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DISEASES OF PLANTS AND THEIR REMEDIES.

Read before the Society of American Florists, at the Annual Convention, held in Cincinnati, July 12th, 13th and 14th, 1885. By Charles Henderson, Jersey City Heights, N. J.

In undertaking a subject of such wide scope and vital importance, I realize fully my unfitness to instruct such a body of older and more experienced men, but as every one's experience is of some value, I trust you will not consider these ten minutes

wasted. In my observation, very few plants are attacked by insects or disease when in vigorous health. It is only when the vitality is impaired or the growth checked by any cause that they strike. Red spider rarely troubles plants when growing strongly and even the mealy bug seems to pursue his ravages more vigorously when growth is slower during the winter months. As instances of this, we find that Coleus are badly injured in mid-winter by mealy bugs, but outgrow their attacks in spring and summer. Bouvardia is another case in point, being one of the worst plants we have for the mealy bug, yet when spring comes, and plant vigor asserts itself, they seem to a great extent to disappear. Mildew attacks your roses when a ventilator is raised care lessly on a cold raw day, and the chilling air strikes down on the soft growth, checking the flowing sap and leaving the plant in a depilitated condition, which invites the fungus known under this name. A marked instance of this occurred in our place years ago. We had a house filled with hybrid roses in full leaf and just showing bud; the house was ventilated by old fashioned square ventilators that slid up and down. One afternoon they were carelessly left open too long, and the plants under the openings were slightly frozen. The frost apparently did but little injury, but in two days the plants that had been under the openings were completely covered with mildew, while the rest of the house was comparatively free from it. This showed conclusively that the affected plants were made liable to the mildew by having their vitality checked by the slight frost. Of late years, one of the most annoying diseases attacking plants is that affecting the carnation, and it is undoubtedly caused by working our stock year after year at a high temperature, which weakens the general vitality, and the disease, be it a fungus or an insect, quickly follows. In the fall of 1883, we had a surplus of two varieties of carnations, and rather than throw them away we "heeled" them in a cold frame, putting straw mats on the glass in extreme weather. They wintered well, and in March we put in a few hundred cuttings of each. We marked them, and last winter they were the best plants we had, not one of them dying off, while we arising from the tobacco will keep the green lost hundreds of the same kinds in our fly entirely under subjection. We kept a this plan was adopted of wintering carnations intended for propagation, that the 'carnation disease' would disappear. Another and perhaps more practicable way of avoiding the difficulty we have practiced for years, and that is to propagate our young there are ingredients used in curing the stock as early as possible in the winter and after they have become established, knock-

ened vitality being the cause and not the consequence of most plant diseases is, perhaps, best borne out in the case of the "black rust, or verbena rust." It is a common mistake for growers to use for planting out such plants of verbenas as have been propagated in mid-winter. These plants are usually held in the same pots long after they become pot-bound, and consequently are stunted and p-rhaps diseased when set out. Although they may appear to grow strongly at first yet the taint is there, and when mid-summer comes, with its protracted spells of heat and drouth, the vigor is gone completely, and the insect producing the disease we call "rust" appears in myriads. The true plan is to use for planting the last propagated plants in Spring, these sustaining no check, grow right along until mid-summer, when it is necessary to cut them severely back, and fork in a good dressing of manure as close to the plant as possible, followed up by a thorough soaking of water. This last of course, if the ground is dry, which is almost invariably the case in August. Plants so handled grow vigorously, avoid the fatal check, and give healthy cuttings when needed in October. The "rust" that is found on heliotropes, bouvardias, etc., is probably the same thing, or m uny case is produced by the same cause. This is particularly noticeable in heliotropes, as they become "rusted" at once if pot-pound. The insect producing "black rust' is invisible to the naked eye, but under the microscope somewhat resembles a cockroach in shape and general appearance. When plants are affected, a syringing twice a week with fir-tree oil is effective in checking it, but as in everything of this kind, pre vention is the best remedy.

Celery Rust.-Although this is a little out of the florist's line, yet a valuable lesson may be drawn from the causes that produce it. The celery "rust" is occasioned by any. thing that injures the roots, either an excess of rain or a drouth-either cause kills the working roots, and the yellowing up or "rusting" of the leaves soon follows. In the open field this is beyond our control, but the hint given is invaluable in operations under glass, where watering is under our command. There is but little doubt that nine-tenths of the failures in rose growing for flowers in winter is traceable to the working roots of the plants being destroyed by being kept too wet or too dry.

Green Fly.-Of course we all know that this insect can be destroyed by fumigation with tobacco, but in cases where cut flowers are grown, particularly roses, tobacco smoke will take the color out of the buds, and to a great extent lessen their value. The "fly" can be kept down by simply spreading tobacco stems about the house and giving them a dash of water whenever you are watering. The slight fumes that are constantly regular stock; and I firmly believe that if rose house, 312 feet long and twenty feet wide, entirely free from "fly" with a layer of tobacco stems, ten inches wide and two inches deep, running the full length of the house. It is not safe to put the stems on the bed where plants are growing, as sometimes tobacco which will cause injury to the plants. I have known several cases of this.

basis of most insecticides for mealy bug, will do the work, but it is too expensive for general use. The imported preparation known as "fir tree oil" is by far the best and most economical remedy we have yet tried. It kills the bug and its eggs and does no practical injury to the plants. In using the fir tree oil or any similar insecticide, it is better, when practicable, to dip the plants in the preparation. In my experience one dipping is as good as ten syringes and much more economical. A common error in the use of all insecticides is the want of persistence in their use. It is much better to use a weak application of any insecticide frequently than a stronger dose of it at less frequent periods. For example, we have always found it more effective and safe to fumigate with tobacco smoke our houses twice a week lightly, rather than once a week and more heavily.

Rose Bugs.-This most dangerous insect first appeared in quantity about seven or eight years ago, and probably you are all familiar enough with it by this time. It is about as large as a lady bug, but is brown in color. The perfect bug feeds on the tops, eating the leaves and doing some injury, but the great mischief is done by the larvæ feeding on the roots. This is a white grub about one-fourth of an inch long which is hatched in the soil by the bug. Its presence at the roots is quickly shown by the yellowing and dropping of the leaves, which by the inex-perienced, may be attributed to the ordinary causes of overwatering or too high a temperature, but if a plant is dug up dozens of the grub will be found about the roots. The only remedy seems to be to pick the perfect bugs from the tops by hand. The rose bug has not done so much damage in the last few years, as the now general practice of planting new stock each year seems to have disturbed and prevented their breeding.

Black Ants.-These symbols of industry will cause considerable injury and annoyance in a greenhouse if allowed to gain headway. They tunnel the soil in pots and benches, and carry the soil up the stems of the plants, and encrust with it the mealy bug and scale, which they pretend to devour but never diminish. They can be readily exterminated by dusting the large runs of them with Pyrethrum, applied with a bellows. It is useless to spread it around by hand, as they are killed by breathing it, and it must be distributed in fine particles. In the winter of 1883 our place became badly infested with ants, and only the persistent daily use of Pyrethrum for three months exterminated them.

Mildow.-The only remedy we have ever used for mildew is sulphur, either by putting it on the pipes so that the funces will be thrown off by the heat, or in the liquid form as follows: 1 th lime and 1 th surphur in 2 gals. of water; boil this down to one gallon, and use a wineglassful of this to 5 ga a week. This is particularly useful in summer when not firing, and is a certain remedy. It has been recently suggested to use linseed oil mixed with sulphur for painting the pipes, it being claimed that in this way the sulphur would do no harm to the plants. Now, while the linseed oil may be a good thing to mix with the sulphur to make it stick to the pipes, it is certainly of no other

without injury to the plants. It has been our practice for years to sprinkle the pipes with water and then dust the sulphur on while wet, and I have never seen the slightest injury to roses or other plants by this manner of applying it. Many serious results have occurred by burning sulphur in greenhouses or applying it on brick flues, where the temperature is perhaps 300 degrees, but I never heard of injury to plants resulting from its being applied on hot water pipes where the temperature is usually under 200

Black Mildew or "Black Spot."-I have had scarcely any experience with this, as we never have had it on our place, except in a slight degree on some hybrid tea roses. I have noticed, however, that it is most prevalent in rose establishments where the stock is grown for propagation in shallow benches, in soil without manure. It is almost unknown where the plants are grown for cut-flowers, and consequently are liberally fed. In all probability this continued starving leaves the stock in such condition that it invites the "black spot." There is formula which is said to check it, but it has been kept a secret by the discoverer.

In conclusion I would say that, in my opinion, the ventilation of a greenhouse has more to do with the health of its contents than any other one cause. This is particularly true with roses. If air is given on a rosehouse, day and night during July and August, there will be little trouble with mildew, as the cool night air and the action of the wind all tend to toughen the fibre of the wood and leaves and give strength of constitution to the whole plant, so that when the spores of mildew and other fungoid diseases strike, they do not take root, but glance off harmlessly from the hardened and fortified foliage.

A Magnificent Display of Live Stock.

The display of cattle and horses and live stock of all kinds at the Great Wests ern National Fair at Bismarck Grove, Lawrence, Kansas, September 7 to 12, will be in all respects the most magnificent, remarkable and extensive that has ever been seen in the country. Magnificent animals of every known breed, the pick of the finest herds in the country will be on exhibition. The number of entries has been simply stupendous, horses and cattle being entered from all parts of the country, from New York and New England to New Mexico. The stock show at Bismarck alone will be worth going a thousand miles to see. Accommodations are now provided for nearly 2,000 head of live stock and still it is probable that there will not be sufficient room for all the stock that will be on exhibition.

The value of such an exposition to the farmers and stockmen of the West is incalculable. An opportunity for comparing the different breeds of horses, cattle hogs and water, and syringe the affected plants twice sheep and noting the excellencies and deficiencies of each, will be presented such as never was offered to the people of the West before. No farmer nor stockman should neglect this opportunity to add in an inestimable degree to his knowledge concerning live stock. In live stock as in everything improvements and developments are constantly going on, and is of money value to after they have become established, knocking them out of the pots and putting in shallow boxes in cold frames. This gives shallow boxes in cold frames. This gives them some of the needed rest, and the good effect is very marked. This theory of weak of the pots and putting in shallow boxes in cold frames. This gives them some of the needed rest, and the good effect is very marked. This theory of weak of the pipes, it is certainly of no other benefit. It is well known that sulphur mixed with water alone is used on hot water pipes in greenhouses and graperies, as an antidote against mildew and red spider, the week of September 7 to 12.

The Stock Interest.

PUBLIC SALES OF FINE CATTLE.

Dates claimed only for sales advertised in the Kansas Farmes

ANSAS FARMES:
eptember 18—H. M. Garlichs, Holstein-Friesians,
Kanssa City, Mo.
ctober 28—Hon, T. W. Harvey, Turlington, Neb.
lovember 3 and 4—Inter-State Short horn Breeders,
Kanses City Fat Stock Show.
E. Ward & Son Short-horns, first Friday of Kansas
City Fat Stock Show.

Thoughts on the Feeding of Swine.

Feeding animals for profit is a science. It must be conducted according to well-established rules. Not that the proceeding must be managed with the precision and exactness of a demonstration in geometry or the running of a perfect machine; but, as the National Live Stock Journal expresses it, there are certain principles in feeding pigs which are of great simplicity, and which should be regarded with extreme care, whether or not equal care is taken in the selection of the food. There is nothing more important than that pigs should be fed regularly, and whether the supply is given twice, three times, or four times daily, it should invariably be at the same hours.

There is entirely too much carelessness in feeding. Slovenliness, irregularity, impure feed, filth, etc., will no more succeed in hog feeding than damaged lumber and incapable workmanship will result in the erection of a good dwelling. It is believed by a large class of people, says the authority above quoted, that it is one of the simplest things in the world to feed a pig; and the bare idea of conducting a system of feeding upon anything approaching scientific principles is to them the height of absurdity. There is, however, no better method of testing the truth of what science, combined with practice, has taught us than the conduct of an experiment with pigs of a similar race and age upon two systems of feedingthe one being in accordance with the common, and, we might almost add, ignorantly applied, method; and the other gree. Boussingault, whose reputation consistent with the principles which a thoughtful study of the subject has laid | very high position, found, from a numdown. In pig feeding there are many ber of experiments which he made with things to consider, more particularly pigs: (1), that pigs fattened upon a now that it is most difficult to feed them mixed ration contained more fat than to profit, in spite of the lower price of that which they had received in their 1,425 in ten years, and will give enough grain. Foods which are used for the ration; (2), that pigs fed exclusively purpose are numerous, and, in many upon potatoes produced no more fat senses of the word, extremely good; but, in order to obtain remunerative and (3), that food which, given alone, have rapid results, a feeder should make him- not the faculty of developing fat, acself acquainted with their constituents, with the relative quantities required for manner when fat is added to them, althe purpose of sustaining the animals, though fat given alone produces inanifor maintaining their growth, and for tion; (4), that fat-producing rations, producing fat. Just as there are certain which only contain a minimum of foods, admirable in their way, upon fat, are always rich in nitrogenous propwhich a human being could not long erties. Nor is it necessary, in feeding, exist, so are there foods which, when that the trough should be filled, although given judiciously, are useful to pigs, but which, without the addition of other in the country, that a man is a liberal substances, would not only fail to in- and consequently a good feeder, if a crease their weight, however large the quantity given, but would prove insuffi- remaining in the trough when the aniof a digestible nature, or that it should gans of the animal, and enable it to appropriate the nutritive portions with a minimum of loss. It should not be forgotten that the sole end of pig-breeding is to obtain a large quantity of meat, of

quence, perhaps, of the common custom of keeping pigs in styes, many persons are under the impression that they neither need exercise nor green food; and, indeed, it is often forgotten that the pig is a grazing animal. It is a fact, however, that there is no domestic animal upon the farm which pays better for liberty upon the pasture; and it may be laid down as a practical truth that the pig breeder and feeder who grazes his breeding stock, as well as the young stock intended for fatting, will meet with a much larger meed of success than those whose animals are regularly confined to the stye, no matter how carefully they are managed or how admirably they are fed. It has been said that, as the object of a pig's life is successful fattening, if he fails in that, his life is a failure. Providing the animal is of a good breed, and is healthy, such a result could scarcely be brought about, unless by bad feeding and management. It is, nevertheless, a fact that, in the past few years, many practical breeders have lost money by their pigs notwithstanding the care with which they have fed them; but, as a general rule, however bad the market may be, there are always persons who, pursuing a practical system, are able to make a successful return where their neighbors lose money upon every pig which they put up to feed. * * * practice, it has been found that a mixed ration not only suits the constitution of the pig very much better than any other, but that it goes much further, especially

if it is given in a warm state. Experiments have also shown another fault in the system of feeding entirely upon one class of food. The digestive extraction of the whole of its nutritive properties; and, as in the case of man, it has been found that at least 50 per cent, is sometimes passed through the benefited the animal in the slightest deas a scientist places his opinion in a than was contained in their food; quire that faculty in an astonishing it is a common supposition, especially considerable quantity of meal is found cient to maintain a healthy condition. mal has satisfied itself and has lain There is no domestic animal which down to sleep. It is a fixed rule with feeds so rapidly as the pig, and probably all who have mastered the question, to none which so imperfectly masticates give no more than can be properly eaten. state, from the swill tub. The trough, feeder and obtain the largest quantity of the thickest food, leaving the' thinnest to find its way to the bottom of the a good quality, in as short a space of trough, where it is greedily consumed time as possible. The greatest quantity by the weakest pigs, which really need can not be obtained without green food the best. It has been frequently urged and suitable feeding, nor can we expect by old feeders that good food is comparquality without a combination of good atively thrown away upon fatting pigs if feeding and management. In conse- they are not groomed or kept in a thor- inflicted upon her.

oughly clean state. Some persons have gone so far as to say that a daily grooming is as valuable as an additional quantity of food; and that, moreover, it frequently answers to oil the coats of the pigs, both to prevent annoyance from vermin and to promote a feeling of satisfaction in the animals. Water, again, is most necessary in all cases where pigs are confined; and if it is absolutely pure, so much the better for their health. There is, however, an additional reason why it should be provided in sufficient quantity. In spite of the supposed preference of the pig for mud he invariably enjoys a bath in clean water, when it is provided for him in a basin in his stye; and there is no doubt that cleanliness thus promoted assists in the proper assimilation of the food.

The Sheep Interest Looking Up.

The New York Times takes the same view of the sheep business that we do. It says the sheep interest is looking up and promises to recover its lost ground very rapidly. For some reason-probably the folly of shepherds and woolgrowers more than anything else-wool varies in price considerably every few years. Wool buyers are not asleep and are continually watching the pulse, as indications of panic are noticed down go the prices, and then flocks are sacrificed. The recent panic began with some foolish men who declared the reduction of duty of five cents per pound upon wool would ruin the sheep interest. A great scare occurred, and while the sheep interest was not ruined a good many shepherds were, and lost money by wantonly sacrificing sheep for according to his strength; when brought twenty-five or fifty cents each. But organs of the animal are unequal to the their loss was the gain of others, who got the sheep for less than their value. It was a mere change of property, as when a man fools away his money by betting or other gambling. The sheep system into the manure without having interest has not suffered; it was merely transferred for a nominal consideration in part, to new hands.

Wool at thirty cents a pound is by no means a losing affair. When one hundred ewes, allowing the safe estimate of an increase of 80 per cent. and losses by death of 10 per cent., will increase to wool each year, even at twenty cents per pound, to pay expenses, the profit of a flock should be quite satisfactory; 1,425 per cent. in ten years is a larger profit than many farmers make and will compare favorably with any other business. So that, on the whole, if there are any persons who are making new ventures in this direction, or any who are fearing to hold on to their flocks at the present time, it may be clear to them that there is margin enough given for a hopeful if not certain success in this staple branch of agriculture.

While considering the subject of sheep-rearing and wool-growing it might prosperity of Ireland was at its height when the manufacture of woolen goods was the principal business. But when the crippling and final destruction of strongest will always get nearest to the made French Merino cloth famous over tion of the woolen business. And Iretion of the woolen business. And fre-land itself—alas, nothing more is needed than to point to its present condition as a proof of the infinite damage which the loss of sheep and her woolen factories inflicted upon her.

And fre-finely-powdered but vitin, one points, inley-powdered verdigris, half a pound; linseed oil, one pint; pine tar, one quart. The feet are thoroughly smeared with this, which is not washed off, as a solution would be, by the wet grass.

Getting Horses Into Condition.

A very good authority on horse management, Col. M. C. Weld, says that 'condition" in horses is not fat; it is hard, tough, elastic muscle, which may be actively worked without tiring the horse, without sweating, and without exhaustion of the vital forces, unless the exercise is utterly excessive. A horse out of condition is exhausted by a half mile or a mile trot, comes in puffing and breaks out in a sweat, while one in condition returns all the fresher in appearance for having his blood stirred. What makes the difference? Proper feeding, good grooming, and regular work or exercise, and enough of it. All exercise tires the muscles brought into play-a tired muscle needs feeding. The feed for the muscle is digested food. After any muscle has been taxed it is for some time in a condition to appropriate from the blood the proper elements to build itself up and increase its strength. When a horse is fed immediately before labor the food remains undigested until labor ceases, and then is liable to do harm. All horsemen know that a horse should not have a feed of grain when warm or until he has cooled off; yet, when they start a horse off to any kind of hard work, or road work, it were, of the wool-growers, and when before his food has had time to digest he is liable to be injured by it. After labor, as soon as a horse cools off and is rested, the blood, which the use of the muscles drew to the extremities, returns and is ready to take active part in the work of digestion. Then is the time to

To get a horse rapidly into condition, he should be well worked or exercised in, vigorously rubbed off and down, and when dry, cool, and rested, fed. His food should be good hay, when his appetite is sharpest, followed by grain (oats), which in quality should be unexceptionable, and in quantity gauged according to the work he does. Fat will sweat off, muscle will not. A fat horse is liable to indigestion, sunstroke, cold, flatulence (colic), and ever so many other ills, which a horse in condition is not only free from, but if properly fed, and cleaned, and worked, is not liable to get. It is usually poor economy to reduce either food or exercise.

Foot-Rot in Sheep.

In France the milk of lime has been found useful in preventing the spread of this disease, and for the cure of mild cases. So says the Scottish Agricultural Gazette. Shallow tanks or trays are placed at the doors of the sheep barn, and the animals, as they go out or in, bathe their feet in the liquid. These tanks are about ten feet long, and of a width suited to the doors of the sheep barn, and the sides are about four inches high, and there are strips nailed crosswise on the bottom to prevent the animals from slipping as they pass through be interesting to recall the fact that the the liquid. Lumps of quicklime are placed in these tanks, which, on the addition of water, slake, fall to pieces, and mixing with water form the milk of the jealousy of her British rulers led to lime, which is another name for whitewash. If the sheep on coming out bring its food. This being the case, it is still Like every other beast, a pig prefers this prosperous industry the downfall of litter with them, this should be removed more necessary that the food should be fresh tood, whether in a sweet or sour Ireland began. The skilled artisans from the tanks by means of a rake. left the country and escaped to France | Where the disease has established itself, be given in such a form as will make a also, should not be filled from one end and other countries in Europe, where the sheep must be treated individually. smaller demand upon the digestive or- when a number of pigs are confined in they established themselves and founded The diseased horn of the hoof must be the same stye. In such a case, the the fine woolen trade of France which cut away with a sharp knife, and all ulcers cleansed. A concentrated soluthe world. Marshal, and afterward tion of sulphate of copper (blue vitriol President, MacMahon is a descendant or bluestone) or a caustic ointment of of one of the Irish families who were some kind should be applied. A favorforced from their homes by the destruc- ite ointment for this disease consists of: Finely-powdered blue vitriol, one pound; Remedy for Thumps in Pigs.

Some time ago we published what follows, but is of sufficient value to present it again. F. D. Curtis, a wellknown writer on matters pertaining to agriculture, says he has cured thumps with the extract of fox glove (digitalis), by administering one or two drops at a time. One drop is sufficient for a small pig, and it should be given every three hours during the day. Thumps are caused by the palpitation of the heart, and owing to this palpitation the pig has no inclination to suck or eat, and it dies from exhaustion. Digitalis will cure thumps; it will stop the trouble when it first begins with a few doses, and it will cure in the last stages if carefully given as I have stated. I am the only one to my knowledge who has ever had the correct idea of thumps, or that cured a case when fully established. The disturbance with the heart is caused by excessive fat and lack of muscular deyelopment. Digitalis acts as a tonic, and helps to obtain a full and natural action of the heart. Exercise will keep off the thumps in the first stages, as it reduces the fat and has a tendency to develop muscular action.

Comparative Strain Upon the Fore and Hind Legs and Feet of the Horse.

A correspondent of the National Live

Stock Journal says:

All horsemen of extended experience have doubtless noticed that there is quite a difference among horses in the comparative strain they place upon the fore and hind legs, and consequently upon the fore and hind feet. The great-est weight of the body is upon the fore est weight of the body is upon the fore legs, hence these occupy a perpendicular position while the hind legs, flexed at the hock, are placed at a decided disadvantage. "Knee sprung" comes of this perpendicular support of body, whatever of elasticity there is being in the shoulder and pastern, while behind there are the angles in the bones and joints above the stifle, corresponding and similar to the ossecus tissue in the fore shoulder with pastern the same and similar to the ossecus tissue in the fore shoulder, with pastern the same; and to this is added that very elastic and springing joint, the rock. So, considering the greater width, leverage power, and sharper angles possessed by the hinder extremities, it is not difficult to explain why the hind legs so often go uninjured through a long and laborious life.

Nature has, because their harder service tended to this end, given the horse wide and strong fore feet, as compared to those behind. Yet, with this pro-vision for safety, the fore feet are con-tinually examined for the purpose of detecting ability for work, or evidences of unsoundness, while the hind feet are passed over with indifference. A leg, or foot, which possesses no reserve power—that is, ability to do more work power—that is, ability to do more work than ordinary prudence dictates should be put upon the animal—is constantly in danger of receiving injury, as, while we may think we are taxing the horse within reason, we may go beyond what his limbs and feet will stand, easily exhausting the reserve power, if there is but little of this. The over-refined leg and imperfectly-formed hoof are devoid of reserve power, hence fail under eyen a medium amount of service. The ina medium amount of service. The increased weight put upon the fore legs, and the severe pounding which comes to the fore feet from this cause, added to the upright position of the leg, is the reason why corns are found in the fore feet, and almost never in the hind feet. Fever in the feet is quite uniformly confined to the fore feet, as well as its natural following, contraction.

A horse is now and then met with whose peculiar formation leads him to An animal so formed wears heavily upon his hind shoes, while the forward shoes are worn but little. When this peculiarity in the wear of the shoes is observed—and this wear is the test—it will be found to be a constant attendant upon the horses action, though hardly This peculiarty is quite regularly accompanied by wide hocks, and the entire formation of the hind legs and hind quarters and loin will be found to be strong, in a marked degree. Not all horses so formed behind save their fore feet and legs in the manner referred to, though nothing is surer than that there

will be no especially strong work, to the extent of saving the fore legs and feet, if the hocks be narrow and the loin be both low and weak. This rare faculty of doing the burden of the work with the hind legs will quite certainly insure long-continued safety to the fore legs and feet, and a horse with this peculiar mode of action will be well calculated to preserve the integrity of his forward extremities and feet on hard pavements.

A Remedy for Kicking Horses.

A Scotch farmer, writing about kicking horses, gives his experience: "If a horse appears to kick in the stable from a mere vicious propensity, the best cure is to tie a truss of straw behind him, suspended from the ceiling by a cord, in order to give it full swing, letting the truss hang in a position where the horse's leg is likely to hit it. After the first night a horse is rarely known to kick again.

"The only precaution to be recommended is to put on a pair of knee caps, as, when struck by the return of the straw, horses are generally so terrified that they spring forward or upwards, and might injure the knees against the manger. This plan, I believe, is well known in Germany; and I have an Irish horse now that could be cured by no other means.

"But at this season of the year, in a stable kept too hot, warm clothing is often a cause of kicking. I had once a mare with an irritable skin in a London stable, always hot during summer nights, and she kicked until her legs were swollen. After trying various other means with no avail. I had her stripped of all clothing both night and day and she never kicked afterwards, although again clothed on the return of winter."

An Important Clover Huller Law Suit

The Newark Machine Company of Columbus. Ohio, have just entered suit in the United States Court against Gaar, Scott & Co., of Richmond, Indiana, for the use of certain patents upon the Clover Huller manufactured by the latter, which the Newark Machine Company claim to be infringements on their patents on the Victor Clover Huller manufactured by them. This is an important suit, for, if it is gained by the Newark Machine Company, they can pursue all clover hullers built by Gaar, Scott & Co., and can collect damages from any one using them.

Cut noxious weeds just as the seeds begin

There are two effectual remedies for drouth—rain storms and cultivation. Providence will attend to the rain if you don't cut too many trees down, but you must run the cultivator.

Liquid manure should not be applied to the foliage of growing plants too strong, but in may be put on the ground, even directly around them, with safety, no matter how strong it may be.

The later-sown cucumbers will produce the most pickles, as the crop is grown after the hottest weather has passed. Planted late, they also grow so rapidly that they evade the ravages of the striped bug.

The quantity of meat thrown into the Atlantic is greater than most people imagine. Last year 4,853 animals were thrown overboard, 281 were landed dead, and 317 were so much injured that they had to be killed on landing.

There can be little doubt that fresh manure may not help crops at all; may, indeed, as Professor Shelton says, injure them the first season, though it may act with great efficiency during the second, third, fourth, or even fifth year.

The Massachusetts State Board of Health, from recent investigations, find that there is very little pure honey in that State. That sold in little glass jars is not honey at all, but simply glucose, with just a little hone; comb in it.

In some places where the clover worm has destroyed this plant for several years, a disease has attacked the enemy, and has increased so rapidly that clover fields are fairly free from it. The disease is a fungus growth on the worms, which rapidly destroys them.

Nervous Debilitated Men

BREEDERS' DIRECTORY.

Oards of three lines or less, will be inserted in the Br. der's Directory for \$10.00 per year, or \$5.00 for six monning cash additional line, \$2.00 per year. A copy of the payer will be sent the advertiser during the continuance of the card.

HORSES.

M. D. COVELL, Wellington, Kas., for fifteen years a breeder and importer of Perchanas. Stud Book and High-grade acclimated animals, all ages and both sexes, for sale.

FOR SALE—On good terms, two Imported City es-dale Stalifons, with books of 1885 included. Both sure breeders. Can see their colts. For particulars address Robert Ritchey, Peabody, Kas.

CATTLE.

A SH GROVE STOCK FARM.-J. F Glick, High-land, Doulphan county, Kansas, breeds first-class THOROUGHBRED SHORT-HORN CATTLE

POLAND-CHINA SWINE. Young stock for sale. Inspection and correspondence nyited.

WALNUT PARK FARM.—F. Playter, Walnut, Kas., breeds the largest herd of Short-horn Cattle in southern Kansus. Stock for sale. Cor. invited

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

OAK WOOD HERD, C. S Eichholtz, Wichita, Ks. Live Stock Auctioneeer and breeder of Thorough-bred Short-horn Cattle, Poland Chinas & Brinze Ti kys.

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

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

T. M. MARCY & SON, Wakarusa, Shawnce county I. Kau. We now have 118 head of recorded Shorthorns. If you wish a young bull or Short-horn cowed to yourself the justice to come and see or write us.

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

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

U. P. BENNETT & SON, Lee's Summit, Mo., breed-cotswold sheep, Berkshire swine, Bronze tarkeys and Plymouth Rock chickens Inspection levited.

POWELL BROS., Lee's Summit (Jackson Co.) Mo., breeders of Short-horn Cattle and pure-bred Po-land-China Swine and Plymouth Rock Fowls. Stock for sale. Mention this paper.

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

J. W LILLARD, Nevada, Mo., Breeder of Thor bead of herd. Young Stock for sale. Satisfaction guaranteed

CATTLE AND SWINE.

COTTONWOOD FARM HERDS,

J. J. Mails, Manhattan, Kansas, Breeder and shipper of Short-Horn Cattle and BERKSHIRE SWINE. Orders promptly filled by ex-The farm is four miles east of Manhattan, north of the Kansas river.

DR. A. M. EIDSON, Reading, Lyon Co., Kas., maker a specialty of the breeding and sale of thorough-bred and high-grade Short-born Catti. Hamblet-nian Horses of the most fashionable strain, pure-bred Jersey Red Hogs and Jersey Cattle.

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

GLENVIEW FARM. G. A. Laude, Humboldt, Kas. breeds Short Corn Cattle and Poland-China Swine. Also Saddle and Harness Horses.

HAVE 10 young pure bred Short horn Bulls, 10 cows and Heifers a few choice Poland-China Boars and Sows—the latter bred for sale. Send for new catalogue H. B. Scott, Sedalia, Mo.

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

WOODSIDE STOCK FARM.—F. M. Neal, Pleasant Bun, Pot-awatomie (o., Kas., breeder of Thor-ough red Short-horn Cattle, Cotswold Sheep, Poland-China and Berkshire Hogs Young stock for sale.

CATALPA GROVE STOCK FARM. J. W. Arnold, Louisville, Kansas, breeds Recorded POLAND-CHINA SWINE AND MERINO SHREP

The swine are of the Give or Take, Perfection, and other fashionable strains. Stock for sale in pairs not related. Invite correspondence or inspection of stock

A. Thoroughbred Poland-China Swine. Stock for sale. Inspection and correspondence invited.

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

M. ROOKS & CO., Burlingame, Ka*, importer and breeders of Recorded Poland China and Large Berkshire Swine. Breeting stock the choices from the best herds in seven States. I have special rates by express Write.

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

ROBERT COOK, Iola, Allen county, Kansas, importer and breeder of Poland-China Hogs, Pigs warranted first-class. Write.

SWINE.

V. B. HOWEY Box 103. Topeka, Kas., breeder and shipper of Thorougibred Poland China Swine, R. c. rded. in Ohio Poland. China Record. My breeders are second to none, Write for what you want.

W.M. PLUMMER Osage City, Kansas, breeder of Recorded Polaud-China Swine, Also Light Brai-ms Checkens. Stock for sale at reasonable rates.

It'. W ARNOLD & CO., Osborne, K. is., breeders of P. Peland-China Swine. Stock recovered in O. P.-C. R. Combination 4989 (first premium at State fair of 1884) at head of herd. Stock for sale. *attsfaction guarantee*.

POLAND-CHINA SWINE — Of the most noted strains. My breeders are from herds that can show more prize-winners than any other in the United States. L.b. rai reduction to persons ordering in next initry days. Photocraph of a few breeders free Address me bafore buying elsewhere. Special rates by express. [Mention this paper.] H.H. Walls, Bedford, Indiana.

SHEEP.

E. T. FROWE, Pavillion, Kas., breeder of Thor-few Shropshire Rams

POULTRY.

400 W.F.B. SPANISH and P. Rock chicks for sale, from my prize-winners. General agent for "Poultry Monthly." Agents wanted Prepared shell, \$300 per 100 lbs. Geo. H. Hughes, North Topeka, Kas.

FAIRVIEW POULTRY YARDS—Has for sale 200 Chicks each of P. Rocks, Houdans, L. Brahmas, Wyandottes, B. Leghorns and Langshans Lock box 754. Mrs Geo Taggart, Parsous, Kas.

N E08HO VALLEY POULTRY YARDS.— Estab-lished, 1870 Pure-bred Light Brakmas, Partridge Cochins, Plymout's Rocks, Egg-in season, Stock in fall, Write or prices. Wm Hammond, box 180, Emporia, Ke.

N. R. NYE, breeder of the leading varieties of Choics Cular, Leavenworth, Kansas. Send for circular,

EGGS FOR SALE—Fr in Light Brahmas, Buff Cochins and Flymouth Rocks, 13 for \$1.75; 26 for \$3. Also Pekin Duck eggs, 11 for \$1.75; 22 for \$3. Also Emden Geese eggs 6 for \$7 and Gronze Turkey eggs, 12 for \$3. W. J. McCoin, Waveland, Shawnee Co., Kas.

PLYMOUTH ROUK CHICKENS. Eggs for hatching, from the finest breeding pens in the United States. Fowls have taken first premium wherever shown Eggs safely packed for shipment. Setting of 15, \$2.50. Fowls for sale in the fail. Address E. W. Stevens, Sedalia, Missouri.

MISCELLANEOUS

PROSPECT FARM.-H W. McAfee, Topeka, Ras. For sale cheap six registered Scort-horn onlis, 1 to 2 years old. Also, Cl. desdale horses.

OSWEGO TILE FACTORY.—H C. Draper, Prop'r., oswego, Kus. Best shipping facilities over Missuri Pacific and Fri-co railroads.

C. A. SAWYER, Manhattan, Kas., Live Stock Auc., tioneer. Sales made in all the States and Canada, Good reference. Have full sets of Herd Books. Compiles catalogues.

REPUBLICAN VALLEY STOCK FARM.—Henry Avery, Wakefield, Clay Co., Kas., breeder of Percheron horses. Stock for sale. Send for catalogue,

M ERINO SHEEP, Berkshire hogs and fifteen varie-ties of higi-lass poultry of the hest strains. Bucks a specialty Harry McCullough, Fayette, Mo.

Goodwin Park Stock Farm, BELOIT, : : : KANSAS.

ABERDEEN-ANGUS CATTLE!

A few tip top YOUNG BULLS, at low figures and on easy terms. We offer a few CHOLE FEMALES from our show herd for sale for the first time.

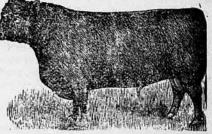
Two well bred SHORT HOEN COWS at bar, ain. Two standard-bred

HAMBLETONIAN STALLIONS.

at bed-rock flaures. There are few better-bred Trot-ters in Kausas. GRADE ANGUS and GALLOWAY cows at farmers' prices. s' prices.
Send for Catalogue.

J. S. & W. GOODWIN, JR.

F. MCHARDY



Breeder and Importer of

GALLOWAY CATTLE,

Emporia, : : : Kansas.

My her introduces over one hundred heat, consisting of the best and purestors into of bloot. It is composed of animals bred by the most neted the deri of Scotland—the buke of Succleuch, the Earl of Galloway, Thos. Bige, r & Sons, Cunningham. Graham, and others. I have thirt head of young buils, if for service, sired by the noted buil MacLeod of Drumlanrig; also thirty high grade females of different ages that I will sell reasonably. Time given to suit purchaser, if desired,

Correspondence.

From Ellsworth County.

Kansas Farmer:

So far as wheat is threshed in the east end of this county and the west end of Saline and McPherson counties it is poor, will yield from five to ten bushels to the acre, and the large majority will have no grade. Oats are not yielding over thirty bushels to to the acre. The weather is hot and dry; much of the ground is ready for fall sowing of wheat. Pastures are drying up. Stock is healthy, except hogs, some of which are dying from a disease resembling cholera. Corn is splendid, and as fine a crop in quantity and quality as has ever been raised in the county, much of which is now being W. S. GILE. put in shock.

Venango, Ellsworth Co., August 25.

Shocking Corn.

Kansas Farmer:

Your paper is just what every farmer in Kansas needs; for no matter what information we need, we have only to look through the back numbers and it is generally there, and if not we can get it for the asking.

But you got off the track last week over that cornfodder. You advise to put it up in shocks from seven to ten hills square. I have some objections to that. First, a small shock won't stand wear as well as a large one; second, too much of it gets weather beaten; third, it is as much trouble to get a small shock out of the snow as it is a large

I have tried 10, 12, 14 and 16 rows. It is a little more trouble to put up 16, but when you get it there, and get it securely tied, there is a day's feed for five cows; and if that 253 hills was put up in five shocks there would be so much spoiled that it would not feed more than three or four, besides being more disagreeable to haul in wet or snowy

With respect to the condition of the corn when cut, it depends upon what you what it for; if you want to sell the corn, you want it to get pretty ripe and put up a little extra, as the fodder is not so good; but if the corn is wanted for feeding cattle then cut it pretty green, and it makes a feed that Is A. W. PARSONS. hard to beat.

Meriden, Jefferson county.

Time to Sow Wheat.

Kansas Farmer:

When shall we sow our wheat is a ques tion that will come up very often this fall. The experience of wheat raisers here is so varied that we hardly know what to do. wheat, and the opinion then was that we were sowing too late; since then we have been sowing from the 10th to 25th of September. This year all early sown wheat was poor; half of it was plowed up, while the late sown is yielding from twelve to twenty-five bushels to the acre. One of my neighbors put in some wheat on ground that that the work of controlling contagious and had been tilled fourteen years and was in oats last year; it was early plowed, and had so much green oats on the ground that he the present board will prove themselves could hardly drill it with a press drill; sown October 1, and where the most oats was the wheat was the best, and the whole piece averaged fourteen bushels. Another piece near by, sown late in rye and oats ground, was as heavy again on the latter, and eighty acres that was put in on breaking so late that it hardly came up in the fall turned out at harv st to be the best wheat in the township. Now this fall most of the wheat will be sown late, whether it is best or not. All wheat sown in cornfields made an average crop, but generally it is a failure one-half of the time. Even rye has failed once or twice sown in cornfields in the last twelve Although wheat has done so well on oats ground, four years ago it was a failure.

The usual amount will be sown this fall in this county, and a great deal of it will be put in with a press drill. We have no difficu'ty in using it with two common horses.

The more experience I have with wheat, the less I seem to know; for what proves a success one year, the same way of putting it in makes a failure the next. I have really only settled one thing, and that is, July and the first of August is the time to plow for winter or spring wheat. E. W. Brown. Vining, Clay Co.

Republican Valley Fair.

Kansas Farmer:

The fair held at Concordia last week is regarded a success by the managers of the association, the greatest attractions ever known in the speed ring at this place. In fact the main object and force of the whole fair seemed to be directed to the attraction of the speed ring especially, to make the i sitial meeting of the Kansas Pacific Circuit a success. I think they succeed in this particular in presenting unusual attractions for a county fair; yet it was at the expense of all the other departments which go to make a successful fair and to encourage industries which are the source of wealth and prosperity of our State. The exhibits of live stock, poultry, dairy and farm products was not up to the displays of former years. It was quite evident that the association lacked the co-operation of farmers and breeders. The Goodwin Park Stock Farm, of Beloit, furnished the principle attraction in the live stock department. A representative herd of Aberdeen-Angus cattle from this herd, in charge of J. S. Goodwin, attracted favorable comment from all. The herd was given over one-half the premiums for beef September 10. breeds not to compete. The few hogs on exhibition were indeed excellent animals. The model pair of Chester White pigs shown by M. V. Shaffer, constituted the chief attraction and novelty of the swine department. The draft stallions with seven of their colts was a useful and creditable showing for the horse department.

The display of farm machinery was the best ever made at this place. L. A. Bartlett, an enterpriting dealer at Concordia, certainly deserves credit for the extensive exhibit

of farm machinery so effectively shown. The association would have had the best fair ever held in the Republican Valley, had the same effort with one-half the amount of premiums been offered to all the other departments combined, that was offered in the speed ring.

Concordia, August 29, 1885.

Illinois Stock Law.

Kansas Farmer:

The new law in Illinois relating to contagious diseases among domestic animals makes it the duty of the Board of Live Stock Commissioners to quarantine premises or farms where any such diseases exist. It is also their duty to prescribe regulations necessary to prevent such diseases from being communicated in any way from the premises or farm quarantined.

At the meeting of the board in Springfield this week the Commissioners have been wrestling with the problem, "What is efficient quarantine?" The fixing of rules or Years ago we had a light crop of winter regulations necessary to prevent the spread of disease has also engaged much of their

The framers of the present law doubtless felt that they had accomplished a grand work when their carefully prepared bill became, finally, the law of the State. But it is very evident the Commissioners feel infectious diseases among domestic animals is only begun. It is not the less evident that equal to the task given them. The members are awake to the responsibility resting upon them, and they are concious of the fact that there is a new line of work, one in which at least little has heretofore been done in other States.

No event of greater promise for good to the live stock interest in Central Illinois has occurred in many years than the recent importation of Cleveland bay horses made by Strickler Bros., of Springfield. The six stallions brought over show wonderful unitormity in build, style and action, and convince at first sight all who see them that the Cleveland Bay is a well established and PHIL THRIFTON. superior breed. Springfield, Ills.

Topeka Stock Yards Sales.

The representative sales of live stock at the Topeka stock yards for the week ending Saturday, August 29: The sales have not been very satisfactory to many who expect the top market prices for inferior animals. "Scrubs" and stock in poor condition find scarcely any demand at any price. 12 fat fat sheep, averaging 93 lbs., \$2.77; 11 fresh ecows with calves sold from \$30 to \$35; 9 fat weed hoisted out."

steers, 710 lbs. average, sold for \$2.75; 65 fat cows with the extreme weights of from 705 to 1310 pounds, so.d at prices averaging from \$2.50 to \$3.20,

Gossip About Stock.

The receipts of live stock at the Kansas City Stock Yards were 482 horses and mules, 2,872 sheep, 13,409 cattle and 38,665 hogs.

At the State Agricultural College at Manhattan may be seen the skeleton of Lord Liverpool, the noted Berkshire boar owned by N. H. Gentry, Sedalia, Mo., former one of the attractions of the college museum.

For the month of July there were twenty head of cattle on the eastern division of the Santa Fe railroad killed by being run over. For these cattle the railroad paid \$752, and informed their engineers that more diligence must be exercised to prevent the killing of

Parties desiring choice Chester White pigs should correspond with W. W. Waltmire, Carbondale, Kansas. His card may be found in this issue. He desires that all breeders of Chester White swine meet with the State association at the Bismarck fair,

W. P. Higinbotham, Manhattan, writes: "Our fair just closed was quite a success. During the week 1 sold some fine handsome young horses. One a three-year old by Winchip, by Robert McGregor, for \$500, to Col. H. H. Stanton of the Union Pacific hotel, North Topeka, Kansas."

Kinsley Mercury: The hog crop in Edwards county is large this year, and there is an abundance of corn raised to fatten them. This county will send several car loads of fat hogs to market, and will also supply the home demand. The hog crop, since it is demonstrated that Edwards county is a firstclass corn growing county, will hereafter be a great source of revenue.

Now is the time to secure the best Berkshire swine. A. W. Rollins, Manhattan, Kansas, has a very interesting advertisement in this issue. It will pay you to call and see his establishment. As cheap as pure bred swine can be secured now, there is no reason why any one should longer raise runts or razor-backed hogs. Mr. Rollins will offer special bargains for the next few days. Here is an opportunity to get some of the best.

It is pleasing to note that at the opening of the fair season that the reputation of Kansas fine stock is being improved in a marked degree. The few show herds out this season are a credit to this or any State. The enterprising breeders have inaugurated an aggressive campaign against the "scrub." The Blue Valley Herd of Short-horns of W. P. Higinbotham and the Holstein-Friesians of J. K. Wright and G. W. Harrop added fresh laurels to the beef and dairy industries at the Manhattan fair last week. The Aberdeen-Angus shown by J. S. Goodwin, of Beloit, scored a victory for the beef breeds at Concordia last week.

Inquiries Answered.

MILDEW ON GRAPES.-Sulphur dusted on the vines where they are wet with dew or rain, is good to prevent mildew on grape-vines.

Can I successfully graft or bud Concord grapes on to a wild grape vine?

-Yes the writer of this performed that interesting experiment once, and only once.

Ensilage.-Ensilage is green forage preserved in a pit called a silo. The silo is usually made under ground, as nearly air-tight as possible and is securely covered and weighted down.

IRON WEED .- As to the best way of destroying this weed, we see it stated in the Oskaloosa Independent "that if the weed be cut off two inches below the surface with sition of the West this year. More and betaround the collar, and if they be cut off the the fair. See add this week. weed is bound to die out. The growing season is as good as any in which to do the work. Capt. Insley of this place has an implement to destroy plantain which would be a useful weapon against other weeds. It is simply a slightly curved blade of iron about two inches wide, inserted in the end of a heavy pole, something larger hogs, averaging 270 lbs., sold at \$3.75; 100 than a hoe handle, and it is plunged for-

"O, Lor' Hit 'Im Again!"

In the early days of Methodism in Scotland, a certain congregation, where there was but one rich man, desired to build a new chapel. A church meeting was held. The old rich Scotchman rose and said: "Br-thren, we dinna need a new chapel: I'll give £5 for repairs."

Just then a bit of plaster falling from the ceiling hit him on the head.

Looking up and seeing how bad it was, he said: "Brethren, its worse thon I thought; I'll make it 50 pun'."

"Oh, Lord," exclaimed a devoted brother on a back seat, "hit 'im again!"

There are many human tabernacles which are in sore need of radical building over, but we putter and fuss and repair in spots without satisfactory results. It is only when we are personally alarmed at the real danger that we act independently, and do the right thing. Then it is that we most keenly regret because we did not sooner use our judgment, follow the advice born of the experience of others and jump away from our perils.

Thousands of persons who will read this paragraph are in abject misery to day when they might be in a satisfactory condition. They are weak, lifeless, full of odd aches and pains, and every year they know they are getting worse, even though the best doctors are patching them in spots. The origin of these aches and pains is the kidneys and liver, and if they would build these all over new with Warner's safe cure as millions have done, and cease investing their money in miserably unsuccessful patchwork, they would be well and happy and would bless the day when the Lord "hit 'em" and indicated the common sense course for them to pursue.-London Press.

A Remedy for Cattle Diseases.

A representative of this paper had a little talk with that veterenarian of Northwestern Kansas, Dr. M. V. Price, during the fair at Concordia last week, concerning his great specific bovine vaccine virus, which he discovered over three years ago and has been using with marked success against the various dreaded cattle diseases, including blackleg. He has abundant testimonials from prominent men in Cloud, Republic and Jewell counties, to whom he refers with pride. Dr. Price makes a specialty of cattle diseases, and guarantees that all cattle vaccinated with this method are proof against this terrible malady so destructive to the interests of stock men. During the last three years he has been called to vaccinate many herds, and claims to save those already infected and prevent the further spread of any inf ctious and epidemic diseases incident to cattle. For full informa-tion, address, Dr. M. V. Price, V. S., Concordia, Kausas.

One Cent Per Mile Only.

Only one cent per mile to the Great Bismarck Fair over the Union Pacific railway.

The Sunflower Fair.

Kansas is the Sunflower State, and the Great Western National Fair at Bismarck from September 7 to 12, is the sunflower fair, larger, brighter and more radiant than any

One Fare for the Round Trip.

It will cost you only one fare for the round trip to attend the Great Western National Fair at Bismatck Grove, Lawrence, Kansas, September 7 to 12, over the A., T. & S. F. and Southern Kansas railroads.

The Kansas City Inter-State Fair, September 14 to 19, promises to be the great expoa sharp hoe or spade, or other implement, ter attractions in the speed ring, live stock, it will die. The plant is similar to the horticultural, agricultural, mechanical and dahlia, with the buds of the new growth in all the departments. Be sure to attend

Absolutely Magnificent.

The mammoth live stock display, the great agricultural and horticultural exhibits, the largest agricultural implement show, the fastest, biggest and most exciting races all combine to make the Western National Fair at Bismarck Grove, September 7 to 12, absolutely the most magnificent exposition ever seen in the West.

When to Sow Wheat Seed.

We have an interesting letter this week from E. W. Brown on the subject above named. Mr. Brown is an experienced farmer, a very intelligent man, one that is trying to keep fully even says that with his greater experience in wheat-raising his knowledge is or seems to be less, he states a general truth, though not very precisely. He does less he knows, for that cannot be true; but what he really means, as we underclearly he sees that there is a great deal knowledge has descended to us? that what we have done and what we that outside of exact sciences, while we are learning a great deal, the truth is always use wisely.

one. He shows that while early sowing of wheat, that is in September, has been better in results, generally, yet late sowing has been better occasionally, as was the case last year, and hence there is no certainty about it. Now, let us ask, has not that been the experience of farmers in this country generally of this can go back fifty years, and sowing wheat was from the 10th to the 20th of September, and after frost. Some began as early as the 5th and some firished about the 25th. Occasionally a case of late sowing was reported, but it was not usually a fruitful work. It happened, however, that wheat did not yield an average product always, though sowed at the usual time, and it happened about as frequently that late sowing did well. In general, the regular procedure was followed, and in general-say four years in five, there was no complaint; and as between the regular and the irregular method, the former succeeded nine years in ten. W., Washington, D. C., of whom infor-And the experience of farmers in mation may be had: Kansas, in this respect, has been similar to that of the Pennsylvanians. With us, as Mr. Brown shows, the earlier and regular time of seeding has been generally better in results. Col. Caleb May, a pioneer farmer of Kansas and one of the most successful wheatgrowers in the State, always got his. wheat seed in between the 10th and 25th days of September, if possible, and it Scott, baking powder. was possible nearly every year. He raised wheat in northern Kansas and in southern Kansas; his rule was the same in both regions, and his success was almost uniformly good. We have observed this matter very closely, and almost invariably the largest crops of wheat grew from seed sown in the first half of September. We have seen good wheat from August sowing; so also, of October, and even November, and in one instance in January, when the seed did not sprout until spring; but generally the good crops come from seed sown in the regular time.

While this does not prove everything that a farmer would like to know, and while it does not prove anything that may be certainly and safely relied upon as to future operations, does it not prove something? We all know that in past time, within our experience, at least, the seasons have come and gone. four of them every year, and with a remember, we are willing to say that cents.

generally a certain rule has been followed. Generally speaking, in Kansas, when the first day of April is with us e ground and temperature are about ready for the planting of corn; but it is not always that way. Generally speaking, prairie grass is well advanced on with the times. His opinions are the first day of May, but not always so. entitled to much respect. When he Take any single fact common to the years and it is found that in general a particular course is followed.

We have no way of judging the future but by the past. All past years were not mean that the more he learns the once future years. Is it not better, then, to act on our experience and observation of things that have taken stand him, is, that the greater his place within the reach of our memories experience and knowledge, the more and the memories of other men whose yet to be learned; or, in other words, experience has been that generally it is more profitable to sow wheat at a cerare doing is largely experimental, and tain time, is it not wise in us to follow the established rule as to the future? Such is the conclusion of the writer of that we know very little that we can this article. The exceptions to general rules are sufficiently numerous to shake We desire to call particular attention all faith out of us as to certain results to this fact, not to criticise, but that all in time to come. We are all in the of us may profit by the thought. The dark absolutely as to the future, so that point raised by Mr. Brown is a good when doing our best we are blind, totally blind, and can take courage only from our faith in the stability of the universe of God.

It is better, then, as the matter appears to us, that farmers should sow their seed regularly at that time of year when, as experience has shown, we may reasonably expect the best ever since the beginning? The writer return, and so mix and vary our methods as that we shall not in any year be he remembers that among the best compelled to rely wholly on any one farmers of Pennsylvania the rule as to crop. Let the ground be in the best possible condition and the seed put in well about the 10th day of September, and in four years out of five, we will not be disappointed as to time. If the growth 1s too rank in November, pasture it down in dry weather.

Late Patents to Kansas People.

List of patents granted to citizens of Kansas for the week ending Tuesday, August 25, 1885, compiled from the official records of the United States Patent office, expressly for the Kansas FARMER, by Herring & Redmond, solicitors of patents, No. 637 F street N.

No. 325,200-J. H. Dymond, assignor to himself and W. W. Dymond, Carbon-

dale, car coupling. No. 325,169-F. H. Harman, Holton,

insecticide wash.
No. 324,870—E. A. and M. C. Miks,
Halstead stock-watering device.
No. 325,140—R. F. Wilcox, Augusta,

TRADE MARKS.

No. 12535-A. Richards & Co., Fort

Attention is called to the card of Dr. D. L. Snediker, Emporia, who advertises to cure rupture. He has certainly met with great success. He is well known at this office and requested the KANSAS FARMER to announce that he will be at the Bismarck fair, also at the re-union. Consulta-

Kansas has but one great fair this year. We refer, of course, to the grand exposition Swar. at Bismarck.

ansas will contribute to the wonder. ful collection of agricultural products at the Bismarck fair.

will exceed anything of the kind ever before the association purpose erecting new and known in Kansas.

All previous exhibitions exce'led and all other fairs placed in the shade by the Bismarck fair-September 7 to 12.

The most valuable and interesting regularity not absolute, but such as that farm and family journal published in with reference to the years which we the West the remainder of 1885 for 25

Horticulture in Butler County.

In the last issue of the El Dorado Republican we find a report of a horticultural meeting at Whitewater, in Butler county, from which we gather some interesting points.

As to leaf curl in peaches, Mr. W. H. Litson said that early in the season the prospect for peaches was good; the blossoms were abundant, the trees healthy, but later on a number of his early varieties exhibited signs of decay. The leaf curl and other causes had made the crop very unsatisfactory.

A. J. Owen said he had 650 peach trees from two to seven years old, of budded fruit. The Amsden, Alexander, Heaths Early and Early Rivers were all more or less affected and produced unsatisfactorily and he had almost come to the conclusion that raising peaches for profit was a failure in Kansas. He had cultivated the trees and left them alone and still the results were far from good. A considerable per cent. of his trees had died, the roots decaying before the tops. Hard freezing the possible

Mr. Fenton said a number of his trees dred; thought they had frozen during the winter; did not think his trees overpreduced last year; had concluded that to get good results the trees should be thoroughly cultivated and mulched; was of the opinion that peaches would not prove a very great

Charles Mordhinweg said the borers had affected his trees. He had a thrifty orchard but borers went all the way round, killing a number of his best trees.

Dr. Snyder suggested that the insect which produced the leaf curl caused the leaves and first foliage to fall, but his trees leaved out again. Even the cottonwoods were defoliated this year.

Mr. Robinson said the leaf curl is new to this country. They had had it further east for a number of years. It was caused by a small fly laying an egg or eggs under the leaf. Because this had proven a misfortune this year was no reason why we should have it next. He had noticed the box elders attacked with the leaf curl. Overbearing injured some peach trees, the borer others, while the leaf roll killed others. In reality we ought to congratulate ourselves that we got through so well. One-half of all the trees in Hancock county, Illinois, were dead. Thought we were in our infancy in connection with the growing of fruit and would in time overcome all obstacles. He said the Early Barnard was a peach of great promise; a good honest, steady bearer, and one that should be more largely grown.

Mr. Fenton wanted to know the effect of planting peach and apple trees alternately. Dr. Snyder said the practice was condemned; better have the trees separate. Alternating trees had proven to be bad policy; the peach robbed the soil of its vitality.

Mr. Litson called attention to the resolution recently passed by the State Horticultural Society which he thought should be endorsed and given publicity by the Butler county organization. The resolution was read and universally adopted as follows:

Resolved, That it is of the opinion of the Kausas State Horticultural Society that none of the Russian apples are worthy of cultivation except the Dutchess of Oldenberg, Red Astrachan, and Tetofski. and that these should only be planted sparingly for family use, these varieties being easily obtained at our home nurseries.

Mr. Owen recommends the Early Harvest fo summer, Autumn Swar and Penna Red Streak for fall; Ben Davis and Wine Sap for winter. Specimens of the Swar exhibited which Mr. Robinson pronounced the Winter

Anderson County Fair.

Special correspondence Kansas Farmer.

The Anderson County Fair Association has just closed its thirteenth annual fair, and from all indications manifested, it has The display of stock at the Bismarck fair been one of marked success, so much so that additional buildings ere another season rolls around.

The exhibits were all good and deserve high commendations. Those who have, and do not make an exhibit, can never reali e the value of efforts put forth by others to advance the interests of the county in which they live; neither can they appreciate the good that may accrue therefrom. Johnson Bros., of Garnett, exhibited thirty-five head of horses, including mares and colts, and were successful in securing twenty premiums. "Hercules," a well developed, jetblack, 1800-pound horse, took first premium on sweepstakes for all work; "Billiard" took first on draught, also, first on horse showing best five sucking colts; and "Passe Avant" took first on three-years-old, being a dark brown horse with heavy mane and tall. All of the above are Percheron-Norman stock and that, too, of the choicest, and Johnson Bros., being a new firm, our desire is that success may crown their efforts.

Walter Latimer, formerly of the firm of J. S. Latimer & Sons, of Abingdon, Ills., has a herd of forty head of thoroughbred Short-horns, fourteen of which he exhibited at this fair.

J. A. Davidson, of Richmond, Kas., has seventeen head of Poland-China swine on exhibition, and received the following premiums: First on boar "White Ear," year and under two; second on boar six months and under one year; first on sow two years and over; first on sow "Broad Back," one year and under two; first on litter of pigs. Sow, "Black Daisy," took first on sweepstakes; all are of pedigree stock O. P. C. R. Mr. D. was also awarded first premium on best herd or lot of swine.

J. R. Killough, of Richmond, Kas., exhibited five head of swine, receiving second premium on boar, "Dandy," one year and over; first on boar six months and under; and first on sow six months and under. All his stock are pedigree O. P. C. R.

HORACE.

August 29, 1885.

N. W. Ayer & Son's American Newspaper Annual for 1885 contains a carefully prepared list of all newspapers and periodicals in the United States and Canada, arranged by States in geographical sections, and by towns in alphabetical order. (Pages 19 to 38%). In this list also is given the name of the paper, the issue, general characteristics, year of establishment, size, circulation, and advertising rates for ten lines one month. Also complete lists of all the religious or agricultural periodicals, of medical, commercial, scientific, educational, or any other of the class publications, as well as all publications printed in foreign languages, can be obtained from it. (Papes 707 to 746). It will show you at a glance all the newspapers published in any one county in the United States and Canada. (Pages 389 to 702). Price, \$3, carriage paid. Philadelphia, Pa.

The Iowa State Veterinarian has been ordered by Governor Sherman to visit Pottawatomie and Harrison counties for the purpose of examining into the death of a large number of catale from Texas fever. Several large herds were shipped to these counties some weeks ago, represented to be Kansas cattle, and the native cattle which came in contact with them have now began to die with every symptom of Spanish fever; and the native cattle along the trail where the strangers were driven are also stricken, showing apparently that the strangers were Texans.

Are you interested in keeping abreast of the times in the essential matters pertaining to the farm. Then try this paper the balance of the year for 25

BUNKER & COCHRAN. IVE STOCK COMMISSION

WOMAN WANTED SAS LARSE changed. GAY & CO., 14 Barciay St., N.Y.

IT WILL BE AN ADVANTAGE to always mention the KARSAS PARMER when writing to advertisers.

The Bome Circle.

The Bottom Drawer.

In the best chamber of the house,
Shut up in dim uncertain light,
There stood an antique chest of drawers,
Of foreign wood, with brasses bright.
One morn a woman, frail and gray,
Stepp d totteringly across the floor;
"Let in," she said, "the light of day;
Then, Jean, unlock the bottom drawer."

The girl, in all youth's loveliness,
Knelt down with eager, curious face;
Perchance she dreamt of Indian silks,
Of jewels, and of rare old lace;
But when the Summer's sunshine fell
Upon the treasures hoarded there,
The tears rushed to her tender eyes,—
Hor heart was solemn as a prayer. Her heart was solemn as a prayer.

"Dear grandmamma!" she softly sighed,
Lifting a withered rose and palm;
But on the elder face was naught
But sweet content and peaceful calm.
Leaning upon her staff, she gazed
Upon a baby's half-worn shoe,
A little frock of finest lawn
A hat with tiny bows of blue.

A ball made fifty years ago,
A little glove, a tasselled cap,
A half dene it ng-division sum,
Some school books fastened with a strap.
She bushed them all with trembling lips;
"How much," said she, "the heart can

bear!
Ah, Jean, I thought that I should die
The day that first I laid them there.

The day that first I laid them "But now it seems so good to know That throughout all these weary years Their hearts have been untouched by grief, Their eyes have been unstained by tears! Dear Jean, we see with clearer sight When earthly love is almost o'er; Those children wait me in the skies For whom I locked that sacred drawer."

Exchange.

Eternity, Eternity!
How long art thou Eternity!
Yet onward still to thee we speed
As to the fight the impatient steed,
As ships to port, or shaft from bow,
Or swift as couriers homeward go;
Mark well. O man, Eternity!
Eternity, Eternity?

Life is a weary interlude,
Which doth short joys, long woes include;
The world the stage, the prologue tears,
The act vain hopes and varied fears;
The scene shuts up with loss of breath,
And leaves no epilogue but death.
—Bishop Henry King.

Has Time to Read.

Claribel says that she thinks it is Bramblebush who said that she did see why women could not get time to read, all of which is true, and Bramblebush is quite ready to re

In reply I will say that my family generally consists of five, three of whom are children, the youngest not quite two years of age. That during the last year I have done all the cooking, washing and ironing, all of my sewing by hand, and mending, contributing to three papers, and done the churning, besides having company and three extra men to cook for during the having

Now, I do not tell this because I think that I am smart-as I do not think so-but merely to show Claribel that when I wrote those words I knew what I was talking

There are many times when we can read. Have a paper or book ready, and when you are getting baby to sleep read a little, and there are many other odd minutes when we can read. Of course if there is much sickness in the family it is different; but when you are all well, I repeat, that a woman can and should find time to read.

BRAMBLEBUSH.

A Spanish Cigar Factory.

A Spanish Cigar Factory.

A recent letter from Seville describes the government cigar factory of Spain, 700 feet long and almost as wide, very dirty and in the vestibule 250 young girls making cigarettes, all talking as loud as they want to; 100 girls in the next room doing the same, and on the next floor 3000 women as close as sardiness in a box, in a single room, making cigars, some having their babies with them not a month old, and dogs lying on the tobacco stems. The women were divided up into sevens at each table, three on each side and the mistress at the top. Around each table were shelves against stone pillars, on which lay children's shoes, socks and clothes. There were stone jars of water here and there for drinking, and the air was stifling, and the buzz of conversation only broken by the wail of the babies. The flooring was dilapidated and it was possible for an incautious visitor to fall through. Two other side appartments 100 feet long were both packed with laborers. The factory consumes 10,000 pounds of tobacco a day, and employs over 5,000 persons, who receive fifty cents a day for twelve hours' work.

Health Hints.

"Blessings on the man who invented sleep,' says Sancho Panza, but what shall we invoke upon him who "invented" insomnia? Happy indeed those who have never retired to rest, expecting refreshing, healthful slumber, only to find themselves in that condition aptly expressed by the phrase "as wide awake as an owi!" Medical works recognize sleeplessness as a disease, and prescribe for it accordingly. When medicines attack the cause, and cure by removing it, they are invaluable; but when relief is given by the use of soporifies, as chiloral, morphia and the like, the sleep is not nail. And hence not fully restorative, will every time we resort to such means the system is more pronounced, much from insomistic and the effect up the system is more pronounced, much from insomistic and the system is more pronounced, much from insomistic and the system is more pronounced in the system is more pronounced, much from insomistic and the system is more pronounced in the syst

of five pounds each, and these were put into crates, through which the air circulates freely. The car was also open at each end, the ends being protected with wire gauze.

Mad Stones.

HARMOOTOWN, MISS.—Some time ago I saw in an issue of your paper, an article from some one wishing to know if there was such a thing as a mad-stone; and if so, did it possess the virtues ascribed to it. Mr. Ben Milam, now of Waterford, Miss., and once a citizen of this immediate neighborhood, has one of these stones, which, I was told by one of these stones, which, I was told by one of the family, had been applied to the human subject bitten by rabid animals more than 1,200 times, with but a single failure—the patient refusing to have it applied as thoroughly as it should have been. Three instances have come immediately under my observation when relief from the poisonous effects of rabies was obtained. This was many years ago, and all are free from that terrible disorder and have no fears whatever of future trouble. Two of these cases were relatives of mine—a sister and a nephew—one of whom was severely bitten by a dog known to be rabid, for every animal bitten by him went mad and died. I have examined this stone of Mr. Milam; it is about the size of a small guinea egg—very porbus, and resembling bone, somewhat, externally. Years ago it was broken into many pieces, but, being considered a "jewel of high price," Mr. Milam had it securely put together with silver bands. Patients came from "far and wide" to have it applied. It is applied to the wound, where it adheres firmly until it fills itself with the fluid it extracts, when it falls off. It is then placed in a basin of warm water, and in a short time cleanses itself, disgorging a greenish-looking fluid. This operation is continued so long as it will adhere, when the patient is insured safety. I know that many, and especially the medical fraternity, think these stones are humbugs, and I confess I was once of that opinion, but facts and convincing evidence of the virtues of this stone have led me and hundreds of others to have implicit confidence in its ability to prevent hydrophobia.

As I am writing this communication for the benefit of an inquirer, I will add by way of postscrift. such a thing as a mad-stone; and if so, did it possess the virtues ascribed to it. Mr. Ben

in its ability to prevent hydrophobia.

As I am writing this communication for the benefit of an inquirer, I will add by way of postscript, for the benefit of another, that if he will place a branch of either sweet gum or sumach under the headstall of the bridle, the ear or May fly will vanish almost instantly and trouble his animal no more. This knowledge will, perhaps, be of especial service to those farmers living in or adjacent to large swamps, where these flies are hatched by millions, and cause much suffering among stock.—D. C. M. Campbell, M. D., in Louisville Courter-Journal.

Mad Dogs and Madstones.

"I have handled thousands of dogs and been bitten hundreds of times," said Wm. R. Bowers, Assistant Superintendent of the City Pound and Shelter, "and I have never see n but two animals that were afflicted with genuine hydrophobia. Dogs are subject to fits, and these are mistaken by the ignorant for rabies."

So far this season, despite the excessive heat, no mad dog cases have been reported by the police. Several dogs that had fits have been killed, but none of the slaughtered brutes had rables.

have been killed, but none of the slaughtered brutes had rabies.

"There is no cure for hydrophobia, either in dog or man," a leading physician, who has made hydrophobia an especial study, said yesterday. "The phenomena of rabies are peculiar and directly the opposite of the popular idea. A hydrophobic dog never froths at the mouth. The disease is a species of pneumonic insanity, and is caused by and too violent exercise. The dog loses his mind, and has an uncontrollable desire to run at full speed in circles. The glands of the throat become inflamed and swollen, so that deglutition is impossible. The animal is consumed with thirt, but his swollen throat makes it impossible for him to satisfy his cravings. As the disease progresses his eyes become glassy, his tongue distends and turns dark blue in color, his lips crack and he finally dies in violent convulsions. The so-called madsone cures that are so often reported are fallacious. There is no efficacy in stones of any sort when applied to the bite of a rabi l dog."

Although 50,000 houseless and starving does are annually taken to the London

of Thuja occidentalis, and dilute it with one-fourth its bulk of water. Apply night and morning; and if very bad saturate a bit of cotton and bind it over the joint before retiring. It will relieve the soreness and effect a cure, unless the bunion is constantly aggravated by a tight shoe. The same remedy will alleviate the misery of corns, but will not always cure them. It is almost invariably a cure for bunions, however.

My favorite remedy for cold and sore throat is the homely one known to my grandmother, red pepper tea. Not the cayenne pepper of commerce, which is principally brick dust and Venetian red, but the red garden peppers raised for pickles. Make the tea strong, very strong, very hot and very sweet; take half or two-thirds of a coffee cupful before retiring and wake up pretty nearly well next morning. Be a little careful about taking cold again.—Beatrix, in Michigan Farmer.

The first car load of cherries ever shipped from San Francisco to an Eastern market was despatched on the 20th of June. The fruit came from Alameda county. Eight tons of cherries were put up in small baskets

Household Economy .-- Visiting.

Household Economy.--Visiting.

To begin with, we lay it down as a principle, that visiting is natural, real, and a duty so intimately interwoven in the mental constitution that it cannot be ignored with impunity. Sociability, or visiting is only the occasion which draws mankind into families, societies and nations. It may be noticed that where the least sociability exists, the least friendship and good will prevails, and the lowest grades of barb rism is widely prevalent. This visiting for social enjoyment and natural improvent, is one of the grand features of the Grange, of incalculable value to the young, and the continued prosperity of our country. But what is a great curiosity, is that people congregated in cities are contigious to one another and passing each other on the street almost daily, are the least acquainted; are indeed strangers to all intents and purposes, while in a sparsely settled country people know each other, and visit each other for miles around. True, the city produces different sets who sometimes meet together socially, but one set knows nothing and cares nothing for other sets. Each are intent upon their own business, and instead of making visits and enjoying social chats and considering the condition of the people all about them, they dress in the latest style from the Paris bulletins of fashion, and proceed to show themselves for five minutes to those of their set, expecting to be envied and looked up to as examples of the best specimens of the city. Visiting among the tad-poles of society in cities has dwindled to the cold and heartless formality of a five minutes call, and being loaded with the bill of envy, they let loose a talking tongue at every house to excite doubt and distrust, or attempt to make an open rupture beween those who should be fast friends. Time is worse than wasted in this way—the seeds of evil are adroitly sown in rich soil, and a crop of sins are produced who he or she thinks satisfies the cravings of revenge.

and a crop of sins are produced who he or she thinks satisfies the cravings of revenge.

This bad condition of society in cities is one of the prominent causes of many of the evils that flourish there, and we believe is the means of drawing thousands into evil practices, followed by lamentable results. Every large city is full of the needy poor who are absolutely driven to beg, or steal, or starve, and society is so constituted that their sufferings and temptations are scarcely noticed. This class must continue to increase; a nuisance which society takes very little pains to abate; but do so act as to increase the sad condition. Now, if the people of the city would condescend to know each other, and visit each other for purposes of self-improvement, and the serious consideration of what would best advance the interests of the poor, the suffering and the vile, much that now crushes and starves, drives into crimes, would be removed, and five hundred per cent added to the health, happiness and prosperity of those who are now neglected and spurned by the hell begotten sentiment: "I am better than they." In the kind of visiting, or calling done in the city there is not the slightest degree of economy to be seen—it is time wholly waisted, and worse, for often the seeds of anger and strife are thickly sown and no good whatever is accomplished.

In the country, when we were young, and the practice is not yet abolished entirely.

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In the country, when we were young, and the practice is not yet abolished entirely, people went visiting because they really wanted to see their neighbors, and learn how they were getting along, and to consult with them mutually in regard to household or farm matters. And when the visit was made they did not go empty handed wearing black kid gloves in July; they took their sewing or knitting, and in the "long ago," if spinning was hurrying, then the little wheel went with them. The would work, and talk, and plan, relate experiences and gather items of interest which were stored up for future use. Some families in the country having high notions of where they belong in the long cortege marching down to death, put on airs, snub their neighbors' and their lily handed daughters are too good to associate with those red handed girls who stoop to milk, we sh or iron. Aye, their girls are too delicate and blue-blooded to associate with young men who work on a farm. They fly high, soar aloft, and when they come down very likely in the lap of a city fop, whose head was intended for brains, but contained only a nervous puzzle. Such people it is to be hoped are few, and we trust that the mothers of our country will have mercy enough on their daughters to teach them that labor was God-ordained and in perfect harmony with the physical system and the solid growth of the intellect. Idleness is everywhere the parent of vice, and probably this is one of the reasons why vice is more prevalent in the city than in the country. Industry saves from crime, promotes the growth of body, and consolidates the brain for the reception of strong mental food.

Social meetings of all kinds whether in families or in the Grange hall; in the meet.

promotes the growth of body, and consolidates the brain for the reception of strong mental food.

Social meetings of all kinds whether in families, or in the Grange hall; in the meeting-house or elsewhere, if conducted on humane principles are productive of good, and will help to lift the masses out of that idleness which is the father of unnumbered evils. There is then economy in visiting, not only in the matter of keeping one's hands busy, but in making the right use of intellect in furthering the happiness of our fellow beings.

We forgot to say that a very few ladies seem disposed to visit all the time and thereby neglect their business in the household. We don't recommend that kind of visiting, and such should be kindly labored with by their charitable sisters.—R. H. Slosson, in Western Rural.

The Houng Folks.

Mother's Girl.

Sleeves to the dimpled elbow, Fun in the sweet blue eyes, To and fro upon errands, The little maiden hies.

Now she is washing dishes, Now she is feeding the chicks, Now she is playing with pussy, Or teaching Rover tricks.

Wrapped in a big white apron, Pinned in a checkered shawl. Hanging clothes in the garden, Oh, were she only tall!

Hushing the fretful baby, Coaxing his hair to curl, Stepping around so briskly, Because she is mother's girl.

Hunting for eggs in the haymow, Petting old Brindle's calf, Riding Don to the pasture, With many a ringing laugh.

Coming whene'er you call her, Running wherever sent, Mother's girl is a blessing, And mother is well content.

Far from men's lairs, the woods and hills Yield sweet delight, while murm'rous rills With notes responsive to the trills Of birds, hymn canticles. Here men may breathe a purer air;
Here men a common worship share;
In scenes like this awaits Repose.
Life grants elate new life, and shows
No creed severe; no chastening rod;
A temple here to worship God!
—Ellis B. Usher.

Time glides with undiscovered haste; The future but a length behind the past. -Dryden.

All truth is precious, if not all divine,
And what dilates the powers must needs
Cowper.

The Strange Parasites Which Fatten on the Flanks of Man-Eaters.

One vicious, expressionless eye, says a writer in the New York Post, was cast slightly upward and as the shark moved slowly along his entire form was visible. At the head swam several of the famous pilot fishes (naucrates). They were continually darting at objects on the surface of the water, then running nimbly after their great friend, as if to tell the news, and taking up their position by the side of the gills.

great friend, as if to tell the news, and taking up their position by the side of the gills.

The skipper had baited the hook with a twelve pound grouper, and making it fast to a piece of wood that would allow the bait to drop ten feet from the surface, tossed it over. The shark had disappeared, but in ten minutes he was seen swimming towards the smack again, and finally ran foul of the bait, and I distinctly saw him take it. There was no turning on the back; he seemed to sink below it, and took it without turning in the slightest, and moved off with the same measured swing.

The skipper slacked out the line gradually until about thirty reet had gone; then taking a brace against the rail, he allowed it to become taut, and jerked the hook into the thief. Luckily he dropped the line, as the jerk that came in response to his would have started an ox, and the line went hissing over the rails so fast that it could not be followed by the eye. "Let him have all he wants," said the skipper; "the more line, the quicker I'll down him."

Then ensued a struggle that would have made some of the hand-liners of the northern fishing banks open their eyes. When the line (or rope) had gone out nearly two-thirds of its length the fisherman skillfully caught it with a belaying pin, and so gradually reduced the speed of the fish. Finally, throwing off the pin, he seized the line in his hand and ran forward, then aft, taking in the slack so gained. Then the shark would go straight away, taking him to the rail, and the belaying pin would be adopted again as a soother. Four or five such rushes as this evidently had a very decided effect on the great fish.

The snark gave some terrific lunges as his head was harded out of water, and at my on the great fish.

as this evidently had a very decided effect on the great fish.

The snark gave some terrific lunges as his head was hauled out of water, and at my request a block and tackle was rigged and he was hauled on deck and dispatched by a blow on the head. I watched particularly for the pilot fishes as he came up. The little striped creatures darted wildly about as if bewildered, and then disappeared be neath the bottom of the smack, evidently thinking they had found another companion. There were other attendants of the shark that did not desert it. I voticed them about in the water, long, black, snake-like creatures about a foot in length, and when the shark was hauled from its native element, they came with it, adhering to its sides and presenting a strange contrast. The fishes were remoras, the echeneinus of the naturalist. They may be termed boarders to a certain extent, as they live about the body of a shark and I have seen them on a large porgy and also clinging to a turtle. They have upon the upper side of the head a remarkable sucker, composed of parallel plates, so that they can attach themselves at any time. So firm a hold did they take that it was with difficulty that I pulled them off, using considerable force,

A Tropical Tornado.

A Tropical Tornado.

"The tornado of Monday last was a vivid illustration of what the wind can do when it gets a good ready on," said John B. Rob inson, member of Assembly from Delaware county, and for eleven years an officer in the United States navy. "I was over yesterday to see the effects of the blow in Camden, and the destruction is similar to that caused by a hurricane in the tropics, or an East India typhoon. No one can ever believe the wind could exert such unearthly force until he has experienced it himself. I was in a typhoon once, on the 11th day of August, 1871, in the United States storeship Idaho, in Yokohama Harbor, Japan. I never want another such experience. We had had a long spell of intensely hot weather. The day before the typhoon part of the 10th British Regiment and Royal Marines, exchanged to go home, were transferred to a transport, and to avoid the heat moved in the early morning. Five of the men were sun-struck, when the sun was not three degrees high. We had about twenty hours' notice of the coming of the typhoon by the fall of the barometer, and the shifting of the wind and the increasing moisture of the atmoshere. A few hours before the center of the storm passed, the sky became filled with inky-black clouds, gyrating around in the most confused manner; the wind blew a steadly increasing gale, finally, as the storm center was on us, assuming hurricane violence.

"I was navigating officer, and part of my date was to weight the heavest as a desired and the increasing officer, and part of my date was to weight the heavest as a desired and the storm center was on us, assuming hurricane violence.

center was on us, assuming hurricane violence.

"I was navigating officer, and part of my
duty was to watch the barometer and symsiesometer, which I marked every ten and
five minutes. The mercury fell in regular
jumps toward the last, as if the bottom was
out of the tube, halting at 27.46. For the
half hour preceding this situation was perfectly awful. We were at anchor in the
harbor, the two best bowers down and
veered to ninety fathoms of chain on each.
The harbor was full of craft, large and
small. Admiral Keppel's flag-ship, a Clydebuilt steamer was on the side of us, the Pacific Mail steamer America, Captain War
saw, on the other, and a Norwegian bark
astern. The steamers kept full head of
steam on and could ease up their cables.
Our vessel and the other sailing had to trust
to their cables.

"The danger of fouling was imminent."

Our vessel and the other sailing had to trust to their cables.

"The danger of fouling was imminent. The bark drifted all around us, fortunately not striking. Had she done so both vessels would have been ground to pieces. The wind at its height was simply indescribable, the noise like that of 10,000 devils yelling in air. There was no sea on while the wind blew at its greatest velocity, as it cut the tops off the waves like a knife and the air was filled with a blinding salt mist. We could not show our heads above the rail. To look to windward or hold your head up against the wind was impossible. When the barometer ceased falling the wind fell, and a dead calm, awful in its stillness, succeeded for about fifteen minutes. We were then in the vortex of the storm, and, as we after calculated, four miles to the actual center. As the wind lulled the sea rose, and came piling in the harbor in tumultuous waves, running in all directions, toppling us over our decks and filling them with tons of water, Our hatches were battened down and everything was fast, of course, but our most serious danger was then, as we were loaded deep and rolled so that we actually thought at one time we'd turn clean over, but we came through it all right, though heavy shaken up.

"The wind came out from the opposite

loaded deep and rolled so that we actually thought at one time we'd turn clean over. but we came through it all right, though heavy shaken up.

"The wi'd came out from the opposite quarter, in a few minutes blew the sea down again and raged with demoniac force and decreasing velocity for an hour or so, the barometer jumped up to near thirty inches again, the sky cleared, until there was not a cloud to be seen and the typhoon was past; but it left its work behind. Numbers of small craft and several large steamers were on the beach in pieces no bigger than a vardstick. The harbor was full of tea boxes for days from the wrecked vessels. Ashore the view was like in Camden yesterday, only the swath was far wider. I have been five times across the Atlantic, in some heavy wintery gales on that treacherous ocean, was in a cyclone off Hatteras in the frigate Macedonia, have scudded 2,000 miles before the brave westerly winds' on one parallel, off Cape of Good Hope when going out to India, but I have never seen the wind blow so hard as in that typhoon. Indeed, I never believed it could blow so and used to joke at the messtable with the executive officer. who had been in a typhoon prior to this one and would yarn about it. During the height of the typhoon he was standing alongside of me under the break of the poop. Capt. J. Crittenden Watson was in the cabin praying, he leaned down close to my ear and yelling with all his power, otherwise I could not have heard him for the shrieking of the wind, said: 'Now, d-n you, don't you believe it can blow?' My reply was an affirmative nod of the head, as I registered the next jump of the barometer. "Is there no way of escaping or mitigating the danger of these violent tornadoes?"

"None that science has yet discovered. Outside, with sea room, you can run out of them if you are warned soon enough, as the captain of the Twilight tried to do last Monday, but if caught in the track of one all you can do is to make everything snug about decks, batten down your hatches, bend your storm s

The English sparrow has a fresh indictment against him, that of wantonly nipping

off the blossoms from orange trees in Louisiana and Florida, where the growers are complaining that a short crop will result from this destruction.

How Screws are Manufactured.

How Sorews are Manufactured.

The art of making screws is an art perfected by the genius of mechanical invention. The best screws are made of "charcoal-iron" wire. The wire goes first, in a coil, to the "headers." By the heading machine the wire is bitten off to the desired length at the rate of from one to two and one half per second, that is, of the length of a screw the size of which is to be made, and "upset" to the shape of the head. The machine known as the "header" is very solid. The wire fed into it is cut, or bitten, and simultaneously a head is "put on" it by a blow, which to speak humanly, must have been unexpected, inasmuch as it is secondary and sudden. Now the bit of wire comes out of the header in the length of the size of screw it is to be, and with the head on, but no thread. It goes next to the cylinder, where it is rattled in sawdust to brighten and clean it. After being cleaned the screw bits, as they still are, are placed in the storeroom till wanted, when they are brought to the shaving machines, where the head is shaved and the slot cut. They are then washed in hot soda water to clean them and sent to the threading machine, where the thread is cut. "A duck drinking water" is what an enthusiastic gentleman likened the screw-threading machine to, and well he might, for anything more like nature in its operation it is impossible to find in the whole range of automatic machinery. The blank screws, as they left the header, were emptied into a pan supported by a revolving standard at the side of the threader. Over the pan dip two iron fingers, which scoop from the pan all they can hold of the blank screws. These fingers, when full, are automatically tipped backwards, feeding down the blanks to the body of the machine. Now, one by one, as they drop into place, two iron fingers pick them up and put them in position to be treated. In a moment it is done. To be exact, at the rate of twenty per minute the screws went through the "shaver," and at the rate of the profess of manufacture—heading, shavin

The Dead Sea.

The Dead Sea is an old and decrepit salt lake in a very advanced stage of evaporation. It lies several feet below the level of the Mediterranean, just as the Caspian lies several feet below the level of the Black sea; and as in both cases the surface must once have been continuous, it is clear that either sheet must have dried up to a consideradle extent. But, while the Caspian has shrunk only to eighty-five feet below the Black sea, the Dead sea has shrunk to the enormous depth of 1,292 feet below the Mediterranean. Every now and then, some enterprising DeLesseps or other proposes to dig a canal from the Mediterranean to the Dead sea, and so re-establish the old high level. The effect of this very revolutionary proceeding would be to flood the entire Jordan valley, connect the sea of Galilee with the Dead sea, and play the dickens generally with Scripture geography, to the infinite delight of Sunday school classes. Now, when the Dead sea first began its independent career as a seperate sheet of water on its own account, it no doubt occupied the whole bed of this imaginary engineer's lake—spreading, if not from Dan to Beersheba, at any rate from Dan to Edom, or, in other words, along the whole Jordan valley, from the sea of Galilee, and even the waters of Merom to the southern desert. (I will not insult the reader's intelligeace and orthodoxy by suggesting that perhaps he may not be precisely certain as to the exact position of the waters of Merom; but I will merely recommend him just to refresh his memory by turning to his atlas, as this is an opportunity which may not again occur). The modern Dead sea is the last shrunken relic of such a considerable ancient lake. Its waters are now so very concentrated and so very nasty no fish or other seif-respecting animal can consent to live in them, and so buoyant that a man cannot drown himself, even if he tries, because the sea is saturated with salt of various sorts until it becomes a kind of soup or porridge, in which a swimmer floats, will he, nill he. Persons in t The Dead Sea is an old and decrepit salt lake in a very advanced stage of evaporation. It lies several feet below the level of

Thither shall all the valiant youth resort, And from his memory inflame their breasts To matchless valor!

—Milton.

"Sunshine is said to be better than medicine." The man who got sunstruck the other day doesn't believe so.

Rats Warn Miners of Impending Danger.

Rats Warn Miners of Impending Danger.

Old miners have a great respect for the rats of the lower levels. They neither kill the rats nor suffer them to be killed by green hands. In the first place, were there no other reason, a dead rat left under ground would scent up a hole level, and, in the second place, the living rats devour any bones, scraps of meat, or fragments of other goods left in the mines, which would, by their decay, vitiate the air, generally hot at best. Rats also give a warning when a cave is about to occur. They feel the pressure of the settling ground, even before the cracking of the timber is heard, and come forth upon the floor and scamper uneasily about by scores. For these and other reasons the miners have a friendly feeling toward the rats, feeding and protecting them. In nearly every mine the men have one or more of the little animals as pets, and these are quite tame, coming out of their hole to be fed at lunch time.

When rats come into a new drift or crosscut it is considered a good sign—is thought to mean that the mine will strike ore. The other day when the men were at work on the face of a new crosscut on the 2,700 level of the Sierra Nevada mine a rat came into them, traveling along the line of the compressed air pipe. When the little rodent was seen some of the new hands wanted to kill it, but the old miners would not allow it to be hurt. They said it would bring luck to the crosscut. So they fixed up in the roof of the drift a box as a house for the rat, and placed food near at hand, in order that it might find its new quarters profitable as well as comfortable. There is much talk among the miners about the coming of the rat, and the men in the new crosscut are very proud of it and have high hopes on account of its presence. Woe unto the man who shall intentionally kill that Sierra Nevada rat.—Virginia Ctty (Nev.) Enterprise.

How a St. Lawrence Muscalonge Was Caught by Two New Yorkers.

Caught by Two New Yorkers.

Ten gentlemen sat down yesterday to a dinner in a leading uptown hotel where the feature of the menu consisted of a muscalonge weighing twenty pounds, caught by Mr. Powell, a merchant of this city, and a companion on the St. Lawrence river, five miles from Brockville, Ont. The fish was caught by trolling. A strong line was used, and, after circling about for a short time, a huge fish leaped out of the water, and, diving down again, savagely grabbed the spoon. The hooks suspended from it took hold firmly in the lower jaw of the fish, and then began a struggle between the monster and his captors. The gamy fish went down the river like a race horse for a hundred yards or more, and then, describing a semicircle, sped in the opposite direction. Plenty of line was given it for a short time, and then the fisherman began to haul in carefully until they got the fish near boat, but they found then that they could not land him without upsetting the craft.

Meantime a throng of picnickers on the islands hard by had come to the shore, and were excitedly yelling to the sportmen to be cautious, and not attempt to drag the savage monster into the boat. A river steamer loaded with passengers came along and blew her whistle, while the people on board cheered lustily at the furious lashings of the fish. A little more line was given the big fish, and then, while one man held on to the prize the other pulled for dear life toward the American shore. The fish resented this by frequent plunges out of the water, but the strong hooks kept their hold, and his efforts only served to mingle his blood with the water which he lashed into foam.

The boat was at last run high up on to the shore, and at the same moment Mr. Powell

The boat was at last run high up on to the shore, and at the same moment Mr. Powell, grasping the line firmly with both hands, drew the fish on land amid the cheers and yells of the picnickers and the people on the steamer. But the struggle was not yet ended. The fish floundered and flopped about with the line entangled about it, while its captors danced around and endeavored to get hold of it. Mr. Powell finally got in a blow on the head with the footrest of the boat, and the game fellow flopped once more, was struck again, and then lay still.

still.

Both men were almost exhausted, having fought for their prize for an hour and a half. The flsh was carefully packed in ice and shipped to this city. There was not a dish large enough at the hotel to hold the big fellow, and a clean board, covered with linen, was provided for it, and in that shape it was served and greatly relished by the dinner party.

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9 9 9 9 9 9 9 ONLY 25 CENTS!

The KANSAS FARMER will be sent on Trial to New Subscribers from the date when the subscription is received until January 1, 1886, for 25 cents.

Cholera still continues in Spain, and it is reported in France, in Canada, and in Japan.

Only 25 Cents.

Send in 25 cents and take the KANSAS FARMER the rest of the year 1885.

A dozen or more new railway projects are under way in Kansas at this time. New banks and new railroads indicate a prospercus people.

Two new National banks were established in Kansas last week, one at Belleville, in Republic county, the other much more efficient than they were a at Anthony, in Harper county.

We propose to make the "old reliable" KANSAS FARMER so valuable that no wide-awake farmer can afford to keep house without it. Try it the remainder of 1885.

Kansas City merchants have attacked the railroad companies doing business at that place, charging them with discriminating against them in the matter of freight ra'es.

Peace has finally been restored among the iron-workers in and about Pittsburg, and our information is that all the iron establishments in that region are now at work.

On the morning of the 27th inst. there was a heavy frost in the region of Staunton, Virginia. Garden stuff and late corn were badly damaged. Light frosts were reported the same day in various parts of Iowa. It will be a cold day in Kansas when we have frost on the 27th day of August.

Reports from the large cities are to the effect that trade is improving. Purchases for the fall trade are larger than they were last year, and the volume of business in general is larger than at the same time last year. Collections are made with little trouble, and people generally are feeling better as to business prospects.

The time has expired in which the cattlemen were to get out of the Cheyenne and Arapahoe reservations. Some rectly, such as manufacturing indusof the cattle are now off and owners of tries; the other is of a quasi public the others are working as fast as they character in which the people at large border to see that the President's order they will interfere as long as there is many persons would have difficulty in evident intention to get out as fast as understanding how legislation is to help insubordination is treated summarily the KANSAS FARMER the balance of possible without loss or injury.

CHANGE OF MANAGEMENT.

Yesterday, the first day of September, A. D. 1885, Dr. R. R. Brown, who during the past three years was Business Manager and Treasurer of the KANSAS FARMER Company, disposed of his interest in the paper to his associates, and retired permanently. The Doctor's health has not been good, and the close confinement to the office which he found to be necessary was fast telling upon his physical energies, and he finally concluded that it would be better to make a change to the end that he may have a more active employment and enjoy more of the sunshine and open air.

There never was a more devoted man to his business than Dr. Brown, and in severing their business relations with him his associates wish to bear testimony to his sense of duty, his faithfulness and constant attention to duty. Their good wishes follow him wherever he may go and into whatever business he may engage. Should he ever conclude to change his residence, the new friends and acquaintances that he makes will find in him a useful citizen, and an honorable, clean member of society.

Mr. H. A. Heath, who has been Trav eling and General Business representative of the FARMER, has assumed the general business management of the

Adjustment of Labor Troubles.

The times are ripe for serious discussion of the best means for adjusting difficulties arising out of differences between laboring men and their employers. Labor strikes are becoming so common that it may be said in general terms there is at least one on hand all the time. The great strike among ironworkers in Pennsylvania and Ohio lasted nearly a year. Organizations among workingmen are common, and they are few years ago. Their efficiency comes of the better and greater information of members as to their duties as citizens. and as to the propriety of operating within the law in all measures of redress. Progress in this direction has been marked, and it may be set down as a big credit mark to the laborer's account. So much has been learned within the last ten years that violence is specially prohibited by all labor organizations, and the more powerful and creditable ways of peaceful negotiations have been adopted. The strike at Pittsburg in 1877 amounted to a riot, and innocent people had to pay in money the actual damage done. The strike in Kansas in 1885 was quietly settled, in an orderly way, and quite successfully on the part of the workmen.

These facts show the progress made bo workingmen in honorably maintaining or defending their side of issues preof the men whose hard muscles bear up under the greatest physical strain con-State and Nation. There are two classes of employment in which men in large Lumbers are employed; one is purely private and affects the public only indican. Troops are now stationed on the are directly interested, as railroads, ferries, mills, etc. This distinction is to is obeyed, though it is not likely that be kept in mind, because, unless it is, matters, or why legislatures have any and harshly. That is all right; it is es- 1885 for 25 cents.

cle we will consider only that class of it would not be right if the wages of the employment in which the public is directly interested-say railroads, for ex-

Every man, woman and child in the country is directly interested in the prompt, efficient and safe management army and navy is made secure in a cerof railways. The farmer, for instance, ships his grain and stock away to distant markets, and in return he receives home supplies, as groceries and dry goods, hardware, lumber, etc. For the transportation of these commodities railroads have come to be absolutely necessary, and they are needed every day, not only in the dry season, or in the winter, or in the summer. They are necessary to carry about the ever-flowing volume of exchanging wares. Besides the carrying of trade articles, upwards of three million persons in this riedly. We shall not attempt to do so country alone travel every day from now, for this article is longer than it place to place on the railroads. Should the railways of the country stop running subject, and will refer to it again soon. a single day, millions of dollars in property would be lost in consequence. There is no use, however, in contemplating any such catastrophe, for the subject cannot be entertained at all. The roads must be kept up, not for the benefit of stockholders and officers, but in the interest of the people generally. The public needs the railways, needs their services and that continually.

That point established, it is easy to see what an important part in the work is done by the hand-workers, the engineers, firemen, brakemen, sectionmen yardmen, switchmen, trackmen, and all the vast army of a million and a half of running. These men are as necessary to the transportation system of the country as are the ties, the rails, the bridges, the station-houses, the Presidents and Directors. They are all so many necessary parts of one vast system of necessary labor. The public can out the roads themselves; and it would verts washed away.

employment should be continuous, to the acre; drilled, first piece, 17.3 Trains must run every day; railway bushels, second piece 20.9; average of men must be on duty every day; there the drilled seeding 18.95. The Profesmust be no stop. It is the people that sor says he thinks that if the same quanthus determine; they are the interested tity of seed had been broadcasted that parties in the proportion of a thousand was drilled, the result would have been to one. Ten men may own a railway much more strongly in favor of the drill. line and operate it, but ten million people are interested in keeping up the gular fact. A small piece of ground movement of trains of cars on that road. was seeded last fall in drills two feet But when a dispute arises as to the apart. One-half of the area was sown treatment of the workingmen by their at the rate of one-half bushel to the employers, the companies, if no agree- acre, and the other half at two-thirds ment can be reached at once, (and it bushels per acre. During the growing sented, and they are much to the credit rarely happens that such a result takes season this year both plots were thorplace,) the men have but one remedy- oughly harrowed three times, between to strike. If the strike affected the pub- the drill rows. The ground was rich tinually. But they do not solve the lic only indifferently, as in the case and well prepared before sowing. The problem. They only prove that men who of a strike in a cotton mill, peo- wheat made a strong growth in the fall earn their daily bread by the labor of ple generally would not feel impelled and passed the winter and spring with their hands have learned how to con- by personal interest to interfere; very slight damage. There was, of duct a siege against what they deem to but it is not that way. A strike course, a rank growth this season, be injustice fortified by money. The on a railroad affects the people and their which caused the wheat (Velvet Chaff) great question is not that; it is much business directly; it goes right to their to lodge some before fully ripe. The more comprehensive and involves the pockets, and they feel the injury in grain was well filled, however, but the whole people in their organized form as many ways. The great problem, then, harvesting was rather difficult, and the labor difficulties satisfactorily so as to yields per acre were: Plat 1, sown onethat prompt and continuous.

and teamsters are in the army. Our laws are very stringent as to discipline among soldiers and marines. A de-

right or duty to interfere. In this arti- sential to efficiency in the service. But soldiers depended on the caprice of their officers. The service is rendered, not to the officers, but to the people; hence, the people see to it in their laws that every soldier and attache of the tain monthly salary, and to a pension for his family in case he dies on duty. We do not so treat railway employes, and right there lies the heart of the difficulty. Make the pay of the railroad laborer as certain as is that of the soldier, and there would be an end to railroad strikes.

The best way of effecting so desirable a result is one of very great interest and importance. The subject is too grave and involves too many and too sacred interests to be treated lightly or hurought to be. But we feel deeply on the

Experiments in Wheat Sowing.

Prof. W. C. Latta, of the Purdue University, LaFayette, Ind., recently published a statement of results of certain experiments in wheat seeding. In the fall of 1883, he sowed eight different lots of same size with the same kind of wheat seed (Fultz) and he sowed from one peck to eight pecks to the acre; that is, one peck on the first piece, two pecks on the second, three on the third, and so on up to eight pecks on the last piece. At the harvest of 1884 the yields of the 2d. 3d, 4th, 5th and 6th pieces respectively per acre was 24.9, 33.5, 35.5, workers that keep the great machine 31.8, 34.8. No.'s 1, 7 and 8 are not reported because there was no record of the quantity of seed sown on those lots. In 1884 the experiment was repeated, and at the harvest of 1885 the yield was, beginning with No. 1, 7.7, 16.4, 25.3, 29.1, 32.1, 33.4, 32.1, 34.8.

In the fall of 1884, a test was made of no more do without the help of these broadcast and drill sowing. The intenhard-working men than it can do with- tion was to get equal quantities of seed sown on the different lots, but the be as great a general calamity if these broadcast sower put on five pecks while men should stop work as if the tracks the drill seeded four pecks per acre. were all torn up and the bridges and cul- One piece was sown broadcast, and two pieces of same size drilled. The yield It is necessary, then, that this kind of at harvest was, broadcasted, 17 bushels

Another experiment discloses a sinis, what shall we do to adjust these wheat was not quite all gathered. The prevent railroad strikes and thus secure half bushel per acre, 32 05 bushels; Plat efficient service in transportation, and 2, s wn two-thirds bushel per acre, 32.18

He draws no conclusion from this be-Railroad workmen are as important cause of embarrassments mentioned. He proposes to repeat the experiment and teamsters are in the army. Our this fall with seed of a variety having stiffer straw.

Wanted.

contained two columns of telegraphic report of a prize fight at Cincinnati. The public taste must be badly vitiated when it wants to know all about the beastly performance of a couple of gamblers and drunkards that respectable people do not want about their houses. It is a sad commentary on public morals when a pair of roughs go to pounding each other in presence of thousands of people who look on and cheer the good licks. There is something graceful in bicycle riding, something pleasant and restful in billiards; but there is not a single redeeming feature in prize fighting. It is beastly and barbarous. It seems strange that any well-bred people should lend any sort of countenance to it. There is something manly in the art of self-defence; and men may reap benefit from good-natured sparring done in private and for healthful exercise; but there is nothing, absolutely nothing, commendable in prize fighting.

There is a very interesting pleasure resort in Georgia-Tullulah Falls, and the people in that State are justly very proud of it and take pleasure in advertising it. The latest is to the effect that Wm. Forman, of New Orleans, came here yesterday from Tullulah Falls for medical treatment. He tells a most wonderful story, all of which has been substantiated. While climbing up the rocks at the side of the falls, his foot slipped and he fell, rolling down an incline of 400 feet, and then fell over a precipice a distance of 376 feet. He fell into a soft marsh. For more than thirty hours he remained where he fell, unable to move, and almost too weak to call for assistance. At one time he saw the members of the rescuing party within thirty yards of him, but was unable to make himself heard. Fortunately he fell near a small stream and managed to get water by dipping his handkerchief into the water and sucking it. He also spread the handkerchief over his face to shut out the rays of the scorching sun. With his teeth he tore off pieces of the alpaca coat which he wore, and made a sort of pad for his head to rest upon. The distance he fell has been measured, and all his statements have been fully proved.

We are in receipt of a notice from Prof. C. V. Riley, Entomologist of the Department of Agriculture at Washington, to the effect that, in response to a Memorial presented to Congress by the American Ornithologists' Union, and through the efforts of others interested in the subject, a branch of Economic Ornithology has been established under the Division of Entomology of the Department of Agriculture; and Dr. C. Hart Merriam has been appointed as Ornithological Agent to take charge of this divisional work. The scope of the investigation will cover the entire field of the inter-relation of birds and agriculture, particularly from the entomological standpoint. The inquiry will relate primarily to the food habits of birds, but will include also the collection of data bearing on the migration and geographical distribution of North American species. In this last inquiry the Department hopes to have the cooperation of the American Ornithologists' Union, Dr. Merriam being chairman of the Committee on Migrations of said Union. The co-operation of farmers is solicited, and those having knowledge of food habits which are beneficial or detrimental to agricultural or horticultural interests are requested to communicate the same to Dr. Merriam. The assistance of persons willing to aid in the collection of birds' stomachs is particularly desired. Information is also wanted concerning the presence and habits of the so-called Eng- 1885 for 25 cents.

Last Sunday morning the daily papers lish sparrow (Passer domesticus) in the Southern States and in the region west of the Mississippi. Dr. Merriam will by Kansas City packers to the injury have his headquarters at Sing Sing, N. Y., until October 1, 1885, and after that date at the Department in Washington, and should be addressed accordingly.

Experimental Test Clubs.

The FARMER has often called attention to the importance of local organizations among farmers for purposes of mutual improvement. Such associations are educators of a high order. They can be made peculiarly serviceable because of the ease of handling them in the interest of particular localities. Farmers in a township may organize a club, a lyceum, a society, an alliance, no matter what the name adopted, that is specially adapted to the needs of the people of that particular township. It may be wholly unlike one in the township next adjoining and yet be just what is needed.

It is not our purpose in this place to go into the subject in detail; we merely wish to call attention to the Experimental and Test Club in Jefferson county, this State, which holds its meetings wherever it is most convenient, among the members. George Goddard is now President and S. Stiers, Secretary, both of whom may be addressed at Nortonville. On the back of a letter forwarded by the Secretary to this office we find printed the following sketch of the

The Farmers' Experimental and Test

Club is an association of farmers, organized 1878, for social and business purposes. The Club of farmers and their families meet at some one of the member's residence once a month, in a The Club of farmers social way, where a programme of addresses, essays, selectreadings, debates, queries and business is executed, interspersed with music; and meets at the call of its President when any business is to be transacted that requires attention before the next regular gathering. The Club is alive to every move that falls in its sphere that promises a bene-fit to the club or community at large s not narrow in its character, but. on the contrary institutes public occasions, such as an annual harvest home picnic, farmers' institutes and annual fair, which has been free admission to all. We are glad to meet the public on these occasions, and have them take part in all that is social and profitable. The benefits the club has derived as an organization and the undeveloped possibilities are numerous. Every member has been more or less benefited by the parliamentary practice the Club gives. Various experiments are made by the members on their farms, reported and discussed in the Club, and given to the public th ough the different agricultural papers. The best agricultural papers ral papers. The best agricultural papers of the day are read by its members. The organization has been instrumental in developing a greater interest in improved stock, and its annual fair gives an opportunity to compare the different breeds of stock and field crops. offer no premiums as a Club, but anyone wishing to encourage any special competition is privileged to offer a premium on that competition and make the conditions of the competition. Each member of the Club is regarded as honorable and upright in his dealings. If any highly meritorious stock, seed or implements are received from abroad by any of us, we are not backward in speaking well of the sender publicly, neither are we backward in notifying the public if any of us are swindled, and by whom. In short, we recognize that "in union there is strength," and endorse fair thing ever witnessed in the West. dealing among ourselves and others.
Our motto: "Hew to the line, let the chips fall where they will." We solicit the acquaintance of similar institutions

Injury to Hogs in Shipping.

Attention was called some weeks ago done to hogs shipped to the Kansas City market in the way of bruising the flesh on different parts of the body and particularly in hams. This is an importan matter, for, as the packers say, they cannot afford to pay full price for hogs when part of the slaughtered carcass is afterwards condemned.

From the appearance of the hams after curing, these bruises are beyond question the result of kicking, prodding with sharp prods, blows with prod poles and heavy whips and overloading in the

To a large extent, say the packers, we believe these abuses have been corrected by the Kansas City Stock Yards company while the hogs are in their possession, but we are satisfied that much of this damage occurs in the coun try and while in transit, and that it is in the power of the shippers from the country to correct this evil. It is hardly necessary to say that so long as a large percentage of the hams cured at our house are rejected by the inspectors as damaged, we cannot afford to pay the highest market prices, as an allowance for bruised hogs must be made in making our purchases.

Without raising the question of brutality, which in itself should be a sufficient reason for more considerate treatment of these animals while in transit to market, it certainly is a matter of interest to the shippers that every possible care should be taken of hogs from the time they leave the farm where they are fattened until they are received by the packers.

No prod poles, whips or sticks of any kind should be allowed in the hands of persons engaged to drive them, and the only implements of persuasion should be pieces of one-inch hose, or the tugs from a cast-off harness, cut two or three feet long.

Loading into the cars should not be effected by kicks and blows, but reasonable care and patience should be used.

It is also a very short-sighted economy to overload a car in order to save freight, as any saving so effected is more than lost by the greater bruising and other damage received by the hogs while in transit.

The Kansas City Fair.

The Kansas City Inter-State Fair for 1885 will be held on the Exposition grounds the 14th to the 19th days of the present month inclusive. The Kansas City Fairs are always worth attending, and this year great pains are taken to make it still more attractive. The magnificent ground in which the Exposition is held has been undergoing a year's improvement. Buildings, commodious and ornamental, have been made more beautiful than before, and nothing that art or money can do has been spared upon this lovely place.

The premiums this year surpass by thousands of dollars those of any previous one, especially in cattle, horses and mules.

The shows will be more select and will surpass in grandeur of display any-

chips fall where they will." We solicit the acquaintance of similar institutions everywhere, that we may exchange communications.

Hiram Goodwin, near Kankakee, Ill., recently purchased cattle at Chicago, some 200 head. They were represented to him as Michigan cattle. At latest reports six of them had died and ten others were sick of Texas fever.

Tell your neighbors to try the Kantakee, Ill your neighbors to try the Kantakee the best horses known to the ring have been secured to contest for the best horses known to the ring have been secured to contest for the stake and purses offer d, whose exhibitions will be the most exciting ever seen upon the track of this Association. Nor are these races a spectage low.

Greamery, fancy.

Good.

Greamery, fancy.

Good.

**ChikEs—we quote: Full dream, 1le; part skim flat to end i

receipt of a complimentary ticket and invitation to be present. For premium lists, speed programmes, or any other information, address Ed. H. Webster, Secretary, Kansas City, Mo.

THE MARKETS.

By Telegraph, August 31, 1885.

STOCK MARKETS.

New York.

BEEVES—Receipts 184 car loads for our market and 27 car loads for exportation The feeling was a tritle better and the yards were cleared. Extremes, 4 50a5 50 for native steers, 3 85a4 40 for fear to good Colorado do. General sales of natives were at 5 25a6 00, and of lexan at 3 85a4 00.

SHEEP—Receipts 70 car loads. Dull, at 2 50a i 50 for sheep and 4 00a6 00 for lambs; a car load f choice wethers taken for exportation at 4 37½. HUGS—Receipts 92 car loads, Dull and weak at 4 60a5 10.

St. Louis.

CATTLE—Receipts 1,200 shipments 1,000. The bulk of supply is of poor grades which are not vante, and transactions are slow. Natives and hipping steers 4 50a5 50, native butchers steers 10a3 50, mixed lots of covs. helters buils. etc., 5 30, grass 1 exans 2 50a3 60, Indian steers 2 75

30. grass 1 exans 2 soas 60, indian steers 2 78 at 400.

HOGS—Receipts 2,500, shipments 1,100. Market steady and stronger. Packing 4 00at 45, Yorkers 4 40at 46, butchers 4 60at 80.

SHEEP.—Receipts 2,500 shipments 1,100. Good grades steady and wanted, but poor stuff very dull. Good to choice muttons 2 75a3 50, common to medium 2 (0a2 65, lambs 2 50at 40).

Chicago.

Chicago.

The Drovers' Journal reports:
CATTLE—Receipts 8,500 shipments 2,100 Market stronger. Snipping steers 4 20a4 40, stockers and feeders 2 75a3 00; cows. bulls and mixed 1 60a 375; through Texas cattle steady at 2 50a2 60, Western rangers stronger, half breeds 3 60a4 65, cows 2 5 a3 65.

HOGS—Receipts 21 600, shipments 6,000. Trade slow and 10a15c lower. Rough and mixed 3 75a 4 05, packing and shipping 4 15a4 to, light weights 4 15a4 60.

SHEEP—Receipts 4,000, shipments 500. Market weak Natives 2 00a4 00, Westerns 2 00a3 50, Texans 1 75a3 00.

The Drovers' Journal special Liverpool cable quotes American cattle le per 1b. higher than last week and 1½0 higher than two weeks ago. The supply is light. Best American cattle are selling at 14c per 1b. dressed.

Kansas City.

Kansas City.

Kansas City.

CATTLE—Receipts since Saturday 632. The offerings to day were light and trading in consequence restricted. Sales ranged from 2 95 for 1 exas cows to 465 for shipping steets.

HOGS—Receipts since Saturday 4,432. The offerings to day were moderate and the market weak in sympathy with Eastern advices, with values 50 lower. Extreme range of sales 4 00a4 40, bulk at 4 20a4 25.

SHEEP—Receipts since Saturday 149. Market quiet. Fair to good muttons 2 50a3 00.

PRODUCE MARKETS.

New York.

WHEAT-Lower. No. 2 Chicago 861/4861/4, ungraded red 82a821/2; No. 3 red 88c; No. 2 red. 91a 911/2; No. 2 September, 91/4a911/2; October 931/4a 4933/4. CORN-Lower, closing steady. Ungraded, 51a 52/4; No. 2 51a511/4c.

St. Louis.

WHEAT—Market very unsettled, and the bulk of trading consisted of changing from the near by to more deferred months. No. 2 red, cash 88/48 90c; September, 88, a89/4c; October 91a913/c, November, 381/4697/c.

Chicago.

WHEAT—The day on 'change was one of dullness, with prices ruling steady at the regular ortion, Opened easy. Sales ranged: August 79½, 79½(c; September 79½a80)½(c; October 81½a82¾c; November 83½a84½c; No. 3 spring 72c; No. 2 red 86½, No. 3 red 80.

CORN—Ruled lower. Cash, 42½; August 42½a 43½c,
O TS—Quiet and dull. Cash, 24½.

RYE—Market steady. No. 2 at 56½c.

Borticulture.

Blackberries--A Grower's Method.

At a late meeting of the Minnesota ton, an intelligent small fruit grower of ton, an intelligent small fruit grower of Fond du Lac county, Wisconsin, read a paper on small fruit culture, in which he spoke of blackberry cultivation as follows: "The Briton, or Ancient Briton, first imported from Wales, is the variety which is cultivated in Fond du Lac county, with unparalleled success. It is the king of blackberries, 4,000 or 5,000 quarts being the average per acre. It flourishes best in light, warm and well-drained soil, with fertilization equal to that given a cornfield, or for other crops. It needs more room tilization equal to that given a cornfield, or for other crops. It needs more room than the raspberry, and should be planted in rows three feet apart, three or three and a half feet in the rows. Cultivate and hoe the plants the same as a piece of corn. In treatment, the thumb and finger can be more advantageously used than the pruning knife, and growth is stopped when the stock is two feet high. In protecting the plant two good men will lay down and cover 1,000 hills per day. Beginning at the end of the row, a small quantity of soil is dug away with a garden fork, the end of the row, a small quantity of soil is dug away with a garden fork, and stepping to the opposite side of the bush, one foot is placed at the crown, close to the ground, the fork on the top of the bush; push slightly on the fork, and with the foot hard enough to bend the root, not the tops. The other man then throws on the soil, and in less time than it takes to describe the process. than it takes to describe the process, the bush is secured and ready for a long winter. In spring the crust can be opened with a three-tined fork, and the plant carefully raised, the soil being pressed back firmly at the root. After the row is all taken up, string the wires at once if possible, and the plants are effectually protected from the winds."

Mildew on Grapes.

Mildew is a popular name given to a delicate, cobweb-like coating found on various diseased or decaying substances. It is a minute parasite fungus. Like many other popular names of plants it is used to denote a number of different species, such as the corn mildew, hop mildew and vine mildew. The last named species is one which grows upon the leaves, young shoots and fruit of the vine. It is best known in its oldium stage when the minute interlacing fila-ments from which the fungi are developed make their appearance.

soon after the flowering of the vine, this substance appears on the young leaves, from which the thin, white mycelium spreads rapidly to the older leaves and shoots, which it does not appear to affect injuriously. The chief damage is done to the grapes when they are in a very immature condition, that is, when they are about the size of small shot. The mycelium spreads, and about the end of June appears on the pedicles and on the young berries. The young berries attacked berries. The young berries attacked on their surface or on their pedicles, soon fall off. But the greatest damage results from the mildew infesting the leaves, whereupon the greater part of them turn yellowish-brown at the base, shriyel from that point, assume a club shrivel from that point, assume a club shape, and at last dry up entirely, usually remaining adherent to the withered branch. It is known that the nearer the grapes are to the coast, the greater damage from mildew, and this proves that parasitic fungi thrive best in the saline air. The only remedy known, and that is only a preventive if applied in time, is sulphur. The particles of sulphur, coming in contact with the spores of oidium destroy their vitality. As brimstone is also antagonistic to insect life, the application to prevent insect life, the application to prevent mildew is also a protective measure against the depredations of injurious

To apply the sulphur successfully, the leaf buds should have a generous sprinkling about the time of frondessprinkling about the time of frondescence, and when the blossoms on the racemes are fully developed, a second application should be made, and when the grapes are about the size of small peas another sprinkling is necessary. The proper time of day to apply the sulphur is between the hours of 4 and 9 in the morning, when the wind usually becomes so strong that it is impossible to continue. It is necessary to sulphur

when dry, the least movement of the vine by the wind will cause much of it to be lost.—Farm, Field and Stockman.

The Rose.

At a late meeting of the Minnesota "I plant them all, my roses of Lorraine, Horticultural Society, Mr. C. H. Hamil- The wild sweet briar, that blossomed in the

lane, My Bengal beauties, moss-rose, pink, and white With all their glory."

So sings a Western poet, Mrs. Helen H. Rich. The words have a subtle charm and fascination such as this queen of the flowers possessed. The late H. B. Ellwanger wrote: "The price to be paid for beautiful roses is eternal vigilance inspired by reverent love." It is true that they sometimes profusely bloom in neglected gardens for a while, when the fibers have found their way into a rich soil, and the plants are protected by the very overgrowth of neglect. But they soon wither and die if left to themselves, for "he who would have beautiful roses in his garden must have them in his heart. He must love them well and always." There are two distinct classes of out-door roses, those that bloom only once in a season, called Summer roses, and the Hybrid Perpetual that give a continuous bloom all through the season, and a second crop in September. The soil cannot be to rich or the ground too well pulverized in which to plant roses, and in order to So sings a Western poet, Mrs. Helen rich or the ground too well pulverized in which to plant roses, and in order to be vigorous the old wood must be be vigorous the old wood must be annually pruned away and young shoots shortened or thinned according to their strength. After summer-blooming of hybrid perpetuals they need to be carefully pruned to promote the growth of young wood for the next crop of flowers. There is no need to describe varieties, for the catalogues are full of such, and difference of climate makes a difference of certain sorts. But La France is very of certain sorts. But La France is very sweet, and the new Baroness Rothschild certainly is the most beautiful of roses that ever wore a satin dress. The new rose, "Sunset," of which I had two plants last season, did not fulfil my two plants last season, did not fulfil my expectations and was mistaken by the unitiated for "Safrano." Countess of Oxford was very fine and so was the Duke of Edinburg. Among one hundred varieties grown in my garden, I find many that are tender, and invariably notice the pale roses as the most delicate in growth, with the notable exception of Madame Plantier. "How do you keep off insects?" many people do you keep off insects?" many people inquire. I can only say that the bushes are treated in autumn to wood ashes, lightly dug in, and in the growing season all the soapsuds from the washing and sundry decoctions of whale oil soap with a trifle of kerosene that has been mixed with milk, if applied once a week will keep them clear of vermin. In the blooming season one does not like to put it on, but it need not be put upon the flowers, for if the lower stems are clean the buds will easily be rid of the enemy. Encourage birds, for the little yellow bird destroys quantities of aphis, and is a real benefactor. It is wonderful what a pleasure can be wonderful what a pleasure can be derived from the rose. A garden without it is like the play of Hamlet with Hamlet left out.—Annie L. Jack, in Our Country Home.

If the Bostons can't play base ball, they can afford some enjoyment in hiring a brass band to parade.

The highest velocity imparted to a cannon ball is 1,626 feet per second, equal to a mile in 3.2 seconds; and the velocity of the earth is 1000 miles per hour, or a mile in 3.6

The Queen of England has 315,000,000 subjects, of whom 45,000,000 are Christians, 60,000,000 are Mohammedans, 188,000,000 Hindus, 7,000,000 Buddhists, and about 7,-000,000 pagans.

A Bridgeport man had a "revelation" that the Lord wanted him to work for fifty cents a day less than he was receiving. His em-ployer being a native of Connecticut gener-ously granted his request.

It appears that climate is regarded as having so much effect upon hearing that English physicians sometimes seek to lessen the deafness of patients by sending them to the dry parts of New Zealand.

The Philadelphia Times has been taking a census of the religious opinions of the lawyers of that city, and finds that of the 1,500 members of the bar there, nine-tenths are either church members or haye well-defined church affiliations.

becomes so strong that it is impossible to continue. It is necessary to sulphur in the morning because the leaves are then wet with dew, and the powdered sulphur sticks to them and is thus more effective. If the yines are sulphured

In the Dairy.

Butter Making.

"A lady of Georgia, famous for her admirable housekeeping, bids us write no more on the subject of dairy farming, as she sent first-class butter to Augusta and could get but twenty cents a pound for it."

We find the above paragraph in the Augusta (Ga.) Chronicle. Lest it may discourage the business of butter-making in this State, we will make some general suggestions that we hope will aid our readers in this important industry. We apprehend that the low price of products is not to be attributed to want of care, but to the absence of information as to the best methods of butter well as years and what is really first clear. ter-making, and what is really first-class

Some years since we looked into the dairy of an industrious good woman, and found the lady standing over a Davis swing churn, the very embodiment of disappointment and distress, as she of disappointment and distress, as she realized the failure of herefforts and the very poor quality of the large lot of butter just gathered in her churn. Her darry had been expensive in construction; her cows had cost her much money; her interests had been largely absorbed by the business, and the whole thing was a failure, as she felt. All this because she had not learned that buttermaking is a science, and needed to be studied as such. We made some suggestions, and the butter from this dairy is now selling in this market for forty-five cents per pound, and the good five cents per pound, and the good woman is happy.

We cannot, of course, give a treatise on butter-making in one article, but only a few helps that may be of service. The prime necessity is the proper care of the cream. Milk will readily absorb bad odors; these must be removed from possible contact. It is highly important to a hurrithe cream before it becomes ant to churn the cream before it becomes too acid; otherwise, the butter will have small white specks through it and be much damaged in sale. Acidity in milk is incipient decomposition, and the lavor of the butter is the first element destroyed in this way.

The quality of the butter is much affected by the food. Cows fed on cotton seed will not make good butter. Bran, meal, ground oats, peas, sound hay, cornfodder and sorghum will make good

The cream should not be allowed to reach a temperature higher than that at which it will be churned. It should not be churned until it is ripe, or "turned," as we sometimes say. If cream taken from separate milkings is to be churned at the same time it should be well stirat the same time it should be well stirred, so that the mass may ripen uniformly. It is not necessary to churn the milk. If all cream is put into the churn you will get all the butter, as none will be left in the milk. The skimmed milk can be fed to the calves. By all means have an improved churn. If good butter is made in the old-style.

By all means have an improved churn. If good butter is made in the old-style dash churn, it is an accident and cannot be certainly and uniformly repeated. The churn should have no obstruction on the inside, so as to prevent breaking the granules. Standard butter always "comes" graunlated.

Before putting into the churn it should be determined that the cream is at the proper temperature. In this climate we have found 62 deg. in summer and

we have found 62 deg in summer and 64 deg, in winter to be about right. The churn itself should be brought to a corresponding temperature, otherwise it will change the temperature of the cream after receiving it. It will now be understood that a thermometer is as essential to good butter-making as a churn itself. We guess at a great many things that ought to be definitely deter-

Butter is much damaged by being churned too warm, too rapidly or too long after it has gathered, or "come." These suggestions must be very care-

These suggestions must be very carefully guarded.

After drawing the milk from the churn the butter may be washed through a brine, made by putting about a handful of salt in a gallon of water. The brine should be poured upon the butter and allowed to stand for a little time, and then agitated sufficiently to wash out the water. The butter is then ready to the water. The butter is then ready to be taken from the churn with a perforated skimmer and placed upon the worker. The worker, or paddle, should not be allowed to slip on the butter, as it breaks the granules that stand out, the size of small shot, if the butter has

put upon the market is worked too much. As it is worked, the butter should be salted, putting into it one ounce of salt to every pound of butter. All these conditions may be carefully observed and the butter fail to command a good price because of its unseemly appearance in market. With pound molds it can be readily put into pound cakes and nicely printed, so that each roll can be separately wrapped in waxed paper, to be, finally, put into a nice shipping can, made for the purpose. A little care and neatness will pay a good per cent. in the dairy,

It is, of course, understood that perfect cleanliness shall be observed during

fect cleanliness shall be observed during the whole process. All vessels should be thoroughly cleaned with boiling water and soap, and kept much in the sun. If all the details of the dairy are intelligently observed by a careful dairy-woman, money can be realized from a very pleasant business.—Southern Cultivator.

Dairy Notes.

The cows should have salt quite frequently while on green feed.

Colorado has fourteen creameries in operation, and the State is assuming some proportions in the manufacture of butter and cheese.

Every dairyman should be prepared to feed green grass or green cornfodder in the stable night and morning, as soon as the pasture begins to fail.

Cows inherit the propensity to give large or small quantities of milk, but still the quantity will be varied greatly by the treatment to which they are sub-

All things considered, the largest flow of milk is the most profitable, unless it is secured at too great expense; and rea-son must be used here as in all other

There are 2,400 stables of cows in New York, the milk of which is sold in the city, and these cows, from the time they enter the stables until no longer able to give milk, never see grass.

A writer in an exchange says: I differ very much from some in regard to ensilage injuring milk. In fact I was one of the first to make complaint that milk made from silo food was injurious and unfit for use. In fact, I took a quart of the milk and carried it home to quart of the milk and carried it home to my house, and it was very easy for my family to discover that the milk was unfit for use, both by smell and by taste. Well, now the only remedy that is necessary to be used is simply this: To have a ventilator on the top of your silo, and that is the end of it. The reason why the milk was spoiled by using ensilage was the fact that the barn itself was scentad through and through and was scented through and through, and the scent that came from that silo penthe scent that came from that silo pen-etrated into the milk just as it did everything in the barn. After the ven-tilator had been put in the trouble was remedied. When the milk has stood near ensilage for perhaps an hour or two, it has become completely saturated with the odor and unfit for use. This is what I have said here previously and I presume it is not out of character to what I have said here previously and I presume it is not out of character to speak of ensilage. The overseers of the poor built a silo and the question was raised whether the milkman would take our milk. But he has taken it and never in a single instance has any fault been found. It is beautiful milk and he is very particular. He sells pure milk and very particular. He sells pure milk and insists that it shall be pure. If you will ventilate your silos you will have no complaint. We have no complaint now. It can all be easily obviated.

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The Poultry Yard.

Poultry Manure.

The American Poultry Yard has a good article on this subject. It says analysis has demonstrated that poultry manure contains many of the elements which render the best guano valuable as a fertilizer. It can be guaranteed perfectly pure, which is frequently not the case with commercial fertilizers. In a fresh state it contains quite a percentage of water, but when a due allowance has been made for this, it is well worth from one-half to two-thirds the price of guano. Yet those who have it for sale oftentimes find much difficulty in disposing of it at fair prices. Many farmers, who will readily incur a large bill for artificial fertilizers, seem unwilling to purchase poultry manure at any price. Why this prejudice against so valuable a fertilizer should exist has puzzled many poultry-keepers. It is probably due to two causes.

1st. Many men are ignorant of the proper use of poultry manure. Like any highly concentrated fertilizer, it needs to be used with care. There is a right way and a wrong way of using it, and if the wrong way is adopted the expected benefit is not obtained and the fertilizer is condemned as worthless. There are some men who cannot see any benefit from the use of guano. They have tried it in a wrong way, and they jump at the conclusion that it has no value because they didn't receive any. Their conclusion is about as wise as that of a backwoodsman who declares there can be no music in a piano because he cannot get it out. But if he were a Listz or a Reubenstein he would come to a very differferent conclusion. Men, who have carefully tested poultry manure in the right way, give it their emphatic approval.

2d. Poultry manure is frequently not properly saved. Wood ashes and quick lime are used under the roosts to keep the air pure, but though this may be a wise sanitary precaution it is very poor husbandry. Ammonia, one of the most valuable of the fertilizing components of the poultry manure, is set free by the action of the lime and the ashes, and its value as a fertilizer is thereby much impaired. Dry earth will answer very well for this purpose, but better still is common land plaster. These agents, and particularly the latter, fix the ammonia and other volatile fertilizing elements, and so render the manure of much greater value, while they are for sanitary purposes more effective than the lime and ashes. If the droppings are carefully saved and housed and treated to a sprinkling of plaster they will be found to be an excellent and powerful

If proper care is taken in the preservation of poultry manure so as to save all its valuable elements, and a proper use is made of it as a fertilizing agent, the foolish prejudice against it will disappear, and what now in many places is a drug in the market will be eagerly sought after by intelligent farmers and gardeners.

The Black Spanish Fowls.

Many persons keep towns aime tirely for the profit to be obtained from the sale of their eggs. In many respects poultry pays better than any other stock on the farm, as they obtain quite a large proportion of their food by their own exertions, and as a part of their food consists of insects they become in that respect beneficial to the farmer, besides the proit obtained from their eggs and flesh. The definite cash returns are measured, however, by the number of eggs laid and chickens marketed. For this reason the non-sitters as they are this reason the non-sitters as they are called, are preferred by many, as their production of eggs is more or less con-crawled up. Soon they all clustered on Rooms over Moore's Drug Store, Emporia, Kas.

tinuous, and can in a measure be calculated beforehand by any judicious and skillful poulterer. Singularly enough, all, or nearly all, the son-sitting breeds of poultry originated in the south of Europe or on the shores of the Mediter-

ranean.

The most highly-bred variety of this fowl is called the Black Spanish, which was brought to its present perfection by Holland poulterers. There are two varieties of the Black Spanish noticed in the poultry books—the White-Faced and the Red-Faced, or Minorcas. The latter is the heavier fowl, and in some cases appears to be hardier; but the White-Face lays as large and as many eggs, and having been the result of great skill and care in breeding, is the more beautiful variety of the two. As now bred, the White-Faced Black Spanish is a very beautiful bird, the lustrous black a very beautiful bird, the lustrous black color of the plumage contrasting vividly with the scarlet of the very large comb and wattles, and the peculiarly shining white of the ear lobes and face.

The principal value of the breed is its laying propensity. The eggs are pure white in color and very large. There is no breed of fowls, probably, that will lay more pounds of eggs in a year. With the exception of the moulting season and an occasional cold snap, Black Spanish hens will lay every week during the year. Of course, if eggs are expected in the winter, warm, comfortable quarters, warm drink, and suitable food must be provided, and if this is done very few weeks will pass without more or less eggs from a flock of these fowls. If intended for exhibition, as well as The principal value of the breed is its

If intended for exhibition, as well as for the production of eggs, warmth in winter is imperative, as the least frostwinter is imperative, as the least flost-ing of the comb would disqualify the bird. The standard by which poultry is usually judged is very particular on this point and by that standard the head, comb, wattles and face cover nearly half the 100 points necessary to perfec-tion. The comb must be absolutely uption. The comb must be absolutely upright in the cock, and must not fall over to one side in the hen. If any of the "teeth" or serrations of the comb are frozen off the bird is disqualified. The white of the ear-lobes extends entirely around the eyes in Black Spanish. When Spanish fowls are kept for their eggs the combs should be "dubbed," as are those of Game fowls. This should be done on the score of humanity, as the fowls would not suffer from frostthe fowls would not suffer from frost-ing, as they are almost sure to do event-ually if the combs are not cut.

Owing to the very high breeding of this variety of fowls great care must be exercised in introducing new blood, which often becomes necessary to prewhich often becomes necessary to pre-vent loss from in-breeding too closely. When carefully bred, so that the combs, faces, color and carriage are kept up to the present high standard, there is no fowl that presents a finer appearance on the lawn, or which is more profitable in the way of egg production. It is also a fine table fowl, resembling in this respect the French breeds. The only drawback to keeping Spanish fowls is the fact that a few Dominique hens must be kept to hatch and raise the chickens, as a Spanish hen seldom offers to sit.—N., in Country Gentleman.

The Busy Bee.

Hiving Swarms Where Two Come Out Together.

The Canadian Bee Journal gives its readers the benefit of some experience in hiving bees when two swarms come out together. "As we walked into one of our bee yards the other day a swarm was hanging on a tree several rods from the apiary. This swarm had issued very early in the morning, probably because the weather of the two previous days had been unfavorable for swarming. As we neared the center of the yard, which contained about two hundred colonies, we saw the foreman run and pick up a wire tent hurriedly and set it over a hive, about which he noticed indications of swarming. The tent was scarcely over the hive before the swarm commenced to issue. After the swarm had about half issued, and the entire wire tent, which is about three feet wide, five feet long and five feet high, was covered with bees, the queen came forth from the hive, alighted

the top of the wire. Then, in a minute more he raised the tent, lifted out the parent colony, and set another hive with combs in its place for the new swarm to occupy. Then by tapping the wire a little with the fingers on the outside, the bees came down and commenced to run into the hive. In a very few minutes they were all in the hive with their queen. The wire tent was tipped back, the hive carried to its permanent stand, and the parent colony set back on the old stand again. By this means he hived the new swarm on the old stand by merely setting the parent colony outside the tent to catch any stray bees that might return from the fields, and preyent the swarms from uniting with the one hanging on the tree. A tent like this in a yard where there are a good many strong colonies, seems now to be indispensable; for if two swarms issue at the same time, one may be caged by the wire tent and hived on its own stand, before the other has time to cluster on a tree.

"On the morning of the 17th, as the foreman went into our home yard with some of the students, he found a swarm issuing. He immediately caught the queen and hived them. The work was scarcely over when two more commenced to issue. While getting the wire tent to place over this one, two more rushed forth, and it was evident that they all intended to alight in one cluster. Before he got the tent over one, another started to issue. This one (the sixth) he secured from going in with the others. He might have got the tent over one of the other hives, but as they started to issue he rushed from one entrance to another, catching the queens. He succeeded in capturing three, slipping them into cages and dropping the cages into his pocket. Soon the four swarms clustered together on a tree; then he took a step-ladder, a dipper, and a light box with wooden sides and wire bottom, about 16 by 20 inches. Before going up the ladder, he placed hives at intervals in front of the placed hives at intervals in front of the tree; the queens he placed, one at the entrance of each hive. He then commenced dipping off the bees, holding the screen under to catch any that might chance to fall, handing each dipperful down to the students, who poured them in front of the hives, dividing them as equally as possible. In a few minutes they were all separated and running into their hives. While they were passing in the queens were liberated and allowed to pass in with the bees. Soon all the swarms were hived separately and set on their new stands, as well as if they had alighted stands, as well as if they had alighted in different clusters and been hived the same as single swarms. It seems to please the students to get instances like these for practice."



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A PLEA FOR GROVES.

If every prairie farm of one bundred and sixty acres had a ten acre grove of valuable trees on it, that grove would ask himself how much he would value such a grove as we are speaking about. timber for the farm. Fencing and fuel fuel, it would often furnish ready money in the way of fencing posts or railroad ties or lumber for other people. It may be that other substances will be used in time to come in place of wood for a great many purposes; indeed, that is the case now; but it is not because wood is not needed, it is because suitable wood is scarce. Iron is now used for many things that were made formerly wholly of wood. Paper, also, is so hf time of people now living will good any of its most useful purposes.

But aside from all considerations of commercial va ue, a grove of good timber trees has a farm value that can not to plant an equal arez iv, corn, but after be estimated in dollars and cents. How that the labor is less, because there is gladly would every purchaser of a praisonly one planting to be cone, and that rie farm buy with it a piece of good timber land it he could get it. There two weeks work all told for one man are a thousand and one ways of u-ing and team is all that will be needed. the supplies furnished by a grove. Besides tuel and fencing, it supplies ma one season. After the fourth or fifth terials for the making and repairing of year there will be little or no work refarm implements, and repairs about the quired except to thin the trees, and that farm buildings. In moving pens and will well pay for the labor in fuel and small stables, and in moving portable fences, the grove would be handy.

the summer and shelter in the winter, a rows an acre will contain 2,722 treesgrove is invaluable. Stock of all kinds s y 2 700 Ten acres, then, would condo better when they have the benefits of tain 7:00. One half of them, or 13 500, a grove both winter and summer,

is its action on the atmosphere, and its apiece, that would amount to \$1,350. influence in aiding the regulation and The removal would not cost anything and deposit of moisture. And as a if the farmer does the work in winter wind-break it is incomparable

an interest among our readers in the one-half of that amount to buy the seed subject. It is not nearly as much and do all the work that was done on trouble as some people think it is to the ground during all of the four or five raise trees and a great many of them in years that the work was going on. At a short time. The writer of this setout 5 cents a tree, and counting out all the some little trees fourteen years ago last deficient and worthless ones would pay spring that are now visible incles away. for all the work done. And then there They are large. He has grown walnut are 13,500 good, vigorous trees still trees eight feet high from the seed in standing, and they are ten to twenty three years, and he now has catalpa and feet high. Russian mulberry trees four to five

are ten feet across. ports of horticultural secreties, and he ground in ten years. gets onto a book occasionally that treats a place after due deliberation, consider- ond thinning leaves them eight feet ing all the circumstances and surround- apart both ways. They must be thinned careful about drainage. He becomes ment. enthusiastic and lays in a good supply

and any other variety that he may like and wish to raise. He prepares a bit of ground for the reception of this seed, \$3,375; the fourth thinning, counting and he does it with as much care as if the trees at \$2 apiece, gives \$3,364, and farm. Let every one that reads this ar. he were going to raise celery or some there are 1,682 trees worth \$5 apiece ticle, if he owns a farm without timber, other choice vegetable to surprise his left. wife with. He sows the seed and cultivates the young plants in rows with catalpa or black walnut. They are low It would afford a permanent supply of great care. He keeps the ground soft, mellow and clean, and is proud in the would be always at hand instead of ten fall of his trees that have grown from to fifteen miles away as is often the one to six feet high. The next spring case, and that would be worth a great his grove ground is in the best possible deal. But aside from the fencing and condition, and he takes a favorable time to make furrows and set out his young trees. If he is as wise as he will be two years later, he will plant his walnut seed in the first instance just where he wants the trees to grow, because walnut trees have long tap roots, and they are not easily transplanted so as to make a success of it. He will set the trees in check rows four feet apart, and he will cultivate the ground as well as he would an onion patch in the garden. Ninety-five used, and even straw. But not in the per cent. of the trees will grow. By careful cultivation and pruning, at the timber be superseded wholly by any- end of tive years, if he has ten acres in a thing. Nor, during the same time will grove, he has doubled the value of the regard to all its details and methods. timber be worth less that it is now for farm independently of all other causes of increase in value.

> As to labor, the first year more is required in the planting than is required is the first year. After the first year That will allow four good workings in

L t us tigure a little. In one acre of ground there are 3,560 square feet, and And then, for purposes of shade in if the are set tour feet apart in check would be removed the fourth or nich himself. But suppose it cost \$150; there The object of this article is to excite is still \$1 200 left, and it did not cost

When another four years pass, aninches in diameter, transplanted only other thinning will be needed, when two years ago last spring. Their tops one-half of the remainder must be removed for the benefit of what are left. If a man will only make up his mind They are then worth at least 50 cents that he must have a grove, a large part apiece. That is a very low estimate. of the work is done the instant that res- One-half of 13,500 is 6,750, and that at olution is formed if the individual is one 50 cents apiece, gives \$3,375, and leaves that means business when he passes a 6,750 good trees that will be worth \$1 resolution. When his mind is so made apiece at the end of another four years, up, then he begins to study the subject or \$6,750, and the grove is only twelve and collect information. He talks to years old. Put these three numbers to his neighbors, he asks questions of the gether-\$6,750, \$3,375, and \$1,350, and editor of his farm paper, he consults re- the sum is \$11.475 on ten acres of

But that is not near all. When the of trees and their propagation. And trees are set they are four feet apart. while he is doing these things he is get- The first thinning leaves them four feet ting his ground ready. He has selected one way and eight the other. The secings, as to soil, lay of the land, relative at least twice more and then they will position as to other parts of the farm be only sixteen feet apart, when there and particularly as to the dwelling house would be 1,6-2 trees left, worth \$5 grounds. He tests the soil, and is very apiece, or \$8,400 as a permanent invest-

To recapitulate: The first thinning

of seeds of catalpa, walnut, mulberry gives us \$1.350; the second thinning gives us \$3.375; the third thinning, counting one half the trees at \$1 apiece,

> These figures are very low for either enough to supply the amounts v . have named and leave an abundance of firewood for the farm besides.

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H. & ST. J., ST. JOSEPH.

Kansas Fairs.

The following counties have reported dates for nolding their annual fairs, giving name of Secretary and the place of holding the

The Western National Fair (Bismarck), Lawrence

September 7-12; Secretary, R. W. Cunningham. Anderson Councy Fair Association, Garnett, August 25-28; Secretary, M. L. White.

Bourbon County Fair Association, Fort Scott, October 6-9; Secretary, E. W. Hulbert.

Brown County Exposition Association, Hiawat A. September 8-11; Secretary, C. H. Lawrence.

Butler County Exposition Association, El Dorado, September 29 to October 2; Secretary, H. W. Beck. Chasa County Agricultural Society Cottonwood Fills, Sept inher 22-25; Secretary, E. A. Kinne.

Cherokee County Agricultural and Stock Association Columbus, September 8-11; Secretary, S. O. McDow-II. Clay County Agricultural Society, Clay Center, September 15-18; Secretary, Wart W. Walton.
Coffey County Fair Association Burlington, Sep-

tember 15-18; Secretary, J. E. Woodford.

Winfield, september 21-25; Secretary, D. L. Krets

ger. Dickinson County Agricultural and Industrial Ass ciation, Abilene, September 23-26; Secretary, H. H.

Doniphan County Agricultural, Horticultural and Mechanical Association, Proy, September 15-18; Secre tary. Thos. Heushall.

Elk County Agricultural Society, Howard, September 15-18; Secretary, J. V. Bear. Western Kansas Agricultural Fair Assaciation, Hays

City, September 22-25; Secretary, P. W. Smith. Franklin County Agricultural Society, Ottawa, September 28 to October 2; Secretary, John B. Shaffer.

Harper County Agricultural and Mechanical Asso ciation, Authory, September 1-5; Secretary, J. W. Clendenen. Harvey County Agricultural Society, Newton, Sep-

tember 22-25; Secretary, A. B. Lemon.

Jefferson County Agricultural and Mechanical Assoclation, Gskaloosa, September 23, 24 and 25; Secre-

Valley Falls District Fair Association, Valley Falls,

September 1-4; Secretary, M. M. Maxwell. Jewell County Agricultural and Industrial Associa tion, Mankato, September 29 to October 2; Secretary,

Geo. A. Bishop. Johnson County Co-operative Fair Association, September 22-25; Secretary, C. M. T. Hulett.

LaCygne District Fair Association, LaCygne, September 29 to October 2; Secretary, O. D. Harmon. Marion County Agricultural Society, Peabody September 1-4; Secretary, L. A. Buck.

Maishall County Fair Association, Marysville, September 22-25; Secretary, C. B. Wilson.

McPherson County Fair Association, McPherson September 10 to October 2; Secretary, J. B. Darrah. Miami County Agricultural and Mechanical Asso ciation, Paola, October 7-10; Secretary, H. M. Mc

Montgomery County Agricultural Society, Independence Sept-mber 16-19; Secretary, B. F. Devore,

Morris County Expesition Company, Council Grove, September 29 to October 2; Secretary, F. A. Moriarty. Nemeha Fair Association, Seneca, September 15-18; Secretary, W. E Wilkinson.

Phillips County Agricultural and Mechanical Asso cia ior, Phillipsburg, September 16-18; Secretary, J. W. Lowe.

Rice County Agricultural Society, Lyone, October

13-16; Secretary, C. W. Rawlins.

The Blue and Kansas Valley Agricultural Society Manhattan, August 25 28; Secretary, S H. Sawyer.

Saline County Agricultural, Horticultural and Me chanical Association, September 29 to October 2; Sec retary, C. S. Martin.
Arkansas Valley Agricultural Society, Wichita. Oc-

tober 5-9; Secretary, D. A. Mitchell. Sumuer County Agricultural and Mechanical Asso-

ciation, Wellington, September 8-11; Secretary, D. A Espy. Neosho Valley District Fair Association, Neosho Falls, September 21-26; Secretary, O. S. Woodard.

Decator County Exposition Society, Oberlin, September 23-25 Secretary, T. D. Bebb, Vallonia. Smith County Agricultural Society, Smith Center, September 23-25; Secretary, F. J. Pattee.

Kaw Valley Fair Association, St. Marys, Sept-mber 25; Secretary, A. J. Beak y.

Osage County Fair Association, Burlingame, Sej-tember 15-18; Secretary, A. M. Miner. Tue Kansas Central Agricultural Society, Junction

City, September 30 to October 2; Secretary, Chas. S. Rice County Fair, Lyons, October 6-9; Secretary,

C M. Rawlins.
Washington County Fair, Washington, September

29 to October 2; Secretary, C. W. Aldrich. Kansas Association of Trotting Horse Breeders

Topeka, Septem er 22-25; Secretary, Ruíus Bean. Parsons Fair and Driving Park Association, Par sons, September 15-17.

well Briving Park and Agricultural Associa tion, Caldwell, August 27-29; Secretary, John W. Nice P wnee County Fair and Stock Association, Larned September 23-26; Secretary, Geo A. Sells.

keno County Fair Hutchinson, October 13-16. Ottawa County Fair, Minneapolis, September 8-11

Secretary, W. H. Chappel. Centralia Fair Association, Centralia, October 6-7. Frankfort Fair Association, Frankfort, September

Linn County Agricultural and Mechanical Association, Mound City, September 21-25; Secretary, E. F.

Rush County Fair Association, LaCrosse, October 1-2; Secretary, E. F. Brown.

The Kansas City Fat Stock Show, Riverview Park Kansas City, October 29 to November 5; Secretary, Edward Haren

First Annual Poultry and Pet Stock Show, Kansa City, December 29, 1885, to January 1, 1886, inclusive; Scoretary, Edward Haron.

THE STRAY LIST.

HOW TO POST A STRAY.

BY AN AUT of the Legislature, approved Feb. 27, 100201. When the appraised value of a size, if the
ten dollars, the county Clerk is required with
fen days after receiving a certifiee lescription
or praisement, to forware by mail notice containin,
or aplete rescription of said strays, the day on white
e. sere taken up, their appraised value and the
and residence of the taken up to the Kansas Falm
Se together with the sum of fifty cent for each an
contained it said notice. And such notice sho
e published in the Farmer in three successive in
e. the pape. It is made the duty of the proprious, to every county clerk in the state to be kept on Fig.
on the office for the napsection of all persons interested
nitrays. A penalty of from \$6.00 to \$50.00 is affixed to
any failure of a Justice of the Farmer for a violation
its law

ow to post a Stray, the fees fines and pe

alties for not posting.

nbroken animals can only be taken up between its interest and of November and the 1st day of Apricept when found in the lawful enclosure of the taken

coept when found in the iswful enclosure of the taker No persons, except citizens and householders, calke ut a stray. If an animal liable to be taken, shall come upone promises of any person, and he fails for ten days flor being notified in writing of the fact, any othetizen and householder may take up the same. Any person taking up an estray, must immediate dvertise the same by posting three written notices it many places in the township, giving a correct ription of such stray. If such stray is not proven up at the expiration on lays, the taker-up shall go before any Justice of these of the township, and file an affidavit statinhat such stray was taken up on his premises, that he not drive not cause it to be driven there, that is an advertised it for ten days, that the marks an anals have not been altered, also he shall give a fulseoription of the same and its cash value. He shallso give a bond to the state of double the value of such the stray day.

lescription of the same and its cash value. He shallso give a bond to the state of double the value of suctary.

The Justice of the Peac all within twenty day come the time such stray was taken up, (ten days after setting) make out and return to the County Clerk certified copy of the description and value of such stray If such stray shall be valued at more than ten do are, it shall be advertised in the KANNAS FARNER! The owner of any stray, may within twelve month rom the time of taking up, prove the same by evidence force any Justice of the Peace of the county, having its interest of the time of the time of the time of the tractary and its delivered to the owner, on the order of the tractary and upon the nayment of all harges and cost. If the owner of a stray falls 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 householders to appear and appraise such stray, summons to served by the taker up; said appraiser, or two of hem shall in all respects describe and truly value said tray, and make a sworn return of the same to the Jucice.

They shall also determine the cost of keeping, and

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

In all cases where the title vests in the taker-up, in all pay into the County Treasury, deducting all cost taking up, posting and taking care of the stray me-half of the remainder of the value of such stray and person who shall sell or dispose of a stray, or take a same out of the state before the title shall have vest of in him shall be guilty of a relademeanor, and shall orfeit double the value of such stray and be subject the of twenty dollars.

trays for week ending 'ugust 26,'85

Davis county-P. V. Trovinger, Clerk. Davis county—F. V. Frovinger, Clerk.

Pony—Taken up by Wm Ward, of Jeffersen the August 8, 1885 one sorrel mare pony. 15 hands high white on left fore font coversed with tick-narks, very sid, branded K with two sides of a triangle attacheon front side in such shape as to nearly form a triangle of right she under; valued at \$25.

COLT—By same, one bay mare colt, supposed to be ivery old, white on right hind fout white under bell lemish on right fore leg above the knee; valued at \$16.

lemish on right fore leg above the knee; valued at \$10.

Joh son county.—Henry V. Chase, clerk.

MARE-Taken up by W. W. Butram, living 7 mileoutheast of Shewnee. June 18, 1885, one bright banare, 5 or 6 vears old, 15 hands high, marks of fisuitar on withers few white hairs in forchesid, knot ocide of left hind leg; valued at \$50.

MULE—Taken up by John Myers, living in the tow,
stawnee, one fron gray horse mule, about 4 years
dd, 2 hands high, rope brand on right hock, saddlark, snot on three feet; valued at \$20.

OW—Taken up by Albert Oochran living about?

alle-south of Olathe, one red an white spott d cor 8 years old, not giving milk, silt on unier sice and
nuch in end of left ear; valued at \$25.

Allen county—B W Duffy, elerk.

Allon county—R W Duffy. clerk,
MACE—Taken up by L. R. Pearson, of Salem to
ulv 19, 1885 one dark brown mare, 3 or 4 years old
the hind feet white wire cur on left fore foot; values
\$60.

* \$60. OLT—By same, one fron grav horse colt, 1 year old o marks or brands; valued at \$30. strays for wee' ending Sept 2, 1885

Osage county—C. A. Cottrell, clerk.
COW—Taken up by Joe Farley, of Melvern June 30
85 one red-roan cow, branded E very dim on right
in: valued at \$25.
BULL—Taken up by C. C. Leomis, of Scranton, Au
ust 1, 1885, one red bull, 13% hands high, indistinct
and on right hip, white on end of nose and under
selly; valued at \$30 50.

Woodson co nty—I. M. Jewett clerk.

FILLEY—Taken up by Thor. Heff-rn, of Owl Creek
p., July 25, 1885, one bay filley 2 years old, three
white feet and star in forehead; valued at \$60.

COLT—by same one sorrel colt, 1 year old, star in
orehead; value at \$30.

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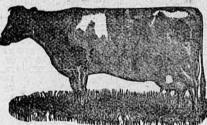
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1885; Incorporated, 1884.]

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Fifty miles south of Chicago, on the Chicago & Alton

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has been developed by adhering to these principles.

FRENCH COACH MORSES.

In deference to the demand of the public for a better class of carriage horses, I shall begin the introduction of French Coachers by the importation, to arrive at "Oaklawn" sept. 1st, 1886, of a numb-r of the finest specimens of this type so much admired by all who have visited France, Nowhere in the world can there be seen such magnificent carriage teams as at the chateaux of the great landholders of Northern France, and in the city of Paris.

I still believe, as always, that the most satisfactory results will be obtained by the general farmer by breeding the ordinary marcs of the country to the best Percheron Stallons; but as there are many who have marcs suitable to the production of carriage horses, and are not able to secure the services of suitable stallions, owing to their present scarcity, the introduction of bigh class individuals of this type will fill a long felt want. Visitors welcome. Carriages atall trains, 100-page Illustrated Catalogue free. Address

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The Beterinarian.

[The paragraphs in this department are gathered from our exchanges.—Ed. Farmer.]

Tuberculosis. - About a year ago one of my cows commenced coughing, and lost flesh steadily until last week, when she died. She was at first giving a good supply of milk, but went dry last summer. She was bred several times, but failed to get in calf. Can you tell what the trouble was? The description given indicates that the cow died of tuberculosis, a disease that is frequently met with among cattle that have been closely in-bred. It is regarded as incurable, and care should be taken to prevent its appearance, by not breeding from any animals showing a tendency in that direction, as it is hereditary. Medical authorities assert that the milk from cows affected with this disease is very unhealthy for children, and it is also claimed that the use of milk or meat from such cattle is a cause of consumption in the human

SMALL TUMORS.—I have a two-year-old mare colt that has got some hard lumps on the left side under the belly, right in front of the hind leg, from the size of a walnut to the size of a pea, the hind one being the largest, and getting smaller toward the front. They have been there at least six months and have been there at least six months and have not increased for the last four months. The colt is very healthy and thrifty. A horse doctor tried a tea of German camomile and oak bark to bathe the lumps, without effect; then he tried to bleed, but could not get the vein to swell. He struck twice and did not get a drop of blood. He claims the blood is impure. The colt is running in pasture all summer and was fed moderately on oats and hay all winter. When I first noticed the lumps last winter they were small and few, but increased in size and number for a while. At first were and number for a while. At first were also painful when I touched them, but are not so now. [The lumbs or small tumors described are of no consesmall tumors described are of no consequence, and will probably disappear as the colt grows older. If, however, you want to displace them, you can do so by applying the following ointment: Biniodide of mercury, 2 drachms; lard, 2 ounces; mix. After clipping off the hair from the lumps, rub well in for fifteen minutes. Keep the colt's head tied up so she cannot gnaw the part, and apply fresh lard every day for a week.] apply fresh lard every day for a week.]

AFFECTION OF THE BRAIN.-I have a two-year-old heifer that has been ailing for six weeks. The trouble seems to be in her head. She holds her head down, staggers when she walks, and will stand for hours in one place without eating. Her horns are cold and are chipping off. Have been told that it is "horn-ail," also have read that there is no such disease. ["Horn-ail" is most certainly a myth. The trouble is evidently some brain affection that it is impossible for us to exactly specify. Brain affections occur from a variety of causes, such as heat of the sun, blows on the head, parasites within the brain, tumors causing pressure on the brain, etc. They also occur in connection with many other diseases, especially with these of the directive organs. with those of the digestive organs. Pressure on the brain may often be relieved in the early stages by a good, active purgative, and ice or cold water applied to the head. The trouble menapplied to the hear. The trotton mentioned having existed for some length of time, probably an active purgative would not be advisable; but see that the digestive organs are in as good a state as possible, and give a saline laxative if the decisible, when tive, or purgative, if admissible—about half a pound to a pound of Epsom salts, with a little ground ginger, in a quart of water. Keep the animal from exposure to the heat of the sun. Apply cold water to the head, and give two or three drachms of the bromide of potassum twice a day in a little water as a drench, or give it in the food, if the animal will take it.]

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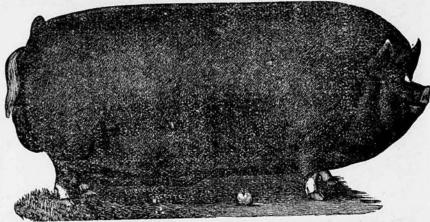
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I have for sale a fine lot of young pigs sired by Jayhawker 2503, Ottawa King 2885 (the champion hogs of
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breeders of fashionable strains. My sows are all firstclass and of popular straina, I also have an extra fine
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dams that have never been beaten in the show ring in
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pairs or trio of no kin, for sale. Herd has taken over
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any disease. Stock all eligible or recorded in Central
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Manhattan Herd of Berkshires



SOVEREIGN DUKE 3819. -- (From Life, by Lou Burk.)

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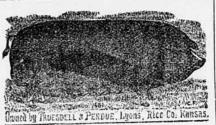
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with grade r sin- twest was a sucking Pig to a four-year-old Sow. Our Hogs are made up of the best blood that money can buy, and to prove our claims we will sell by measure, giving points; and we guarantee all stock to breed, or to be replaced by animals that will breed. Please ask for what you want.

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The Prince of Wales has been presented with a copy of the revised Old Testament. Albert Edward says he had no idea they were so strict in those days.

Europeans find the heat of Algeria a great obstacle to agricultural work, and, to avoid much of it, they propose making harvests at night by aid of electric light.

Edison seems to have so many patents on electricity that we expect to hear of his suing Providence shortly for making use of lightning without paying a royalty.

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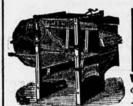
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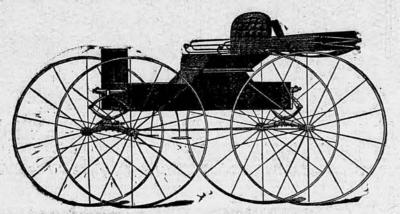
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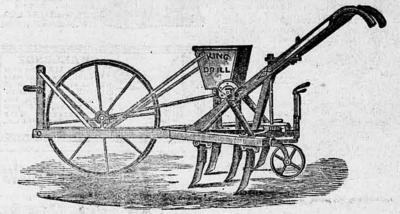
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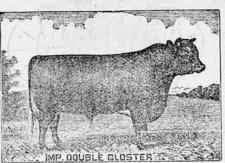
An invitation is extended to Local Military Companies to participate in a Comp titive Drill on Taesday, September 15th, for a sweepstake of \$100 to the bist of led company. A committee of U S army officers are invited to act as judges. Entry books now open at ffices of the fair.

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Five Cowe have averaged 20 lbs. 7 oze in a week. Nine Cows have averaged 19 lbs. 3/ oz in a week. Fitteen Cows have averaged 17 lbs 6 ozs, in a week. Six three-vear-olds have averaged 14 lbs. 3 ozs. in a week. Six three-vear-olds have averaged 14 lbs. 3 ozs. in a week. Six three-vear-olds have averaged 14 lbs. 3 ozs. in a week. Six two-year-olds have averaged 12 lbs. 2 oz. in a week. Six two-year-olds fentire number tested) have averaged 10 lbs. 3 10 ozt in a week. Fitten two-year-olds fentire number tested) have averaged 10 lbs. 3 10 ozt in a week. He entire original imported Netherland Samily of six cows (two being but three years oft) have averaged 175 lbs in 4 week. This is the Herr from which to get foundation stock. Piccs low for quality of stock. SITHS, POWELL& LAMB, Lakeside Stock Farm, Syracuse, N. X.

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