men have burned or dark faces.

It was the Romans who applied the name Africa-which means the land of the Afri about Carthage—to the entire continent which had previously been called Lybia, with the exception of Egypt.

Tasmania, the official name adopted in 1855 for Van Dieman's Land, is named after Tasman, the Dutch navigator, who discovered the island on November 25, 1642, and named it after Van Dieman, his immediate chief, by whose order he undertook the voyage.

The name "blue laws" was originally applied to the code drawn up in 1650 for Connecticut. It was given them in derision of their strictness. The word was also applied, as it often is now, to Presbyterians, perhaps because of the blue mantle spread over the preaching tub some of the ministers

Physicians who know the value of Shallenberger's Pills prescribe them as their own remedy. This is hardly fair, but is strong testimony in favor of the medicine. In one year a wholesale druggist in Baltimore sent to the proprietors of the medicine three gross of empty bottles. The pills had all been used by one physician in that city. Nearly as many more by a doctor in Richmond, Va.

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ONE DOLLAR A YEAR.

An extra copy free one year for a Club of eight, at \$1.00 each. KANSAS FARMER CO., Topeka, Kansas. Address

The President has concluded to accept the second invitation of St. Louis, and will visit that city in October. It is expected that he will extend his journey

The management of the Indiana State Fair is putting forth effective efforts to make a grand showing this year. It will be held at Indianapolis, commencing September 19.

Invitations are pouring in, asking the President to extend his Western trip. Topeka is among the number of aspiring cities which would be pleased to receive and entertain the Chief Magistrate.

We are in receipt of a little box containing some choice specimens of Wild Goose plums. The box was marked "From Mt. Arbor Nursery, Shenandoah, Iowa." The sender has our thanks.

Farmers in some localities have cut up their corn in order to save what was left, the heat and dryness having stopped growth, as they believed. This is not at all general, however, not even in the localities reported. The damaging effects of the weather being confined to small areas.

The Live Stock Sanitary Board have been requested to appoint cattle inspectors at several points on the southern line of the State, but there is no fund provided for the payment of such officers this year. One inspector was appointed for Coffeyville, but he will be paid by the cattlemen them- have secured the use of an adjoining selves.

In a delegate convention of eighty colored men at Hutchinson last week, the report of a committee on industry showed that there were 167,000 acres of land owned by colored persons in southwest Kansas, valued with the city property at \$2,190,000. The committee on the political situation recommends a thorough organization of the colored

A correspondent in one of our exchanges says: I saw a few days ago, on the farm of Richard French, in Pottawatomie county, a strip of timothy that was looking fine, and was growing on prairie sod, seemingly holding its own even there. On a farm belonging to John Straub, in the same county, are several large pieces of blue grass that are there to stay. Mr. Straub says he has no account of how it ever came there. It is growing on raw prairie.

The Missouri Pacific railroad com- sey Cattle premium. pany carried some nine hundred Texas cattle into Washington county, this State, in April last, and a large number of native cattle have been lost by reason of fever taken from the Southern cattle. The company took a bond of \$5,000 from the owner of the cattle before shipping them, as security that they were not diseased. But the sequel shows that they were diseased, and the company will be held responsible in offers a medal of pure coin silver to the to endanger the animals of other States. court for all the damages done.

THE STATE FAIR.

It is very important that the Kansas State Fair this year be a grand success. Since our last State Fair a quarter million new people have came among us and fifteen new counties have been settled and organized. These new Kansans need an opportunity to show to the world what the Great American Desert will do when operated by genuine Yankees. Western Kansas to-day is no more like it was two years ago than eastern Kansas is like it was twentyfive years ago. A million acres of land raw then are now covered with corn waving like shadows in the sunshine. Every live man in other parts of the State wants to see samples of crops raised out there, and friends of the new settlers want a report which the eye can see and the fingers touch. And the world of civilized men is interested in Kansas crops. In 1860 we had a dry year out here, and we had grasshoppers, and we had-nothing else worth crowing over. People far away sent us old clothes and beans, and they said hard things about Kansas. Stories travel fast and they descend by tradition to coming generations. It has been called drouthy Kansas" and "grasshopper Kansas" ever since, notwithstanding we have been able any year in the last twenty to feed five times as many people as we have within our own boundaries. And they still talk about us and say we can't raise anything, notwithstanding the fact that in Topeka we have eleven flouring mills grinding Kansas wheat, and there are other mills in almost every township in the State.

But the country has been dry the past two years, and Kansas must show that her farmers raise wheat and corn and cattle and fruit, and all other kinds of farm produce in dry years as well as in wet years. Every county in the State ought to be represented at the State Fair by at least a few samples of products. All the farmers cannot come up; but they can get together and select one of their number to take up a few specimens of what is grown in that region. The managers are making extensive preparations. They are putting up new and commodious buildings, and grove of some eighteen or twenty acres for the enjoyment of visitors. Two lines of street car track are now being laid to the grounds and the Santa Fe has a track into the grounds direct, so that there will be abundant facilities for getting there. Mr. Thomas, the Secretary, says he expects the best fair ever held in the West. He has correspondence from all parts of the State and from adjoining States. He says the exhibits in agriculture will be of an extraordinary character, while the stock departments will be filled as they never were before. Applications for space are coming in every day. The Kansas Wool-Growers and Sheep-Breeders' Association and Kansas State Poultry and Pet Stock Association will hold exhibitions in connection with the fair.

The American Jersey Cattle Club offers \$100 for the best herd of registered Jersey cattle, owned in Kansas, to consist of one bull and four females, the prize to be known as the American Jer-

The American Percheron Horse Breeders' Association offers a grand gold medal, valued at \$100, to be awarded by the association to the best pure blood Percheron stallion bred in the State of Kansas. The medal to be made with suitable inscription and to be held by the Kansas State Fair Association subject to said award.

The American Clydesdale Association

Clydesdale mare bred in Kansas and exhibited at the Kansas State Fair of 1887.

The premium list shows that about \$20,000 is offered in premiums.

The various railroads of the State will sell tickets at one fare for the round trip from all points along their lines to the State Fair. All stock and articles for exhibition will be carried to the State Fair on full payment of freight, and will be returned free to place of shipment on presentation of certificate to the Secretary of the State Fair, provided there has been no change of ownership and return be made within ten days.

The management is working industriously and resolutely to make the fair a success and we believe it will pay Kansas a hundred times over to show herself there, September 19 to 24.

ONE DOLLAR EVEN.

Among the first fruits of the new management of this paper may be mentioned a 331 per cent. reduction in the price of yearly subscriptions. The KANSAS FARMER has been going at \$1.50 for lo, these many years. This week we mark it down to one dollar even, and it will stay there. It is intended to build up an immense circulation, and this is the first step, to be followed by others which will be announced from time to time as they are taken. We will be in condition pretty soon to advertise the paper, wherever it goes, as having improved at least 100 per cent., and when we get to that point we will expect our friends to help extend our circulation. In the meantime, this is notice.

Farmers need reliable journals published in their interest, conducted by men whose training and sympathies fit them for the work. Every man now connected with the paper is or was at one time engaged in practical farming, and they propose to put this paper among the foremost agricultural journals in the country, and at the very head of those published in the West. We wish at this time to put our friends in possession of these encouraging facts, so that wherever they can drop a little good seed in good ground they will do so. One dollar even.

Pleuro-Pneumonia.

A Washington dispatch under date July 29 says the Chief of the Bureau of Animal Industry has just made a preliminary report to the Commissioner of Agriculture in reference to the progress of the work for the suppression of pleuro-pneumonia for the six months ending June 30, 1887. He states that the act of Congress approved March 3, 1887, appropriating \$500,000 and giving authority to compensate for diseased and exposed animals, and also to quarantine and disinfect premises, has enabled the Bureau to accomplish very much more than had been possible previous to that time. The new rules and regulations made to conform with this act issued April 15 for co-operation with the various States, though assuming much more authority than the old ones, have been very favorably received and accepted by nearly all the States and Territories, Missouri being one of the few which have not accepted. Pennsylvania is the only State believed to be infected with pleuro-pneumonia, the authorities of which have declined both to accept the new rules and regulations and to give the national inspectors any recognition in their work. An investigation is recommended to determine the extent of the infection of Pennsylvania, and if this should prove sufficient owner of the best recorded Clydesdale the cattle of Pennsylvania should be guilty.

stallion; also for the best recorded placed in quarantine and prohibited from going into other States unless accompanied by a permit from an inspector of the Bureau of Animal Industries. The report gives complete statistics of herds examined and cattle slaughtered.

The Corn Orop in Kansas.

Estimates made a month ago as to the corn crop in this State will have to be revised. The acreage was largely increased, at least 25 per cent. over last year, and most of the increase is in the newer counties west. But there have been unfavorable influences in localities, and they have operated to lessen the average yield materially. It is too soon yet to estimate accurately. Our reports, September 1, will afford reliable data. The crop will then be made, and we can know just what it is.

Reports are varying and cannot be safely accepted as accurate now, because farmers are very busy, not getting about much over large territory, and weather has not been regular, so that within short distances different conditions exist. In one neighborhood, or in one township, everything may look well, while in the next it may be different. A report from either locality would not give a fair statement as to the whole region. We must wait a few weeks for complete returns.

It is interesting, however, in the meantime, to learn that the present prospect is regarded as good for a fair average yield of corn per acre, and that with the increased acreage, the aggregate yield will be much above that of any former year. The Kansas Farmers' Insurance Company publish reports from forty-one counties, many of them showing that corn is matured. The reports are in response to special inquiries. Most of those received up to date of publication are from the eastern counties, and they indicate that the yield will exceed the average. Our own advices are to the effect that in some places the yield will be enormous, in others fair, and in a few particular localities of small area, the crop will be very light. On the whole, we expect an average corn harvest.

Col. St. Clair, of Sumner county, refers to the "spotted" condition of corn in that county-some fields a "bright black green," he says, and others "burning up." He advances a theory as to the cause. He says the Arkansas valley is underlaid with water at a certain depth, but that in some places there are deposits of a hard clay-almost rock, so hard that drive wells will not penetrate it, and he believes that the poor corn is where that hard stratum lies between the water and the surface, preventing the rise of moisture. In ordinary years rain water is sufficient for all purposes. Sumner county does not often fail in any crop. But dry weather has been so long continued that the subsoil has little moisture in it, and the intervention of the hard stratum referred to prevents assistance from the water below.

Dr. Oyster, of Miami county, writing from Larned, Pawnee county, says: "I left Paola July 25, for this part of the State, for the purpose of collecting botanical specimens, and I have noticed the crops all along. The corn seemed to look better in Miami and the eastern part of Franklin counties than in any part of the country I travelled over. There is a good deal of late corn which is green, and if we have rains it will greatly help it. We had a rain at this place last night."

The boss boodler among the Chicago gang, McGarrigle, has found his way to Canada, and some of the others plead

The Brave of Earth.

Heroism is a crowning virtue. We hear of men renowned in war, men who directed armies while their soldiers did the fighting; we read of men who directed fleets in naval engagements; dry. we are told of men who faced angry mobs and turned them aside. Names of such are they which embellish written history. They are carried forward to coming generations on wings of fame.

But there is an unwritten history. There are men who imperil their own lives to save those of strangers, and this almost at every turn of life. There are women who know not danger until it is past. These men and women who dare to do in times of peril are the world's heroes, though no record of their deeds be published for others to read. There is a time coming when they will stand first among the brave of earth. It must is rendered in their favor.

A few days ago fire was discovered in a tenement house in Chicago. Among incidents of the sequel, this is reported: The story of the attempted rescue of Mrs. Trugo and her babe, as described, is one of peculiar horror and pathos. The police and firemen had rescued her husband and four children, but she was neglected. Left with her two-year-old baby, the poor woman rushed to the window. A fireman saw her and he returned through the smoke to her chamber. All escape from the rear with such a burden as the woman and her child was impossible. He thought of a bed-cord, and tearing it out, bound the woman and child with it and pushed them through the window. He played out the rope until he was ready to fall to the floor from the heat, when he fled, after tying the rope to the bedpost. He was far from accomplishing his purpose, as his rope was too short and the woman and child instead of dropping to the ground or within reach of those below, he had suspended them in front of the first floor window, from which the fire poured as from a furnace door. She swung ten or twelve feet from the ground, shricking and struggling as the fire swept off her garments, choked and actually broiled her alive. The singular fact is that the flames left the rope intact. It became a necessity if not to save the woman to cut her down. This duty was assumed by Captain Wm. H. Cowan, of truck No. 8, who chose to chance the fate which awaited his efforts. Seizing an ax and ladder he threw it up to the window and stood on its blazing rung. He deliberately entered the flames, and as they encircled him he struck at the rope. He could not see and struck with inaccurate aim. Once, twice, as his clothes fell from him, he struck in vain. At the third stroke the blade cut the rope. Simultaneously the burning ladder broke and the three blazing humans fell to the ground. The baby was dead, the mother dving a few minutes later, and the Captain is thought to be in his death agonies.

About the Weather.

It is a common subject-very common, but very interesting, at times, trating the resources of Kansas City and this is one of the times. Heat has been excessive most of the time the last month in the middle half of the country. In Chicago more than a hundred cases of sunstroke occurred in a single day. At Kansas City the mercury has been above 100 degrees in the shade

"clearing" when brush and chunks are being burned in the hottest days of the year. Heat has been so intense that the air seems to be wholly devoid of moisture, it is warm, very warm and

Looking for reasons why conditions are that way, it is brought to mind that there has been a long period-nearly two years-of generally dry weather. A good deal of rain fell, but not all over the land—only in spots. In all the West persons. and Southwest, last summer, fall, winter and spring were, on the whole, dry. The earth has become dry down in the subsoil. There have been no moist exhalations in a long time. And it has continued up to this time. A good deal of rain has fallen this summer, but it has been spotted, and in April weather was very dry. Oats in many places in all the Western States did not grow be so because in every heart judgment more than a foot high, and in many other places it was not worth cutting. Still, a great deal of oats was cut, and some of it was good. So it was with wheat. At seed time, the ground was not moist deep, the winter was dry, spring was dry, and many wheat fields were plowed up and seeded with corn. Still a great deal of wheat was cut. In Montgomery and some others of our southern counties in Kansas, wheat never was better, yet even there, it was spotted.

But the heat and its effects have been peculiar. Reports from Illinois, Wisconsin, Iowa, Nebraska, are alike. An Iowa man was in this office a few days ago and spoke of the heat and dryness in many parts of that State. A dispatch from Nebraska City, Neb., dated July 29, stated: "At 2 p. m. to-day the thermometer registered 110 degrees, with scorching hot winds from the South. A number of persons were overcome by the heat, but not fatally. Reports from Otto county, in southern Nebraska, say nearly all the creeks, wells and cisterns are dried up, and that stock is suffering for water. In some localities the corn is dried up and ruined. The people here are praying for rain." The same day news came in from various parts of Kansas telling of "glorious rains" in some places and cutting up corn in others. One neighborhood is in good condition while another is scorched. Taking the country over it is unusually warm, and the heat is telling sorely on the crops.

Invitation to the President.

When big folks are invited to "come and see us," the invitation costs money and time, and patience. A delegation of Kansas City people waited on President Cleveland, a few days ago, to invite him to visit their city when he comes West in the fall. Here is a brief description of the book containing the invitation. It is a large volume, handsomely bound in sealskin, and bearing on a white panel inserted in the cover:

KANSAS CITY PRESIDENT AND MRS. CLEVELAND, GREETING. 1887.

The first six leaves contain six allegorical figures, in water colors, illusand the States of Kansas, Missouri, Texas, Colorado, and Indian Territory. Kansas City is represented by a winged female figure sitting on a hemisphere on which are the outlines of the States named, of which Kansas City is the gateway. The second sketch, Kansas, is several times-103 last Friday, and in a figure bearing a sheaf of wheat and Topeka and Omaha it has been as high. carrying in her hand a sunflower. Mis-The heat extended north and south souri is represented by a maiden seated wholly across the country. Usually the on some sheaves of garnered wheat. At most trying weather is in August when the feet of the figure is a cornucopia the earth, responsive to the air, is dry from which vegetables and cereals have and warm. Then the moving air re- fallen. Some chimneys in the distance minds one of the temperature in a recall Missouri's manufacturing re-done.

sources. Vulcan fittingly illustrates the mineral resources of Colorado. The last conception of the artist is his happiest. It is an Indian maiden just awakened from sleep. Out of the mists surrounding her comes the Spirit of Progress bearing a wreath and whispering to her a promise of what the future has in store when she (the Indian Territory) shall be a State. Then follow the signatures of about twenty thousand

Notice to Railroad Companies.

The Live Stock Sanitary Commission held a meeting a few days ago to consider the matter of railway companies carrying Southern cattle in Kansas, and after conferring with the Board of Railroad Commissioners, prepared a letter to be forwarded to the different companies in the State. The letter is as follows:

WHEREAS, The Union Pacific railroad company did on or about the 2d day of April, 1887, deliver at Greenleaf, Washington county, Kansas, some 900 head of cattle coming from south of the thirty-seventh parallel of north latitude; and WHEREAS, The cattle have communicated the Texas splenic or Spanish fever to a large number of the native cattle thereby entailing heavy losses on the citizens of the State, and WHEREAS, The bringing into this State of the said cattle was a violation of chapter 191, section laws of 1885, section 1 of which provides that any person violating any provisions of this act shall upon conviction thereot be adjudged guilty of a misdemeanor, and shall for each offense be fined not less than \$100 and not more than \$2,000, or be imprisoned in county jail not less than thirty days, nor more than one year, or by both such fine and imprisonment.

or be imprisoned in county jail not less than thirty days, nor more than one year, or by both such fine and imprisonment.

Now, Therefore your attention is hereby respectfully called to all of the provisions of this law (a copy of which is herewith enclosed) and you are requested to issue to your agents and employes such instructions as will prevent the introduction to the State over the lines of your road all cattle which are prohibited by the said law from entering the State.

Kansas Continues to Grow.

The State Board of Equalization fixed the rates of levy for State purposes last week, when the county valuations were equalized. The new assessment includes all personal and railroad property, an assessment of real estate being made only once in two years. The total valuation of property in the State, as equalized by the board, is \$310,596,686.64, which is an increase of \$33,483,363.30 over last year. The following figures show the valuation of property for the past three years:

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The total tax levy of this year for State purposes amounts to \$1,273,446.31. The rate of taxation this year is 4 1-10 mills, which is the same as last year. For the past two years the tax levy has been less than for many years.

The valuation of the wealthiest ten ounties is as follows

Countries is as Lone wis.	
Sedgwick	\$12,282,152,.85
Shawnee	11,926,647.25
Leavenworth	
Sumner	7,822,695.56
Lyon	7,513,903.80
Wyandotte	6,906,317,95
Cowley	6,045,064.78
Bourbon	5,638,591.75
Lyon. Wyandotte. Cowley. Bourbon. Reno.	5,413,886.84
Douglas	5,056,415,31

The following is the total valuation of all property in the leading cities:

	CA COLORS	
Wichita	 88,	449,093.89
Topeka		270,016.91
Leavenworth	 5,	254,286.03
Atchison		024,722.77
Emporia		442,173.25
Lawrence	 1,	878,314.26
Fort Scott		779,904.41
Hutchinson		715,080.99
Ottawa		160,235.15
Newton		022,586.65
Wellington		056,204.39
Salina		995,732,47
Winfield		992,568,31
Parsons	 	934,258.50
Arkansas City		887,677.21
Garden City	 	841,123.60
McPherson	 	715,193.74
Abilene		711,149.30
Clay Center	 	707,315.22
Junction City	 	656,459.96
Dodge City	 	635,819.40
	-	

Reading, Pa., on the night of July 26, was visited by the most destructive storm ever known there. A great deal of damage was

Kansas Fairs.

Kansas Fairs.

Anderson county — Garnett, August 30 to September 2.

Bourbon—Fort Scott, October 4-7.

Brown—Hiawatha, October 4-7.

Cheyenne—Wano, September 14-16.

Cloud—Concordia, August 31 to September 8.

Coffey—Burlington, September 12-16.

Cowley—Winfield, September 12-16.

Cowley—Winfield, September 20-22.

Edwards—Kinsley, September 20-22.

Edwards—Kinsley, September 27-30.

Elk—Howard, September 22-24.

Ellis—Hays City, September 20-23.

Franklin—Ottawa, September 20-23.

Franklin—Ottawa, September 20-23.

Franklin—Ottawa, September 20-23.

Jefferson—Oskaloosa, September 13-16.

Jefferson—Nortonville, September 13-16.

Jefferson—Nortonville, September 23-30.

Jewell—Mankato, September 21-24.

Linn—LaCygne, September 21-24.

Linn—Pleasanton, September 13-16.

Linn—Mound City, September 14-16.

Mitchell—Cawker City, September 6-9.

Montgomery—Independence, September 6-10.

Morris—Council Grove, September 13-16.

Nemaha—Seneca, September 20-23.

Nemaha—Seneca, September 20-23.

Nemaha—Seneca, September 27-30.

Osborne—Osborne, September 27-30.

Osborne—Osborne, September 13-16.

Phillips—Phillipsburg, September 13-16.

Phillips—Phillipsburg, September 13-16.

Phillips—Phillipsburg, September 13-16.

Phillips—Phillipsburg, September 13-16.

Rooks—Plainville, September 13-16.

Rooks—Plainville, September 13-16.

Saline—Salina, September 13-16.

Sumner—Wellington, August 30 to Sept. 2.

Washington—Washington, September 12-16.

Sumner—Wellington, August 30 to Sept. 2.

Washington—Washington, September 12-16.

Sumner—Wellington, August 30 to Sept. 2.

Washington—Greenleaf, September 12-16.

Sumner—Wellington, August 30 to Sept. 2.

Washington—Greenleaf, September 12-16.

Sumner—Wellington, August 30 to Sept. 2.

Washington—Greenleaf, September 12-16.

Sumner—Wellington, August 30 to Sept. 2.

Kansas State Fair—Topeka, September 19-24. Western National Fair—Lawrence, September 5-10. Nebraska State Fair—Lincoln, September

Kansas City Fat Stock Show—October 27 to Raisas Uriz Fat Swood Salva Rovember 3.

Missouri State Fair—Sedalia, August 15-20.
St. Louis Fair—St. Louis, October 3-8.
St. Joseph Inter-State Fair—St. Joseph, September 12-17.

St. Louis Wool Market.

Reported by Hagey & Wilhelm.

Our wool market continues active and firm with heavy demand from Western manufacturers and all receipts meet quick sale on arrival for spot cash. The Liverpool, England, auction sales now in progress show prices lower than their May series and bidding lacks animation. Stocks for the London sales opening in September are already much heavier than anticipated and are daily increasing.

Other foreign markets show heavy stocks offering and buyers backward, hoping for still further declines. Eastern markets continue quiet and depressed under the stringency of their money markets and are not equal to ours in prices.

Receipts here for week, 583,208 pounds. Receipts since January 1, 11,871,692 pounds. Shipments this week, 802,569 pounds.

SALES.

Dark, heavy, earthy, mixed grades, unclassified, 12 to 19 cents per pound all around. Bright wools of light shrinkage, classified, are in urgent manufacturing and speculative demand at the following prices:

KANSAS AND NEBRASKA.	
Choice 1/4 and 1/4-blood	25
Medium21a2	žŠ
Fine medium	22
Low medium19a5	टा
Light fine	22
Heavy fine	20
Bucks and heavy Merino12a	16
Carpet	16
Common	18
Pulled	16
Sheep pelts, fallen stock10a	14
Burry wools, 2 to 5 cents per pound less.	

Mr. Swann on Wheat-Growing.

We have another letter from Mr. Swann, in which he extends the line of thought presented in his letter published last week. The part of his letter which extract:

"But, on the other hand, if farmers will only clear their wheat land of all refuse by mowing and raking, and harrow and drill without stirring up, then but little moisture will be required to grow the wheat plants; and if dry, as many are claiming, the wheat will be made by the time other crops begin to suffer. Therefore, if a dry season is to be our let, we would have some wheat against nothing."

Borticulture.

AMERICAN FORESTRY.

Paper read at the meeting of the American Nurserymen's Association, Chicago, June 15-17, 1887, by Robert Douglas, Waukegan, Ill.

American forestry is yet in its infancy and has no written history; therefore I am requested to give my own experience and observations. The subject of forestry never entered my thoughts until the summer of 1850, while reading Andrew Jackson Downing's work on Landscape Gardening and Ornamental Trees, a work just published at that time. Referring to the European larch, he mentioned the Duke of Athol's plantations in Scotland, and concluded by saying: "Although nothing has been done in this country in the way of planting trees for timber, yet the time will surely come when they must be planted."

It is not probable that I would have given this quotation more than a passing thought, had it not been that I had made a long journey westward the year previous, and after passing through a forest belt about three miles in width on the western shore of Lake Michigan, all the timber I traveled through in the next two thousand miles, if placed together, would fall far short of making another three mile belt. Consequently, I came to the conclusion that the time had already come when they should be planted. I read every work I could procure published in English, touching on European forestry; elaborate accounts of the Duke of Athol's larch plantations, the planting of the Culbin lands in Scotland; Bremontier's planting on the coasts of France, etc. I imported seeds of Pinus Maritima with which to imitate Bremontier, larch and Scotch pine seeds in imitation of the Duke of Athol, John Grigor, and others. I tested the European methods of moor planting, and planting on unplowed lands, on a very extensive scale, after having purchased a large plat of barren land on which to carry out these experiments, and, judging from their accounts I succeeded as well as they did.

GROWING SEEDLINGS IN FORESTS. I also experimented on a very large scale, in imitation of their methods of growing coniferous seedlings in open glades in the forest, and in this I succeeded perfectly, if it can be called a success where nothing is gained. We can grow better coniferous seedlings in two years in the nursery, than can be grown in three years in openings in the forest. In Europe, where manual labor is cheaper than horse labor, and where time is apparently of no consequence when applied to the growing of forests, probably the growing of seedlings in the forest is the cheaper way. Their methods of planting trees in unprepared lands is well worthy of imitation in many parts of this country, especially in New England, and wherever there are broken and waste lands, which can not be brought under the plow; but on our Western prairies it is entirely out of ful of earth, the boy inserts the tree, the question. Trees can not be made to the earth is replaced, the planter places grow planted in prairie sod, and when the sod is subdued, prairie weeds will | bearing on his full weight—and passes grow many feet higher than the trees, if on to the next mark. This tightening tions. He reached there early in March. the land is not cultivated; and if they of the tree is the most essential part of About the time the carload of trees live through the first season, the second the work. The boy is kept quite busy arrived, Mr. Campbell had been unexand third seasons will assuredly destroy

During all these years, occupied in making the experiments alluded to, I kept on reading everything I could procure touching upon European forestry, and found that there foresters differed in opinion very much as we do here. The more I experimented, the more I became convinced that a system of

of this country; that the European out, and the earth firmly packed over modes of planting trees on unprepared lands for the benefit of the next generation, and the next, while very good in isolated cases, is altogether too slow for this country, in a general way. Therefore I determined on purchasing a tract of land on a Western prairre, and planting a forest, to see how cheaply and expeditiously it could be planted and

I incidentally mentioned my plans to a gentleman who took a deep interest in forestry. He said that if I had faith in forestry as an investment, he presumed I would be willing to take a section of prairie and plant a forest, taking all the responsibility, and take pay for it when I delivered it to the contracting party in a condition to take care of itself without further care or cultivation, and if so, to draw up a contract. I did so, stipulating that we should be paid the actual cost of preparing the prairie after it had been broken, and less than the amount at which we were selling the trees in the nursery, to be paid after the trees had been planted, all else to run until the time we delivered the plantations on the contract, after the trees had reached a height of five to six feet, and were shading the ground so as to need no further cultivation.

METHODS ADOPTED.

After experimenting in different ways, we have adopted the following mode:

Break the prairie in June, or at the time the grass is in the most thrifty state of growth. Break quite shallow not deeper than two, or at most, three inches, as the greater the amount of succulent growth and the shallower the breaking, the more surely will the sod be killed in the summer. Late in August, and during September of the same year, we turn the sod over lengthwise of the furrow, and deep enough to bury the sod and leave two or three inches of earth over the entire surface. If it is not designed to plant in the autumn, we leave the ground in this condition until the following spring, when the harrow and roller will put the land in excellent condition for planting. If for fall planting, we have the small tree-digger run under the seedlings gauged so as to cut the roots to the proper length for planting, and while the teams are turning the sod and preparing the land for planting, the workmen are pulling the trees, and assorting and tying them in bundles ready for the planters.

Before the planting is commenced, the harrow and roller are run over the land, and after that the marker, marking off the ground four feet each way, the same as for corn. The workmen are then divided off into companies of three each, or two men and one boy, the two men with spades, the boy with a bundle of trees. The two men with spades plant on adjoining rows, the treeholder standing between them. The planter strikes his spade vertically into the ground on the running line, close up to the cross mark, then raises a spadehis foot close up to the stem of the tree attending two planters. After a little experience the boy will learn to bring each tree out of his bundle, with a circular upward motion, that will spread out the roots when placed in the ground about as eyenly as they could be placed with the hand. The three persons will plant at least 4,500 trees in a ter-hour

When we consider that by this method became convinced that a system of When we consider that by this method Mr. Campbell and ourselves. I give Regular subscription price of the Kansas forestry must be adopted better adapted the trees are planted in a straight line, these facts to show that we have the Farmer is now \$1 a year, within reach of all.

them, we think it much better than any other method. Dr. Warder named this the "Douglas three-motion system," as three motions of the spade are required in planting each tree.

When a great number of men are employed, time is saved by having a man follow in the rear, handing the bundle of trees to the tree-holder. We found that one man could attend thirty to sixty workmen. He would follow with a wagon load of trees close in the rear, and whenever he saw a boy on his last dozen he would throw him a bundle, the boy would put it under his arm, and use it after he had disposed of the few in his hand. We use a two-horse walking cultivator among the trees during the summer, and the cultivation is just as simple as for corn. Working up the earth to and from the trees alternately, we use no hoes, as careless workmen will injure a great many trees with this instrument, while horses will rarely injure a tree, and they can be worked so close to the trees that a weed rarely needs to be pulled by hand.

These trees made a very satisfactory growth, and far exceeded our expectations. We had contracted to deliver 2,000 trees of the required height on each acre: we actually delivered over 2,500. One of our main objects in planting these forests was to let people see that forest-planting is a very simple affair, and could be accomplished by the most ordinary workmen. And in this we certainly succeeded, for, so far as I am aware, we did not have a man employed who had ever spent a day in planting trees, except a few men who had planted for the railroad company, and we had more trouble with them than with the rest. They had planted 300 trees per day per man, while we planted 1,500 trees for every man and boy employed planting. Each three planted their 4,500 trees with ease, and I did not notice that one planted any better than another, as each man and boy held his place in the row. If a new man came, whether from the farm, the coal pits, or the corner grocery, he would keep his place in the row, and plant just as well as the rest. During the time we were planting these forests we had a very long drouth one summer, proving serious to the farm crops, yet our trees were not seriously checked in growth. Another year a hail storm ruined a large corn field adjoining the plantation, cut the leaves from off our trees, bruising the bark on the trunks so the marks showed for over a year, yet it did no permanent injury.

In further proof of my assertion, that forest-planting is a simple affair, I will say that in the spring of 1885 Mr. W. E. Campbell, of New Kiowa, Barber county, Kas., wrote us to send trees to plant about eighty acres of land, and men to plant them. I wrote him that if men could be had in that locality it would save him the cost of transportation, and we would send a man to superintend the work. Mr. Campbell's land adjoins the Indian Territory, about the 99th meridian. I sent out a man who pectedly called away; the cabin was not built, he had to sleep on the prairie, and for workmen he had to employ Oklahoma boomers who were then besieging the Indian Territory. They considered themselves an army of martyrs, and from our foreman's account they were not a community of saints; yet they did the work to the complete satisfaction of Mr. Campbell and ourselves. I give

to the climate and the immediate wants at the proper depth, the roots spread men around us to do the work, without depending on foreign immigration. So that an American land-owner, even if he should have the audacity to attempt to teach his own and his neighbor's boys, will not stand in fear of the walking delegate."

Mr. Campbell's is a mixed plantation, and he writes us that all kinds are doing well. This gives an opportunity to test several kinds of trees at a point further west than it was feared trees could be made to grow, even a very few years ago.

TREE-PLANTING IN KANSAS.

Kansas is comparatively a new State, and when we take into consideration that the first settlers in our prairie States always settle near the timber, we see by the immense number of trees her citizens have already planted, that in a few years she will surprise some of our writers, who are deploring the apathy of the people. Indeed, I think that many writers who are warning the people of this impending danger of forest denudation, are not aware of what is being done in that direction. I judge this is the case from articles I see greedily copied, of what is being done in Europe, compared with the little that is being done here. Two or three years ago a statement was published, giving the actual number of forest trees that had been planted that year in England, Scotland, Ireland and Wales. I was surprised to see that in the aggregate they did not reach three and onefourth millions, just about the number they would plant on 1,000 acres, and yet what we are doing in this country is looked upon with contempt. Surely these editors and essayists either can not find time, or will not take the trouble to inquire about what is being done in their own country. They can not be aware that the State of Kansas alone, since she commenced this new industry, has planted 147,340 acres. Think of it! Great Britain and Ireland, 1.000 acres in one year. The State of Kansas, a new State, peopled by families another, and certainly not quicker than who went out within the past few years to work a living out of raw prairies, have planted 147,340 acres!

"But," says some of our forestry friends, "What does it amount to?" 'They are planting worthless trees." Let us see about that: 11,500 acres of black walnut, 12,486 acres of maples, 2,637 acres of honey locust, 55,553 acres of cottonwood, 65,771 acres of other varieties. Admitting that the cottonwood does not rank among the most valuable woods, it is a God-send to the new settlers, as it makes fuel in less time than any other tree. (In this tree, we see history repeating itself; in ancient Rome, the genus poplar derived its name from being the people's tree.) Some writers - not planters - recommend mixing the cottonwood with other trees, to be cut out for fuel in the future. But as far as I have seen, the practical farmer knows better. To him it would seem like turning a drove of Texas steers into a herd of Jerseys.

Wonderful as this showing is, Kansas falls far short of Nebraska. If an accurate account could be had of the trees planted in Nebraska, it would beat Kansas two to one. Now include had worked in our Farlington planta- all the Western States and Territories, with the far from inconsiderable qua tities planted in the Eastern States. and how long will it be before there are more forest trees planted in these United States than in the whole of Europe?

(Continued next week.)

Stewart's Healing Cream, for chapped hands, face, or gentlemen to use after shaving. The cheapest and best article for the purpose in the world. Please try it. Only 15 cents a bottle at drug stores.

The Poultry Hard.

Prevention of Chicken Cholera.

H. B. Geer, in the Southern Cultivator, says: "In July, August and September dead grown chickens are met with everywhere, under the roosts, about the fence corners, and in the alleys. At this season of the year that dread scourge of the poultry yard, chicken cholera, stalks abroad and its victims are legion.

"But why come in the autumn rather than at any other season of the year? Because then it is that our birds are all run down after laying and hatching season, their natural vitality is at a minimum, the heat is interse, lice are numerous, water frequently is foul, and they are beginning to moult, which latter ordeal of itself generally finishes the oldest and most feeble. The stench that pervades some chicken-houses of a hot summer night would kill a human being to inhale it one week. Then why subject the fowls to such unhealthy conditions and expect them to remain strong and vigorous? Ventilate that old hen-house. Knock off the planks at the top of the sides; you can nail them on again in the late fall. Lattice it up and leave plenty of ventilation. Let the air pass through it like a seive. All the chickens want in the way of a house at night in the summer time is a shelter from the rain. Clean it out thoroughly and loosen up the earth in the bottom of it. Whitewash it thoroughly inside and out. Wash the roosting perches with copperas water (green vitriol) and throw fresh lime underneath them. Don't stop with the first efforts but make it a rule to renovate once a week, carrying out the droppings, washing the perches and sprinkling the lime

"See to it that the fowls have a good place to wallow. Without their dust bath the poor things will be overrun with lice. The dust to them is what water is to us. It cleanses and invigorates them and improves their plumage. Give them plenty of pure fresh water. This matter must not be neglected at this season of the year. Through their drinking water we may possess the power to stay their arch enemy, cholera. Mix and keep on hand a solution as follows: Dissolve in two gallons of water half a pound of sulphate of iron and one ounce of sulphuric acid; add this to their drinking water of a morning in proportion of a teaspoonful to each pint of water. This may be given three times a week for the next three months with most excellent results. If, however, any of the birds show any indications of dysentery, omit the solution for a time and put a little sulphate of copper (blue stone) in the water-just enough to turn the latter slightly blue. This remedy has never failed to check up and set right our chickens whenever they exhibited any signs of dysentery or cholera. Keep plenty of fresh lime about, and give the fowls access to green food, and then you need have no fears of chicken cholera."

Poultry Notes.

Give your hens a variety of food; a change will be found beneficial.

Do not feed raw corn meal dough to a sick fowl. Let it be steamed or scalded.

Of this there can be no doubt: Fowls do better if not kept in the same yard area perpetually.

It is said that epicures prize the poultry that has had a good feeding of

come change of diet. Let these things have a strip about four or five inches be tried.

It is an evident truth that fowls for market should be in prime condition and neatly dressed.

Raw onions chopped fine and mixed with food twice a week is recommended as better than a dozen cures for chicken cholera.

As sunflower seed is liable to heat, the safest way of keeping it for fowls is to cut off the flower head when the seed is ripe, and pile it loosely till thrown to

When a contagious disease breaks out in a flock of fowls it is better to destroy them all rather than have the disease get "rooted" on the farm, as the germs may remain for years.

For soft-shell eggs, put the hens at work scratching, as it indicates that they are too fat. Soft eggs, apoplexy, egg-bound, and nearly all such diseases, are due to the hens being too fat.

Eggs may be dried and made to retain their goodness for a long time, or the shell may be varnished, which excludes the air, when, if kept at a proper temperature, they may be kept good for

One poultry raiser protects his hens from lice by suspending over each hen a small bag of thin muslin filled with flour of sulphur, so that the hen will knock it in getting on and off the nest, or it may be occasionally shaken over

The symptoms of cholera are given as sudden and violent diarrhea, greenish droppings which become thin and whitish, extreme weakness and a nervous anxious look about the face. Death ensues in about twelve to thirty-six

The next boom in poultry, "they say," is to be in the white breeds. Four new candidates for favor are named: Wyandotte, Plymouth Rock, Langshan and Minorca. There are many other breeds, among which Dorking ranks high as a table fowl.

Practically an egg is animal food, and yet there is none of the disagreeable work of the butcher necessary to obtain it. Be it animal or vegetable, the vegetarians of England use eggs freely, and many of these men are eighty and ninety years old, and have been remarkably free from illness.

To prevent chickens treading upon their food or crowding upon each other when feeding, the food might be put in a small box with barred sides like a plate rack. The bars may be placed so close together that the hen or large chickens cannot get their heads through to rob little chicks of their food. Boxes with the bars wider apart can be used for larger fowl.

The only sure way to clean out a nest should the contents become soiled, is to carry the box outside, burn the hay, and then dip a sponge in kerosene and apply a lighted match to the box, first rubbing it over with the sponge. The oil will burn for a few moments over the box and then cease. If there are any lice they will have but a poor chance. If an egg is broken in the nest the result is usually lice, unless the nest is at once cleaned, and the best mode is to begin anew with the box very clean and fresh-cut hay put in.

Nesting boxes should be made and fastened to the side of the walls of the coops, and should be large enough to admit of two compartments, one for the young of the first nest and the other nest for the hen to lay her second set of eggs. The partition between them roasted corn and celery for a few days should be high enough to prevent the before killing. For laying fowls corn young from getting over into where treated in the way mentioned is a wel- 'the hen is sitting. This partition should

wide nailed over the top of the partition, to answer as an alighting place for them to stand with comfort. It should extend out through the entrance far enough to answer as an alighting step.



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SMITHS, POWELL & LAMB, Syracuse, N. Y.

THE MARKETS.

By Telegraph, August 1, 1887. LIVE STOCK MARKETS.

St. Louis.

CATTLE - Receipts 4,400, shipments 1,200. Market easier. Fair to choice steers 8 95a4 20, butchers steers 3 30a3 90, fair to good feeders 3 00a3 70, fair to good stockers 2 00a2 75, common grass to good corn-fed Texans and Indians

HOGS-Receipts 1,800, shipments 800. Market strong. Choice heavy and butchers selections 5 30a5 45, packing and yorkers 5 00a5 25, com-

mon to good pigs 4 20a5 00.

SHEEP — Receipts 2,600, shipments 2,400.

Fair to choice clipped 3 00a4 00, lambs 3 60a3 75.

Chicago.

The Drovers' Journal reports:

CATTLE - Receipts 12,000, shipments Market 10al5c lower for common natives. Shipping steers, 3 45a4 20; stockers and feeders, 150a3 20; cows, bulls and mixed, 1 25a2 90; Texas cattle, 1 50a3 10.

HOGS-Receipts 13,000, shipments 4,000. Market steady. Rough and mixed 5 00a5 30, packing and shipping 5 20a5 45, light 5 00a5 45, skips 3 00a5 00.

SHEEP-Receipts 4,000, shipments 400. Market slow and steady. Natives 3 50a4 90, Texans 2 50a3 50, lambs 4 00a5 50 per 100 lbs.

Kansas City.

Received from 5 p. m. Saturday to 12 m. to-day, 1,541 cattle, 5,171 hogs and 124 sheep. Held over, 227 cattle, 4,312 hogs and 830 sheep. Total, 1,768 cattle, 10,483 hogs and 954 sheep.

CATTLE - Shipping steers 400, butchers steers 2 85a3 30.

HOGS-The most notable feature of the market to-day was the over-supply of common, rough, half-fat and light hogs. The dry weather is apparently having the effect of sending in half-fat stock. Range for mixed 4 65, sorted 5 00a5 30.

SHEEP-Medium fleshed 88 to 90 lb. muttons sold last Monday pretty freely at 3 25, and the same kind were dull to-day at 2 75, which is about the decline on muttons at all the leading markets, owing to a general glut last week.

PRODUCE MARKETS.

New York.

WHEAT-No. 2 red, 78% a78% c elevator, 80% a 80%c delivered.

CORN-No. 2, 45% e elevator. St. Louis.

WHEAT-Higher. No. 2 red, cash, 69%c. CORN-Higher. Cash, 35c. OATS-Firmer. Cash, 22%c. RYE-Dull at 43c.

Chicago.

Cash quotations were as follows: WHEAT-No. 2 spring, 68%c; No. 3 spring, nominal; No. 2 red, 71c.

CORN-No. 2, 39a39%c. OATS-No. 2, 241/4 a241/4 c. RYE-No. 2, 44c.

Kansas City.

WHEAT-No. 2 soft winter, cash, no bids nor offeringsNo. 2 red winter, cash, no bids nor

CORN-No. 2 cash, 33%c bid, 33%c asked. OATS-No. 2 cash, 21%c bid, no offerings.

RYE-No. 2 cash, no bids nor offerings. HAY - Receipts 12 cars; market steady

Loose from wagons: prairie, 65c per 100 lbs.; timothy, 70c. Consignments in car lots: fancy, small, new, 6 00a7 00 per ton; large, 4 00

TWO-CENT COLUMN.

for short time, will be charged two cents per word for each insertion. Initials or a number counted as one word. Cash with the order.

WILL SELL THOROUGHBRED BERKSHIRE VV Hogs, and all my pure-bred Plymouth Rock Chickons at half of former prices, during the next thirty days. W. B. Scott, Emporia, Kas.

POR SALE—Eight and a kalf miles from Topeka, on Carbondale road, 160 acres of excellent soil, all fenced, large orchard, running water, wells, cross fences. Price \$50 per acre. For particulars a: ply to C. L. DeRandamie, 107% East Seventh street, Topeka.

FOR SALE—Eight and a half miles from Topeka on Carbondale road, 340 acres, excellent soil, all fenced, six-room frame dwelling house, large stone barn for twenty horses, hay loft holding forty tons, ever-running spring, four wells, large cattle sheds and corrals, large orchard, i acre of bearing grapevines, large stone smokehouse. Price \$50 per acre. For particulars apply to C. L. DeReRandamie, 107½ East Seventh street, Topeka.

FOR SALE—A highly improved farm of 160 acres, all under fence, four miles from Wakarusa station, with large dwelling house; stable with loft for twenty-five tons hay, crib for 1,000 bushels of corn. smoke house, 500 fruit-bearing trees, 1½ acres of bearing grapevines, excellent well and creek, 16acres of corral, 10 acres of timber. Price 850 per acre. Also, the lease-hold of 160 acres adjoining—70 acres in sowed grass, 82 in corn, balance pasture. For particulars apply to C. L. DeRandamie, real estate agent, 107½ East Seventh street, Topeka.

WANTED—To exchange, or sell and buy, an Angus Bull, to avoid relationship. Address E. W. Al-berty, Pittsburg, Crawford Co., Kas.

FOR SALE—Two yards Wyandotte Chickens, one yard Partridge Cochins. One cock and five hens each. I will sell cheap. Extra good stock. Jno. I. Hewitt, Tenth street east, Topeka.

A NO. 1 FARM FOR SALE.—A good part can be readily irrigated, making it especially adapted for producing vegetables and fruits. Will sell low, compared with the true value. Address Box 3, Rock, Cowley county, Kas.

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OTRAYED OR STOLEN—One blood-bay Mare, 15 hands high, crippled in right hind foot. Also, one brown Mare, 14 hands high, with brown colt; coit had halter on when last seen. Finder will please call at corner Huntoon and Lincoln streets, and get reward. J. T. Franklin, Topeka.

STOLEN. — Black horse, white face, high neck heavy mane but short, long heavy tail, shoes on front feet. \$25 reward. C. R. McDowell, 393 Morris avenue, Topeka, Kas.

WILL SELL OR TRADE — One-half blood Clydo Stallion, Annandale, Jr.; brought from Illineis; acclimated and a good breeder. W. Guy McCandless, Cottoawood Falls, Kas.

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POR RENT—For cash, a Farm of 800 acres, fourteen miles northeast of Council Grove, Kas. It has a good house and barn and well, 52 acres broke and 640 acres fenced with four strands of barbed wire Address S. S. Cartwright, Topeka, Kas.

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(Vol 26, A. S. H. H. Book.)

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When you want reliable to describe the described in the counterfeit.

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When you want reliable indemnity, at the lowest possible cost; When you want to patronize a Kansas institution that can always be found when wanted; When you want to do your business with old citizens of Kansas, who have an unimpeachable record for strict integrity; When you want an agency for your vicinity, remember not to be misled by designing scoundrels who talk only of "the home company," but apply to

KANSAS HOME INSURANCE COMPANY,

AND TAKE NONE OTHER.

TOPEKA, KANSAS.

J. E. BONEBRAKE, Pres't. THEO. MOSHER, Treasurer.

O. L. THISLER, Vice Pres't. M. P. ABBOTT, Secretary.

ABILENE, :: KANSAS,

Insures Farm Property, Live Stock and Detached Dwellings Against Fire, Tornadoes, Cyclones and Wind Storms.

CAPITAL, FULL PAID, : : : : : \$50,000.

The last report of the Incurance Department of this State shows the KANSAS FARMERS' FIRE INSUR-ANCE COMPANY has more assets for every one hundred deliars at risk than any other company doing bus-iness in this State, viz.:

The Kansas Farmers' has \$1.00 to pay \$18.00 at risk: the Home, of New York, \$1.00 to pay \$46.00; the Continents in this State, viz.:

The Kansas Farmers' has \$1.00 to pay \$80.00; the German, of Freeport, Ill., \$1.00 to pay \$70.00, the Burlington of Iowa, \$1.00 to pay \$78.00, and the State of Iowa has \$1.00 to pay \$79.00 at risk.

Garden City,

The QUEEN CITY of the Arkansas Valley.

Surrounded by the FINEST LANDS in Kansas. Lands cheap, but developing rapidly.

Now is the time to invest! Deeded Lands, \$4 to \$7 per acre.

Write for full information to STOUKS & MILLER,

The leading Real Estate Firm in GARDEN CITY, KANSAS.

HEADQUARTERS FOR KANSAS. EIGHTH ANNUAL FAIR



-AND-

PIANO

The Best in Quality. Reasonable in Price.

We offer special inducements to those wishing to buy for cash or on easy payments.
Write to or call on

E. M. MILLER & CO.,

K11 Kansas Avenue,

TOPEKA, KAS.

LEAD ALL OTHERS.

BISMARCK

LAWRENCE, KANSAS, SEPTEMBER 5th to 11th, 1887.

\$20,000 IN PREMIUMS.

HENRY W. ROBY, M. D., SURGEON

General Manager Kansas Surgical Hos-pital Association.

OFFICE:-118 Sixth Avenue W., TOPEKA, A9

THE STRAY LIST.

HOW TO POST A STRAY.

THE FEES, FINES AND PENALTIES FOR NOT POSTING.

POSTING.

BY AN ACT of the Legislature, approved February 27, 1866, section 1, when the appraised value of a stray or strays exceeds ten dollars, he County Clerk is required, within ten days after receiving a certified description and appraisement, to forward by main notice containing a complete description of said strays, the day en which they were taken up, their appraised value, and the name and residence of the taker-up, to the KANSAS FARMEN, together with the sum of fifty cents for each animal contained in said actice.

And such notice shall be published in the FARMEN in three successive issues of the paper. It is made the duty of the proprietors of the KANSAS FARMEN to send the paper, free of cost, to every County Clerk in the State, to be kept on file in his sifice for the inspection of all persons interested in strays. A penalty of from \$5.00 to \$50.00 is affixed to any failure of a Justice of the FARMEN for a violation of this lew.

Broken animals can be taken a stany time in the

Broken animals can be taker - at any time in the

year.
Unbroken animals can ov!y taken up between the first day of November ar/'n first day of April, except when found in the 'swful enclosure of the

taker-up.
No persons, except citie and householders can

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

If an animal liable to be tr) an up, shall come upon the premises of any person, and he fails for ten days, after being notified in writing of the fact, any other citizen 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 description 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 affidavit stating that such stray was taken up on his premises, that he did not drive nor cause it to be driven there, that he has advertised it for ten days, that the marks and brands have not been altered; also he shall give a full deccription of the same and its cash value. He ishall also give a bond to the State of double the value ef such stray.

The Justice of the Peace shall 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-

stray.

If such stray shall be valued at more than ten dollars, it shall be advertised in the Kansas Farmer in

lars, it shall be advertised in the KANSAS FARMER in three successive numbers.

The owner of any stray may, within twelve months from 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.

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 complete 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 heuseholders to appear and appraise such stray, summons to be served by the taker-up; said appraisers, 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 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 costs of taking up, posting and taking eare 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 forfeit double the value of such stray and be subject to a fine of twenty dollars.

FOR WEEK ENDING JULY 21, 1887

Clark county-J. S. Myers, clerk.

COW-Taken up by Josiah Cavin, in Englewood tp., (P. O. Englewood), May 18, 1887, one spotted cow, no distinct marks or brands; valued at \$20. PONY-Taken up by J. S. Hodges, in Englewood tp., (P. O. Englewood), May 19, 1887, one sorrel mare pony, three white feet, no brands; valued at \$20.

Allen county-R. W. Duffy, clerk.

PONY—Taken up by S. S. Speakman, in Humboldt tp., June 20, 1887, one sorrel mare pony, 7 years old, branded on left shoulder with Spanish brand, white spot on left shoulder; valued at \$20. Barber county-Robt. J. Talioferro, clerk.

HEIFER—Taken up by M. McGuire, in Sharon tp.. (P. O. Sharon), June 28, 1887, one white heifer, under part of both ears cut off; valued at \$8.

Ness county-G. D. Barber, clerk. HEIFER—Taken up by James Farr, in Franklin tp., June 29, 1887, one spotted 3-year-old helfer, branded Z; valued at \$18. HEIFER—By same, one white helfer, 3 years old, branded H; valued at \$20.

Cowley county-S. J. Smock, clerk.

COW AND CALF—Taken up by George Merang, in Creswell tp., July 1, 1887, one roan cow. Ilne back, drooped horns, right horn partly broken off, gives milk from six teats, no brands; red heifer calf at side with star in forehead.

Johnson county-Henry V. Chase, clerk. HORSE—Taken up by Jerry Williams, in Oxford tp., one bay horse, black mane and tail, white spot in forehead, branded D on right shoulder; valued at \$40.

FOR WEEK ENDING JULY 28, 1887

Barber county-Robt. J. Talioferro, clerk. MARE AND COLT—Taken up by E. T. Mathew, in Hazelton tp., (P. O. Hazelton), July 6, 1887, one from gray mare, weight 1,200 pounds, blind in right eye, no brand; horse colt, bay, two white feet, no brand; valued at \$150.

Sedgwick county-E. P. Ford, clerk.

neha tp., June 24, 1887, one sorrel horse, 6 years old, 14 hands high; valued at \$40. Nemaha county-R. S. Robbins, clerk.

PONY—Taken up by G. W. Conrad, in Caploma tp., (P. O. Caploma), July 8, 1887, one dun mare pony, about 4 years old. branded E on left jaw and Mexican brand on left hip; valued at \$20. Bourbon county-E. J. Chapin, clerk.

PONY—Taken up by C. Goucher, in Pawnee tp., Jane 30, 1887, one sorrel horse peny, about 12 years old, blind in left eye, branded W on right hip; valued

Ness county-G. D. Barber, clerk. PONY—Taken up by F. L. Murdock, in Center June 3, 1887, one bay horse pony, brand on should and hip, right hind foot white, star in forehead; valued at \$35.

PONY—By same, one fron-gray mare pony, no brand: valued at \$40.

Johnson county-Henry V. Chase, clerk. COW—Taken up by ——, one dark red cow, about 5 years old, branded O on hip, rope mark around head at base of horns: valued at \$12.

Shawnee county-D. N. Burdge, clerk. BULL—Taken up by H. W. Hampe, in Dover tp., July 2, 1887, one dark red bull, about 2 years old, a lit-tle white under body and on front legs, branded R on left hip, no other marks or brands visible: valued at \$15.

FOR WEEK ENDING AUGUST 4, 1887

Brown county-G. I. Prewitt, clerk.

STEER-Taken up by Robert Gaston, in Hamlin p., July 11, 1837, one 1-year-old red steer, crop off left ar, swallow-fork in right, branded H on left hip; alued at 915.

Chase county—J. J. Massey, clerk.

PONY—Taken up by A. L. Morrison, in Bazaar tp.,
(P. O. Matfield Green), one horse pony, 4 years old,
i4 hands high, four white feet, white face, no other
marks or brands; valued at \$30.

Atchison county-Chas. H. Krebs, clerk. MARE—Taken up by Wm. Fitz Charles, in Shannon tp. (P. O. Atchison), June 29, 1887, one light gray mare 16 hands high, no marks or brands, 9 or 10 years old valued at \$50.

Pratt county-Demcy Lewis, clerk.

PONY—Taken up by Henry Secrest, in Haynesville tp. (P. O. Silverton), one gray horse poxy, 15 hands high, heart-shaped brand in left flank; valued at \$40. PONY—By same, one sorrel horse pony, 14½ hands high, heart-shaped brand in left flank; valued at \$40.

Comanche county-Chas. P. Overman, clerk. HEIFER—Taken up by Geo. A. Poppleton, in Powell tp., (P. O. Poppleton, July 8, 1887, one red and white yearling heifer, indescribable brand; valued at §7.

Cherokee county-L. R. McNutt, clerk. MARE—Taken up by T. Conklin, in Pleasant View tp., July 6, 1887, one dark brown or black mare, branded XZ on left thigh, right hind foot white, star in forehead and supposed to be about 8 years old.

Jefferson county-E. L. Worswick, clerk. PONY—Taken up by Abram Stauffer, in Delaware tp., on or about the 11th day of July, 1887, one bay horse pony, white strip on face, white left hind foot brand on left faw q, brand on left shoulder Y S, indescribable brand on hip; valued at \$15.

FOR SALE!

Four Colonies Italian Bees, at \$5.00 each. Four Trios Prize-winning S. C. B. Leghorns, at \$2.50 per trio. Must be sold. Address 924 Kansas Avenue, Topeka, Kas.

FOR SALE!

A fine Stock Ranch of 800 acres, all in one body and all fenced and perfectly watered by never-falling spring creeks; 80 acres of blue grass; 150 acres valley land; a \$500 barn, new house; large stone spring house over one of the largest springs in Kansas, that never fails; 700 apple trees, 160 plum, 25 cherry, 25 pear and 800 peach; also small fruits, 100 grape vines and 25 crab apples; young groves of maple, walnut, catalpa and poplar of about 4 acres. Lowest price—\$22 per acre. Will take good farm or city property in part; balance long time.

WM. FITZGERALD, Atlanta, Cowley Co., Kansas.

FOR SALE! Large English Berkshire Hogs

Being obliged to change my business, on account of the burning of my hotel, I will sell at Low Prices

All My Brood Stock and Pigs.

The old stock is all recorded and the young stock is eligible to record. Correspondence solicited. The stock can be seen at the owner's residence, one-half mile north of Emporia Junction.

Satisfaction guaranteed.

I. P. SHELDON, Emporia, Kas.

STOCK SALE!

AUGUST 17, 1887.



On above date, I will offer for sale, at my farm, adjoining Wakefield, Kas., at 1 o'clock p. m., the following stock, to-wit:

Sheep will be sold in lots to suit purchasers. E. JONES, Prop'r, Wakefield, Kas. J. S. Thompson, Auctioneer.

Sheep--For Sale--Sheep!

Rams, Wethers, Ewes, Lambs. Rams thoroughbred, balance high-grade Merinos. Staple long; fleeces average eight pounds. Ewes lamb in May. Shearing commences June 1. Will sell before or after that time. Range overstocked and must sell. T. O. FOX, Ellsworth, Kansas,

PUBLIC SALE

Blooded Cattle!



W. J. ESTES & SONS,

WINFIELD, KANSAS,

Wednesday, August 17, 1887.

Sixty head of Cattle, consisting of

THOROUGHBRED HOLSTEIN-FRIESIANS AND GRADE COWS AND HEIFERS; NIAGARA 858, A GRANDSON OF ECHO 121, THE FINEST HOLSTEIN BULL IN THE STATE; ALSO A FEW GRADE SHORT-HORNS AND HEREFORDS. The sale will be held at S. Allison's Livery Barn in Winfield, commencing at 10 a. m. TERMS: — Twelve months time for sums over \$10. Bankable notes without interest, if paid when due: if not, 12 per cent. from date. Ten per cent. discount for cash. WALTER DENNING, Auctioneer.



EARLY DAWN HEREFORD HERD,

The Champion Herd of the West,

-CONSISTING OF

250 HEAD OF THOROUGHBRED HEREFORD CATTLE.

The sweepstakes bulls Beau Monde and Beau Real and first-prize Wilton bull Sir Julian, out of the famous English show cow Lovely, by Preceptor, are our principal bulls in service.

E. S. SHOCKEY, Secretary, Maple Hill, Kansas. Twenty miles west of Topeka, on the C., R. I. & P. R. R.



TOPEKA HEREFORD CATTLE CO.

TOPEKA, -:- KANSAS.

FIFTY HEAD CHOICE COWS AND HEIFERS FOR SALE. New Catalogues on appplication.

We have also for sale for the Curran Cattle Co., of Harper, Kansas, 350 head of Grade Cows and Heifers.

F. P. CRANE. Manager.

C. E. CURRAN,

SPECIMEN OF CALVES BRED AT THE

MOUNT -:- PLEASANT -:- STOCK -:- FARM.



Descendants of Royal English winners and Sweepstake winners at the prominent fairs of the United States. Sweepstakes herd at the great St. Louis Fair in 1885.

This herd is one of the oldest and largest in the country, comprising 300 head of choicest Herefords from all the best strains in England and America. The herd is keaded by famous direprize and sweepstakes bulls: FOHTUNE 2080, one of the most celebrated bulls of the breed, by the famous Sir Richard 2d 970a—the smoothest, blocklest family of the breed: Sir Evelyn 9650, one of the best sons of Lord Wilton 4957: Grove 4th 13732, an illustrious sen of Grove 3d 2490; Dewsbury 2d. 18977, by the celebrated Delley 9495.

TF FOR SALE—Cows, Bulls and Heifers, either singly or in car lots, at the very lowest prices consistent with first-class breeding and individual merit. Special prices given to parties starting herds. Visitors always welcome. Catalogues on application.

J. S. HAWES, Colony, Anderson Co., Kas.

J. S. HAWES, Colony, Anderson Co., Kas.

Kansas City Stock Yards,

KANSAS CITY, MISSOURI,

Are by far the most commodious and best appointed in the Missouri Valley, with ample capacity for feeding, weighing and shipping cattle, hogs, sheep, horses and mules. No yards are better watered and in none is there a better system of drainage.

Higher Prices are Realized

Here than in the markets East. All the roads running into Kansas City have direct connection with the Yards, which thus afford the best accommodations for stock coming from the great grazing grounds of Texas, Colorado, New Mexico and Kansas, and also for stock destined for Eastern markets.

The business of the Yards is done systematically, and with the utmost promptness, so that there is no delay and no clashing, and stockmen have found here, and will continue to find that they get all their stock is worth, with the least possible delay.

Consisting of twenty-five rams, the remainder ewes, wethers and lambs; nine head horses, mules and colts; sixteen cows, steers and calves, and twelve head hogs; two full-blood Poland-China boars and two sows 3 months old. Time and Terms—Given on day of sale. Sheep will be sold in lots to suit purchasers. E. JONES Provided The Company Horse and Mule Market. FRANK. E. SHORT. CAPT. W. S. TOUGH.

Managers.

This company has established in connection with the Yards an extensive Horse and Mule Market, known as the KANSAS CITY STOCK YARDS COMPANY HORSE AND MULE MARKET. Have always on hand a large stock of all grades of Herses and Mules, which are bought and sold on commission, by the head or in carload lots.

In connection with the Sales Market are large feed stables and pens, where all stock will receive the best of care.

Special attention given to receiving and forwarding.

The facilities for handling this kind of stock are unsurpassed at any stable in this country. Consignments are solicited, with the guarantee that prompt settlements will be made when stock is sold.

C. F. MORSE. E. E. RICHARDSON, Secretary and Treasurer. General Manager

H. P. CHILD

Superintendent.

The Veterinarian.

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

MAGGOTS IN SHEEP .- I think that I can now pronounce myself an expert upon the treatment of maggots, as I be have experimented with nearly every remedy I ever heard of, such as carbolic acid, tobacco and many others unnecessary to mention. My conclusion is, that McDougall's Dip is the best to free the sheep of maggots in cases where it can reach them effectively; especially is this dip useful to kill them in the ears, which I find is the most dangerous place for them to accumulate, but in deep recesses where it cannot reach them, a little calomel is the best to stir in among them. This is certain destruction, and also very healing to putrid

the belly on quarters of my mare, between her legs. She seems to be itchy, but I cannot see any eruption. Her appetite is very poor, and she is thin. She had a colt last spring, and when we took it from her in the fall, had a hard time to get her dry. Her bag became very much swollen, and the veterinarians said she was threatened with milk fever. She seems to be a little stiff in her hind legs; raises them higher than is natural, when first taken from the stable. Her feed is prairie hay and oats. We drive her just enough for exercise. [Give one of the following balls every five days until all are used: Powdered iodine, 2 drachms; powdered iodide of potassium, 6 drachms; powdered Barbadoes aloes, 18 drachms; powdered gentian root, 21 ounces, and a sufficient quantity of syrup. Make into six balls. Her teethe probably need some filing, etc. Are there any lice on skin? Rub a very little kerosene oil on the skin where the hair is loose, and wash it off next day with hot water and soap. Do not cover a space of more than one square foot at a time; if there is more space than that, do a part; then, in a few days, another part, and so on. I do not like to prescribe this oil, but I do not think you could obtain proper remedies in the Territory.]

JOINT DISEASE IN COLTS.-Will you please tell me what is the trouble with my colts? About two weeks ago a twoweek-old colt came in from pasture with its right hock joint swelled up. I have used Mustang Liniment every day since. The fever has gone out, but the swelling is still there. This morning another colt is in the same fix. A good many colts have died from the disease-in some of them both joints swelling. Have they got the rheumatism? and with what would you advise me to treat them? [The disease with which the colts are affected is an inflammation of the joints. The disease at one time was thought to be of a rheumatic nature, but recent investigations do not confirm that idea; and in this connection it may be remarked that it does not prevail merely during cold, wet seasons, which se if the disease were of a rheumatic nature. As it now appears evident that the joint disease of colts arises from an unhealthy inflammation of the stump of the umbilical cord it is important as a means of prevention to give special care to the treatment of the navel after birth. For this purpose, when the disease is prevalent, the navel of the colt should be washed two or three times a day with the solution afterward mentioned. This should be continued from the day of birth until the time that the navel is completely

healed. The object of applying this treatment is to prevent the development of an unhealthy inflammation at the navel, which would occasion blood poisoning and afterward swelling and inflammation of the joints. If the mare and colt are at any time kept in a stall or shed all dung and wet litter should be removed once a day, and a little unslaked lime should afterward be sprinkled on the floor of such place. The contact of the raw umbilicus or navel with filth of any kind is dangerous. Recent investigation also appears to show that the disease is contagious; so the prevention of its occurrence on a farm becomes a matter of great im-portance. Colts affected with joint disease should get from five to ten grains of salicylate of soda three times a day in a little water, and camphorated spirit should be rubbed gently twice a day on the affected joints. If the swelling of the joint ulcerates and discharges, or if the swelling evidently contains matter (pus) and is opened, then once a day a tion, and also very healing to putrid parts. Coal tar is the best prevention against the fly; no carbolic mixture will answer as well in my experience.

Horse Out of Condition.—I notice the hair is coming out in spots under the belly on quarters of my mare, between the health of the province of the health of the province and is opened, then once a day a solution composed of carbolic acid 1 drachm, water 6 ounces, should be syringed into the joint, and then it should be bandaged, so as to exclude the air. This solution may also be applied to the navel. When the disease, however, has attained the stage last described the colt seldom recovers so as to be of any use afterward. Great imto be of any use afterward. Great importance ought therefore to be attached to preventive measures.]

TOWHEAD STOCK FARM

LEONARD HEISEL,

CARBONDALE, (OSAGE Co.), KANSAS,

Importer and Breeder of



Prince of the Times 4650.

Clydesdale & Norman HORSES.

ection of Imported Pure-bred and Reg-stered Clydesdales

at low prices.

Each Stallion
guaranteed a breeder. Correspondence solicited.

RIVERSIDE STOCK FARM, DECEN BROS., Ottawa, III.



Importers and Breeders of French Draft and French Coach Horses. We have now over 75 head of imported French Draft Stallions and Mares on hand. Our importations this year have been selected from the best breeding district in France. Our stock is all recorded in France and in the National Register of French Draft Horses in America. Our France Western Stallion of France Stalling St

BENNETT & SON.

TOPEKA, - KANSAS,



IMPORTERS AND BREEDERS OF

Percheron, Clydesdale and Coach Horses.

106 Head of Stallions just arrived from Europe. Choice stock for sale on easy terms. We won all the leading prizes at Kansas State Fair last fall. Send for Illustrated Catalo ue, free on application

IMPORTERS AND ÉREEDERS OF ENGLISH SHIRE AND SUFFOLK PUNCH HORSES

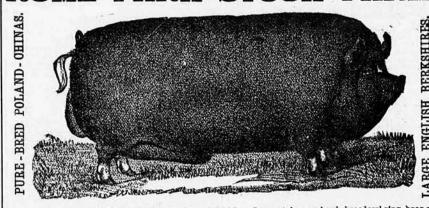
RED POLLED CATTLE.

We have on hand a very choice collection, including a recent importation of horses, several of which have won many prizes in England, which is a special quarantee of their soundness and superiority of form and action. Our stock is seperated by G. M. Sexton, Auctioneer to the Shire Horse Society of England.

Send for catalogues to Sexton, WARREN & OFFORD,

34 East Fifth Ave., Topeka, or Maple Hill, Kansas.

ROME PARK STOCK FARM.



T. A. HUBBARD, PROP'R, WELLINGTON, KANSAS.—Sweepstakes on herd, breeders' ring, boar and sow, wherever shown in 1886, except on boar at Winfield, winning (75) premiums at four fairs, including Grand Silver Medal for Best Herd, at Topeka. Stock recorded in Ohio Poland-China and American Berkshire Records. In addition to my own breeding, the animals of this herd are now and have been prizewinners, selected from the notable and reliable herds of the United States, without regard to price. The best and large-t herd in the State. I will furnish first-class hogs or pigs with individual meritand a gilt-edged pedigree. Single rates by express. Personal inspection selicited. Correspondence invited.



Chester White, Berkshire and Chester White, Berksnire and Poland-China Plgs, fine Setter Dogs, Scotch Coilles, Fox Hounds and Beagles, Sheep and Poultry, bred and for sale by W. Gibbons & Co., West Chester, Chester Co., Pa.

Send stamp for Circular and Price List.

CHOICE

Berkshire and Small Yorkshire

PIGS and MAMMOTH BRONZE TURKEYS. We have a splendid lot of the above named hogs and turkeys for sale at hard time prices. Write for prices before making purchases if you need anything in this line. Satisfaction guaranteed. WM. BOOTH & SON, Winchester, Kas.

SELECT HERD OF LARGE BERKSHIRES

G. W. BERRY, PROP'R, TOPEKA, KAS.

My breeders have been selected, regardless of expense, from the leading herds of the United States; are bred from the best stock ever imported, and represent seven different families. Healthy pigs from prize-winning stock for sale. Write for circular and prices or come and see. [Mention this paper.]

ENGLISH BERKSHIRES.



THE WELLINGTON HERD consists of twenty satured brood sows of the best families of THE WELLINGTON HERD consists of twenty matured brood sows of the best families of home-bred and imported stock, headed by the celebrated HOPEFUL JOE 4889, and has no superior in size and quality nor in strain of Berkshire blood. Also Plymouth Rock Chickens. Your patronage solicited. Write. [Mention this paper.]

M. B. KEAGY, Wellington, Kas.

PLEASANT VALLEY HERD

Pure-bred Berkshire Swine.



I have thirty breeding sows, all matured animals and of the very best strains of blood. I am using three splendid imported boars, headed by the splendid prizewand gold medal at the leading shows in Canada in 1881. I am now prepared to fill orders for pigs of either sex not akin, or for matured animals. Prices reasonable. Satisfaction guaranteed. Send for catalogue and price list, free.

S. MOCULLOUGH,
Ottawa, Kansas.

OTTAWA HERD.



POLAND-CHINA & DUROC-JERSEY SWINE of the most popular strains, at prices to suit the times. Send for catalogue and price list.

I. L. WHIPPLE, Ottawa, Kansas.

THE GOLDEN BELT HERD OF THOROUGHBRED POLAND-CHINAS.



Choice animals of all ages generally on hand at prices to suit the times. Orders for extra

400

show Spring Pigs should be sent in at once. A few choice sows with pig, for sale. Breeders recorded in A. P.-C. Record. Pedigree with every sale. Safe arrival and satisfaction guaranteed. Low rates by express.

F. W. TRUESDELL, LYONS, KAS.

NATIONAL HERD. THOROUGHBRED POLAND



FOX RIVER VALLEY HERD OF IMPROVED CHESTER HOGS.



I have a few prize-winning boars for sale, also forty-five head of aged sows have farrowed this spring. Orders booked for pigs without money till ready to ship. Nothing but strictly first-class pigs shipped. Prices reasonable and satisfaction guaranteed. My motto: "Individual superiority and best of pedigrees." I am personally in charge of the herd.

The EVANS. Geneva. III. T. B. EVANS, Geneva, Ill.

${f RUPTURE}$

RELIEVED AND CURED

Without any operation or detention from business, by my treatment, or money refunded. Send stamp for Circular, and if not as represented will pay railroad fare and hotel expenses both ways to parties coming here for treatment.

DR. D. L. SNEDIKER, Emporia, Kas.

Over-loading is a fruitful source of balky horses.

"Golden Medical Discovery" - the great blood purifier.

Don't spoil your horse's temper by losing your own. It never pays to get mad at a

Cows about to come in should be watched. and, as their time approaches, reduce their food, to prevent garget and other troubles, giving plenty of good, sound hay.

Kansas leads the states in railroad building in 1887, with 692 miles the first half of the year. Texas follows with 489, then comes Nebraska with 331, and Dakota with 304, and so on down to Massachusetts with 11.

If you have chapped hands or rough skin, use Stewart's Healing Cream. Only 15 cents a bottle. Gentlemen who suffer from a tender face after shaving are delighted with it We only ask a trial. Stewart Healing Powder Co., St. Louis.

It is proposed to construct an underground railway in Chicago. It is designed to lay a tunnel thirty-five feet under the streets, reaching all quarters of the city. The lines on the principal streets would comprise four tunnels, two each for trains moving in different directions, and approached by staircases from the street corners at intervals of about half a mile. The system will be similar in design to the underground railways of Paris and London.

Farm Loans.

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Here is an Indiana chicken story, telegraphed from Indianapolis to Chicago: "A novel sight was witnessed here yesterday as a result of the high temperature of the past three weeks. Some time ago a firm received a consignment of eggs packed in boxes. The eggs were placed in storage and this morning the consignee opened them. When the lid was removed the low call of chickens sounded in his ears. One entire layer of eggs was found to be hatched out and in a few minutes afterwards fifteen orphans picked their way through the shells. Another layer began to hatch out at noon, and it now looks as if all would hatch."

The Pension Bureau is in receipt of a large number of letters from pensioners under the Mexican pension act of January 29, 1887, asking why payment does date date of passage of the act. As a general answer to these inquiries the commissioner desires it stated that by the terms of the law payment can only be made from January 29, 1887, where the pensioner has reached the age of 62 years prior to that date, and where the pensioner reaches the age of 62 subsequent to that date payment will be made from that date. Thus, if the pensioner was 62 years of age on March 1, 1886, he will be paid from January 29, 1887. If he was 62 years old March 1, 1887, he would be paid from that date. This does not apply to applicants on the grounds of disability and dependence.

Are You Going South?

If so, it is of great importance to you to be fully informed as to the cheapest, most direct and most pleasant route. You will wish to purchase your ticket via the route that will subject you to no delays, and by which through trains are run. Before you start, you should provide yourself with a map and time table of provide yourself with a map and time table of the Gulf Route (Kansas City, Ft. Scott & Gulf R. R.), the only direct route from and via Kansas City to all points in Eastern and Southern Kansas, Southwest Missouri, and Texas. Practically the only route from the West to all Southern cities. Entire trains with Pullman Palace Sleeping Cars, and Free Reclining Chair Cars, Kansas City to Memphis; through Sleeping Car, Kansas City to Memphis; through Sleeping Car, Kansas City to New Orleans. No change of cars of any class, Kansas City to Chattanooga, Knoxville and Bristol, Tenn. This is the direct route, and many miles the shortest line to Little Rock, Hot Springs, Eureka Springs, Fort Smith, Van Buren, Fayetteville, and all points in Arkansas. Send for a large map. Send for a copy of our "Missouri and Kansas Farmer," an 8-page illustrated paper, containing full and reliable information in relation to the great States of Missouri and Kansas. Issued monthly and mailed free.

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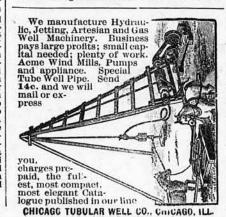
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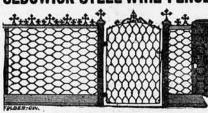
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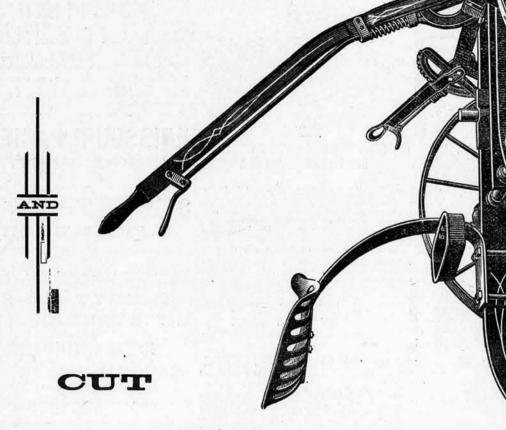
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