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#### Cattle Fevers in General, and Texas Fever in Particular.

Fevers in cattle the next ninety days will te common. It is well, therefore, to consider their causes and means of prevention.

In general it may be said, in all applicable cases, that conditions which will produce fever in humans will have a similar effect on animals. Extreme heat is one of the causes of fever, but it always operates in connection with other causes. If a person or an animal is in perfectly healthy condition, heat alone, as a disturbing element, will not be likely to leave any serious consequences. (It will be understood that we refer to the heat of the sun). Unless there is, also, overexertion in the heat, or unreasonably long exposure to it, or a hungry, thirsty or unhealthy state of the body, mental anxiety, or some other abnormal condition, there is no danger to be apprehended from the ordinary heat of the sun. Sunstrokes are never heard of among healthy persons who are not in some way unnaturally susceptible to the effects of heat. In crowded cities, where heat is made more intense by reason of the high walls and paved streets, laborers and delicate women suffer, and of these those are most susceptible whose health is affected by other causes, as loss of sleep, dissipation, use of improper food and drink, etc. Out in the open air of the country, where the people's habits are good, and where they eat wholesome food and drink pure water, and where the surroundings are healthful, there is no danger in the sun's heat.

Fevers come from combinations of unhealthy conditions, and these conditions are produced, oftentimes, by causes which are plainly visible. Deadly influences sometimes lurk about us unobserved, unsuspected, and for evil consequences therefrom result ing we are not responsible; but when there is a fever-breeding machine operating in full view every day and every hour, we are responsible for what injuries follow its legitimate effects. Accumulations of filth which give off offensive odors, great masses of decaying vegetable matter, exposed sinks and cesspools, mud-holes and ponds of muddy water, stagnant water in which weeds are rotting, unclean drinking water, unwholesome food; these are some of the visible causes of fever among people, and they op erate in the same way on animals, also.

Applying these suggestions to cattle, one can readily see how many cases of fever are produced. Animals that are in good health and have healthy surroundings, including good food and water, rarely have fevers coming from any local cause. But, as a man or woman, long exposed to the sun's rays in warm weather, are very susceptible to disease, so are cattle that go upon the open prairie in the morning and stay there all day, having no relief from shade or clean water. Let a man who has been out in the unob structed heat six or eight hours take a drink of water out of a mud-hole, or from water in rocks where washes from grass and weeds have come, and he will be all the worse for it. If, on the other hand, he reaches a re freshing shade, and after resting and cooling, he drinks clean, pure water, he is benefitted and restored. So it is with animals. When cattle are turned out on the prairie or in large fields without shade, and have only filthy water to drink, it is not that not good, is another fever-breeding ar- fever, either with their food or with their call reasonable, Generally the sales under

rungement, as is the standing or lying in muddy corrals or pens. Excitement or any kind of over-exertion of cattle in warm weather is dangerous. Long periods of hunger or thirst, also, are not good conditions. Indeed, if one will think a little about the matter and reflect upon his own experience and observation, he will take note of many things to avoid if he would have healthy

Contagion comes silently and unseen. That is one of the causes which are not recognized always before its deadly effects become visible. Still, there is such a thing as preventing contagion; or, perhaps, it would be better to say, it is possible to prevent the combination of influences from which at least one kind of contagion comes. There is a fever-producing contagion, as the influence of miasma. A malarial atmosphere is the region of fevers. In low latitudes it produces contagious fevers. If these malarial influences can be prevented, as it has been done, at least partially, in the city of Memphis, the contagion does not appear. If a marsh breeds fever, and the marsh is drained, fevers disappear in that locality. If cattle get sick by drinking stagnant water and by standing in it and making it still more filthy by their discharges, give them clean, fresh water in troughs, and at least one cause of disease is removed. If long exposure to the sun's rays produce discomfort and therefore predispose to disease, manage to have shade for the cattle. And apply the same rule to every other disturbing element. Whatever is dangerous avoid, if possible. By avoiding dangers we insure safety. By avoiding or preventing causes of disease, we insure health.

But there is a contagion still more subtle as it relates to cattle here. Although it may in the beginning be developed by influences such as are above referred to, as we find it and dread it, it comes to us on the march. Texas fever is a disease which is well known, but its peculiar nature and the peculiar methods of its contagion-that is how it is communicated, are not well understood. Its dangers are apparent, while means of prevention, short of permanent separation during all the season between spring and fall frosts, are not plainly recognized. A great many theories have been advanced as to the means by which Texas feyer is communicated, but most of them are not satisfactory. Indeed, some persons doubt whether there is a Texas fever such as is commonly so recognized. Cases have occurred in Kansas which no theory yet advanced will explain, unless there is a tweedle-dee and a tweedle-dum difference between Texas fever developed in the wake of herds of Southern cattle and Texas fever developed on grounds where Texas cattle had never been. Dr. H. J. Jetmers, of the Agricultural Department, thinks the "probable vehicle and medium of the pathogenic (disease-producing) principle is the saliva or slaver of the Southern cattle deposited by them, not only wherever they graze and wherever they drink, but also often dropping in strings from their mouths when on the march." Dr. Detmers believes the bacteria or fever germs are produced in the South, and he says that if the Southern cattle, before being shipped or started on their journey toward the North, take up on their native range or at any place between their Southern home and Northern strange that fevers follow. The eating of destination, but south of a certain latitude, dry, dusty grass, with water once a day and | the pathogenic bacteria of Southern cattle

water for drinking, the bacteria, of course, will first pass into the paunch where they find all the conditions (a suitable medium warmth and moisture) necessary to their existence and propagation. Ascending to the cavity of the mouth with the juices of the paunch when the animal is ruminating, they find a new and at the same time excellent medium in the saliva and mucous secretions, and thus it becomes possible not only that the bacteria retain their vitality, and that the same yastly increase in numbers, even if the journey of the cattle as to time and distance is a long one, but also that one herd of Southern cattle is able to infect a large territory (trails, pasture grounds, etc.,) at a long distance, a thousand miles or more from their native range."

Whatever may be the cause and means of propagating the disease, it is well to keep cattle away from all Southern stock that has come in since the first day of March last, and this until after the first day of November,

#### Buy a Thoroughbred.

The Western Rural, in a good article, not long since, said "one thing that stands in the way of a rapid improvement of our cattle is the difficulty of owners of very small herds getting a thoroughbred bull. The difficulty is more imaginary than real, but that makes no difference. The result is the same. The small farmer with a few cows cannot always see his way clear to purchase a thoroughbred bull, and so he goes on, year after year, breeding poor stock, to his financial injury. There is only one way to look at this matter, and that is to consider whether cattle that are worth a hundred dollars a head are not much better than those that are worth not more than half that amount; whether a cow that will produce two or three times more milk and butter than the cow we have is not very desirable: and if these questions are answered in the affirmative, and of course they must be, the question arises, whether a thoroughbred bull will not soon pay for himself, and leave a handsome profit, by producing such stock. It often seems to be forgotten that there are low-priced thoroughbreds. It would seem as if many never get it into their heads that there are bulls sold under the thousands, and indeed young bulls under the hundreds. They may not be and are not as desirable as some famous bull whose reputation is sufficiently established to make him a very highly desirable sire. But they are good bulls, and when we cannot get the very best we had better take what we can get. Then there is still another view of the matter: A bull of great reputation might never be able to pay for himself upon a small farm, while a bull of less reputation, though perhaps equally as good, would. The reputation of the animal often makes him exceedingly valuable at the head of a professional breeder's herd, though really he may not be any better than a lower-priced animal. The owner of a few cows may not want, and probably would not want to advertise himself through the possession of a noted bull. He probably would simply desire to improve his stock for his own use. Now such a man will ordinarily find no difficulty in securing a bull within his means, and would find the purchase very profitable. At almost every sale animals are knocked off at prices which even the opponents of high prices would

a hundred dollars are not reported, but there are many such sales.

"But it is the duty of the farmer, his duty to himself, to improve his cattle by some means. The farmer is conducting his business to make money, and if he does the best he can he does not make more than he can conveniently take care of. But if he neglects the profits of stock-raising, he throws away the most profitable branch of his business. There is money in good stock. Peo-ple who go into the business intelligently and conduct it intelligently do well. Therefore, the first thing that a farmer whose stock is below standard should do is to breed it up. If he has the means to buy a thoroughbred bull, buy it. It cannot be invested to better advantage. If he cannot buy a thoroughbred, get a grade. That will likely prove to be a great improvement upon common stock. But a very simple and easy way by which a thoroughbred bull can be procured is for the farmers of a neighborhood to club together and get one. A good animal could thus be got at very small indiyidual expense, and the results would be grand. If men can be brought to consider this matter as its importance demands, we shall not be so slow in breeding up our cattle; and as rapidly as we seem to be doing this, taking the entire country together, we are progressing slowly. In some sections of the country nothing is found but scrub stock, though there may be abundance of evidence of general enterprise and thrift in other directions. We remember a few years ago of riding through one of the most beautiful sections of country we ever saw. It was in the East. The houses bordered on the elegant; barns were large; fences good; crops luxurious. Everything indicated good farming, except the cattle. In a ride of miles we did not see a herd of cattle that we would hardly take for a gift. The thought that came to us was-it is astonishing that men who give so much evidence of general enterprise, should utterly neglect this important and profitable branch of the farm. Now, if we should have gone to these farmers and said we can tell you how to double your profits on your corn, they would have listened eagerly, and if what we said was reasonable, they would have adopted it. Yet we could have told them how to double and quadruple their income from the cattle yard. Strange as it may seem, however, though we could have given indisputable evidence that our assurances in that respect were well founded, probably they would not have believed us. And this is one cause why so many do not give attention to the improvement of their stock. They do not realize how much profit there is in good stock, and nothing that can be said seems to fully impress them with the fact.

"But we do earnestly hope that every reader who has not thus far given so much will delay to do so no longer. Men are making money from breeding good stock, and we wish every reader of our journal to do likewise. There is all the time an increasing demand for the products of our improved breeds of cattle, and all the time the demand for the products of scrub stock is growing less. Every day the taste for better beef is being educated, and we must keep up to the popular demand if we would reap the highest benefit. Delay in such a matter is expensive, and if the foundation of a better herd of cattle seems to us costly, our word for it that an outlay in this direction will prove exceedingly profitable.

## The Stock Interest.

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

october 28—Hon. T. W. Harvey, Turlington, Neb. November 3 and 4—Inter-State Short horn Breeders, Kansas City Fat Stock Show. .E. Ward & Son. Short-horns, first Friday of Kansas City Fut Stock Show.

### About the Sheep Industry.

The KANSAS FARMER has frequently urged that it is not good policy to go out of the sheep industry when one is prepared to take care of sheep. Times of depression ought to serve as guideboards, not as scarecrows. Unload what cannot be safely carried so as to make the rest secure. Like sailors, let us unload what we cannot carry through the storm, so that we may be the better able to carry what is left. This is a good time to go down to the foundation of the business and make things secure and then build up again more carefully. Business will be more brisk after a time, but the day of wild speculation in sheep is past. It must settle down to safe business methods.

We have just been reading a sugesrecently in the Farm and Fireside. The writer shows some figures and makes reasonable deductions from them. The statistics of the National Agricultural Department show that there was a considerable decrease in the number of sheep in the United States during 1884. instead of the rapid increase which had January 1, 1885, being estimated at 50,360,243, against 50,626,626 for January 1882, and 40,765,900 for 1880. Heavy losses have also been reported from Australia, from drouth and famine.

Meanwhile there is no reason to doubt that the human population of the coun- tected. try is increasing in its normal ratio, nor that woolen clothing is as much in demand as ever. Indeed, all experience shows that the consumption of an article of such prime necessity as wool rapidly increases when the price is lowered, and the only reason for anticito buy. This stagnation will soon pass away, however, and with better times will come a livelier demand for wool, while the increase of population on the one hand, and the decrease of flocks on the other, will have so adjusted the supply of wool to the demand that we shall see another era of fair prices and good profits for the wool grower.

Meanwhile the low prices at which sheep are selling afford a golden opportunity for that improvement of the flocks of the country which shall place its sheep industry upon a broader and firmer foundation than it has ever bemethods or remove their flocks to cheaper lands.

There is no occasion, however, for the latter alternative. In the so-called "Black-top Merino" exists the foundation stock for a breed of sheep which shall combine every desirable excellence wool grower who will but turn his and condensing the gasses. Warm attention to this sub-breed, and will water injections should be freely administered, and the same treatment given externally to the abdomen as before mentioned. profit to his purse to be realized by intelligently developing its combined excellences of wool and flesh instead of confining his energies to the mania for growing two hides upon one carcass, and a debilitated one at that, will unquestionably reap a rich reward.

This is but one of the many openings through which a lover of sheep may successfully pursue his chosen industry. In the development and improvement of the mutton breeds, and in the production of a new breed which shall be not inferior to those we now have in meat production, but shall at the same time be more valuable as wool-producers, there is abundant room for work which shall be both profitable and pleasurable.

Our cattle industry, even when conducted only for meat production, needs no tariff protection. In free-trade England sheep husbandry thrives, because the sheep is bred there primarily as a meat producer, and is so carefully tive and helpful article which appeared bred for this purpose that mutton commands a higher price in the English markets than beef.

The combined area of Great Britain and Ireland is less than that of Ohio, Indiana and Illinois, and yet the statistics of the United Kingdom show 26,-068,354 sheep in 1884, against 24,319,768 in 1882-a gain of nearly two millions marked previous years, the number on in two years, and a total sheep population one half as great as that of the entire United States, and more than 1, 1884, 49,237,291 for 1883, 45,016,224 for three and one-half times that on the combined area of the three States named, notwithstanding the 22 to 45 per cent. tariff on foreign wools by which the American wool-grower is pro-

### Colic in Horses.

(Concluded from last week.)

Flatulent colic is another form of colic, and the symptoms much resemble the preceding form, but it is more continuous, there not being the marked pating any different experiences in this case is that the loss of crops and the general stagnation in other lines of business curtail the ability of the people to buy. This stagnation will soon pass it; any obstruction in the intestinal canal may also cause it. An excessive-ly inflated state of the abdomen also often occurs before death from any of the diseases of the digestive organs. Among the causes of this affection may be mentioned food that easily undergoes fermentation, such as roots, green clover, or an excessive feed of boiled grain, especially if the digestive organs have been in rather a weakened state have been in rather a weakened state from a long drive or an unusual length of time of enforced abstinence, and the animal may have eaten it too eagerly, fermentation taking place and gas forming in place of the proper digestive process going forward. Any cause that may obstruct the intestinal canal and arrest or prevent the natural onward course of its contents, such as intestinal calculi, infraction, tumors, strangulation of a purgative, but more active stimulants than those before mentioned

producer of no mean rank, and the fine- object of chemically combining with

Great patience is required in treating severe cases of colic. It often happens that some hours will elapse before manifestations of decided relief are obtained, and it is of great importance that the veterinarian, or whoever may be for the time endeavoring to relieve be for the time endeavoring to relieve the poor animal in its agony, should exercise a calm judgment, and not be excited or hurried by the impatient remarks of any "knowing" onlookers and wise-acres, into administering any "nostrum" or doing anything but what a prudent thought for the welfare of his patient would substantiate. In reference to aloes, it may be an hour or two, or even up to several hours before decided relief is obtained after their addecided relief is obtained after their administration. But it is a mistake to suppose that because it requires persuppose that because it requires perhaps twenty to twenty-four hours to purge a horse, that it is not till after that time that relief is obtained. The length and volume of a horse's intestines prevent the speedy action of a purgative being manifested, but the aloes acts by causing an increased flow of fluid into the intestinal canal, which lubricates its lining membrane and softens its contents, and these effects take ens its contents, and these effects take place in a comparatively short time after their administration, and long before their action as a purgative is apparent. Practitioners of human medicine might object to the administration of aloes, on account of their supposed irritating effects, and advocate oil in preference. But the digestive organs of different species of animals are differently organized, therefore the same class of purgative does not act in a similar manner on all—for instance, as a rule aloes is the best purgative for the rule, aloes is the best purgative for the horse. Epsom salts for the ox tribe, and jalap for the dog. This, of course, is liable to some modifications. In the horse, oil is a very uncertain purgative; when it does act, merely acting mechanwhen it does act, merely acting mechanically, and not causing the increased flow of fluids into the intestinal canal as before described of aloes, and we believe it is quite as likely to cause griping in its action.

Various veterinarians have at differ-Various veterinarians have at different times strongly recommended the operation of puncturing the colon, and by this means evacuating the confined gas. This has, by others, been called a "last resort," a "desperate remedy," etc. From personal experience we can speak most favorably as to the compartive safety of the operation, when protive safety of the operation, when properly performed; and from careful post-mortem examinations, made with the express view of investigating the effects of the operation, we have in no case discovered anything that would deter us from again performing it. But it must be remembered that the removal of the gray and the control of the gray and the gas is not the removal of the causes of its formation. In certain conditions, of its formation. In certain conditions, no doubt, by simply evacuating the gas, the digestive process may again go forward, or if the distention be so great that death from suffocation or from an intestinal rupture is feared, the animal's life may be prolonged by its performance, and this may be favorable by allowing time for the purgative or other measures to act in removing the originallowing time for the purgative or other measures to act in removing the original cause of the trouble; but if the formation of gas is the result of a fatal disease, the evacuation of it could of course, at the best, only prolong the life of the animal for a very short time. Colic from impaction of the large intestings the command colon especially. fore known. Our bitter experience of to-day is showing us that over the settled portions of the country the pursuit of sheep husbandry for the wool alone must be abandoned. However much some of our fine-wool growers may regret to abandon the one-idea system by which they have built up flocks, yielding magnificent fleeces, it is two husbanders or remove their flocks to stimulants than these hoses were methods or remove their flocks to disposition to stretch himself, with the stimulants than those before mentioned for that form of the disease may be necessary. Sulphuric ether in place of the nitrous ether, or carbonate of ammonia, or ammonia and turpentine, well sheated with linseed oil. These are agents that may be expected to assist in dissipating the gases formed. We have little confidence in the various compounds of chlorine and other agents. of a fine-wooled sheep, with such qualities of carcass as shall make it a meat that are sometimes advised, with the sometimes advised, which is a sometimes advised, which advised advised

a result if the trouble is not removed. With regard to the treatment, we be-lieve in these cases it is advisable to give a full aloetic purgative at once, and in the form of a ball; the obstruction being so distant from the stomach there is not the danger of that viscus not acting on the ball, as in the preceding forms of colic; and by giving aloes in solution there is a greater liability for the medicine to be passed off by the kidneys.

Objections have been made as to the propriety in this disease of administering purgatives by the mouth, claiming that the contents of the stomach and small intestines may be, by this means, forced onward into the already overburdened large intestines, and rupture with an escape of their contents into the abdominal cavity, and of course death may be the result. Prof. Williams advocates this view, and advises an aloetic solution as an enema, which is to be repeated if immediately expelled. High as is the authority, and highly as we estimate Prof. Williams' writings, we must say that we should be loath to place our whole dependence on the action of the aloetic enema as a purgative, especially as in the majority of cases of this nature, injections, no mat-ter how small or how carefully exhibited, are immediately expelled; but we may endeavor to expedite the action of the ball by the use aloetic enemas. The action of a purgative may often be excited by stimulants, such as carbonate of ammonia, alcohol in some of its forms, or nux vomica, or its alkaloid strychnia. The administration of strychnia either by the mouth or hypodermically, is often very successful in exciting the action of a purgative when exciting the action of a purgative when the bowels are slow in responding; and we believe this mode of treatment is, as a rule, far better than continually repeating the purgative.

Cases of impaction, or constipation of the nature described, are usually lingering, and relief may not be obtained for ten or twelve hours, and sometimes much longer; but we believe if reliance much longer; but we believe if reliance is placed on the purgative, as mentioned, which may be supplemented by injections, with the external applications to the abdomen, as in the other forms of colic; the percentage of deaths will be small. A little walking exercise in cases of this nature may be sometimes beneficial; also, perhaps a little beer as a stimulant, but the less opiates we administer, the better, as they have a tendendency to retard the they have a tendendency to retard the action of the purgative. In this or in either of the other forms of colic, it is most decidedly wrong and contrary to nature to persist in keeping the poor animal standing or walking, or to pre-vent him from lying down—by lying down he obtains some relief, and of course selects the position that is easiest to himself.

It should be borne in mind, that a purgative should not be repeated until at least twenty-four hours have expired, and that in all cases after recovery the food should consist of bran mashes or boiled food, and nothing of a harsh nature be allowed until the organs have recovered their tone.

These three descriptions of colic are but a small proportion of the number of dissases of the abdominal viscera, in which colicky pains are manifested.

### Red Polled Cattle.

Mr. Henry F. Euren, editor of the Red Polled Hand Book, is, or ought to be good authority on the history and merits of Red Polls. We give a few extracts from an article prepared by him, as we find them in the Canadian *Breeder*:

the headquarters of the Suffolk Polled stock, though he found the breed spread over the whole country. In this "Survey" we get the best accurate description of the breed. Though Arthur Young makes no note of Norfolk Pelled cattle, yet advertisements of sales held in and from the year 1778 prove that dairies of such animals were numerous in the county, and that they extended from the northern boundary of the Suffolk "headquarters" well into the centre of Norfolk.

An old Elmham tenant, who survived

until 1872, recollected Red Polled cattle on the estate so long ago as 1780. At Shipdham, they were greatly valued from a date certainly as early, At Necton they were kept from a remote period. The predominant breed in Norfolk at that time (see Marshall's "Rural Economy of Norfolk"—notes written from 1780 to 1782) was, however, "a Herefordshire breed in ministure," and "the favorite color a bloodred, with a white mottled face." Marshall fortunately preserves for this generation a record of the process by which the excellences of this now extict old Norfolk blood-red stock have been combined with the proverbial merits of the Suffolk Red Polled. He says there were several instances of the Norfolk breed being crossed with Suffolk bulls, and that the result was "increase of size and an improvement of form."

A Holkham tenant, Mr. Reeve, of Wighton—of whom Arthur Young speaks as an agriculturist whose huswighton—of whom Arthur Young speaks as an agriculturist whose husbandry merited attention—co-operating with his neighbor, Mr. England, of Bingham, would appear to have thought more highly of this cross than did Mr. Marshall. The result of his selection was first shown in public at the Norfolk Agricultural Society's meeting, held at Swaffham, July 16, 1808, at a time when the rage for Devons was nearly at its height on the Holkham estate. The official report of the meeting was advertised. It spoke of the bull shown by Mr. J. Reeve as follows: "This breed is a new kind, partaking of the best qualities of the Suffolk and the Devon and the old Norfolk. It has no horns, is of a true Devon or Norfolk red, and will get stock to raise fat to about fifty or sixty stone, with as little coarse meat as can be expected." Mr. Reeve could have had no part in drafting this report, or the word Devon would not have been found there; for an old letter in my possession, written by one who well knew Mr. Reeve's likes ing this report, or the word Devon would not have been found there; for an old letter in my possession, written by one who well knew Mr. Reeve's likes and dislikes, says "he certainly never used a Devon bull," and the writer goes on to speak of Mr. Reeve's "antagonism to that breed. This "new kind" of cattle was carefully selected and bred by Mr. Reeve until September, 1828, when his dairy numbered twenty-five head, the bull then sold, being "one of the most perfect animals in the kingdom." An equally judicious breeder was Mr. G. B. George, of Dunston, and afterwards of Eaton, near Norwich. Some of the animals were within a few years introduced into Suffolk, for crossing with the red cows there. The mixture of the two yarieties has continued to this day, so that it would now be difficult to find stock which could be said to be free from its influence. Occasionally the evidence of the old Norfolk variety is made manifest by reversion, though the instances of this are now becoming the evidence of the old Norfolk variety is made manifest by reversion, though the instances of this are now becoming very rare. Another cross was tried some forty or fifty years ago by Mr. Moseley, of Glenham, Suffolk. He used a Scotch bull for one generation, and then reverted to the original Suffolk breed. The evidence of this experiment is yet occasionally seen in the few tribes which trace back to the cows of this once famous herd. Another experiment was made with a Devon cross; but the result at the end was found to be unsatisfactory. In fact, the animals whose breeding is known to have been true during the last fifty years or more give the best results now. COLOR.

COLOR.

Color was, in the opinion of the old fanciers of Suffolk Polls, a distinctive characteristic. Mr. M. Biddell, speaking in 1862, could "recollect the time when no other color than red would be looked at in a Suffolk cow," and in this discussion on color it was admitted that "the red cow had established the breed." Previous to that meeting of the Suffolk Agricultural Society there was a ten-Agricultural Society there was a tendency being developed to get rid of the color distinction. This may have arisen from the remembrance of the fact that "red and white, brindle, and a yellowish the color with the co cream color," had also been accepted colors, as representing good milkers. In Norfolk, as I have said, red was the favorite color, but in a few districts sheeted polls were preferred. The fashion has during the last forty years set steadily in one direction. The red, which is now recognized as the mark of excellence, is a deep, rich blood-red, and the spot of white on the udder, which Mr. George held to be a sign of good breeding, has been crossed out. The predominance of the deep red shows plainly the degree in which the old Norfolk breed has affected the polls, and, on the contrary, the freedom from cream color," had also been accepted old Norfolk breed has affected the polls, and, on the contrary, the freedom from horns and from white on the udder and these cars in the West.

face is evidence of the persistence of the Suffolk Polled character. The amalgamation of the two varieties—Norfolk Polled and Suffolk Polled—may with certainty be traced from the year 1846. Both counties henceforth met in an honorable competion in the show yard. Purchase of the handsomest and truest bred red stock became the desire of all the breeders. The result of this zeal was soon made evident, not only at county shows, but also at the Royal meetings. The breed, however, continued to be without a name until the Royal Agricultural Society, at the Battinued to be without a name until the Royal Agricultural Society, at the Battersea meeting in 1862, opened classes for "Norfolk and Suffolk Polled" cattle. This cognomen was thereupon adopted by Norfolk, but it was never accepted by the Suffolk Society, whose practice it has been either to provide classes for "Suffolks," or—and this very recently—for "Suffolk and Norfolk Polled." This breed now having its Herd-Book, and being distributed far beyond the boundaries of the two counties, is henceforth aries of the two counties, is henceforth to be known as the "Red Polled," and the Register as "The Red Polled Herd-

The standard description reads as

ESSENTIALS.

Color.—Red. The tip of the tail and the udder may be white. The extension of the white of the udder a few inches along the inside of the flank, or a small white spot or mark on the under part of the belly, by the milk veins, shall not be held to disqualify any animal whose sire and dam form part of an established herd of the breed, or answer all other essentials of the "Standard Description."

Form.—There should be no horns, slugs or abortive horns. Color.-Red. The tip of the tail and

POINTS OF A SUPERIOR ANIMAL.

POINTS OF A SUPERIOR ANIMAL.

Color.—A deep red, with udder of the same color, but the tip of the tail may be white. Nose not dark or cloudy.

Form.—A neat head and throat. A full eye. A tuft or crest of hair should hang over the forehead. The frontal bones should begin to contract a little over the eye, and should terminate in a comparatively narrow prominence at the top of the head.

In all other particulars the commonly accepted points of a superior animal are taken as applying to Red Polled cattle.

DIVERSITY OF TYPE.

Many of the old Suffolk Polled cattle were much more massive beasts than the Norfolk and this characteristic is yet in evidence. They could easily be picked out from a collection by the comparative coarseness of the head—a difference which is now but seldom manifest. In other points there were few divergences in character between the two varieties. the two varieties.

WEIGHT.

At the close of the last century the animals when fattened seldom exceeded fifty stone (of 14 pounds.) This is the report both of Marshall and Young. The former says:—"The superior quality of their flesh, and their fatting freely at an early age, do away with every solid objection to their size and form." There has been great improvement in this matter of weight for age, while there has been no deterioration in the quality of the flesh; butchers now, as then, purchase the Red Polled readily, because they die well, and the meat is equal to the best Polled Scot or Highlander. Highlander.

PREPOTENCY OF THE POLLED TYPE.

Red Polled cattle are found to lay on Red Polled cattle are found to lay on flesh rapidly on pasture of the poorest character, where other breeds need to have an additional supply of richer food. The dry temperature of Norfolk and the poor pasture seem more particularly to have had their effect on the size of the stock. The first cross—stock sired by a Red Polled bull, no matter of what horned breed is the dam, is usually red in color and polled in character. Such animals, when fat, in character. Such animals, when fat, are eagerly bought by the butcher. I have recently seen a number of such cross-bred, the produce of a Red Polled bull and a pure-bred Jersey cow, and the cross is an excellent one. Some of the animals had a few silver hairs mixed with the red coat; all were polled, and all had black noses.

Use Mica Axle Grease, the best made.

Mann Boudoir Cars.

The Wabash is now running the celebrated

### BREEDERS' DIRECTORY.

Cards of three lines or less, will be inserted in the Breeder's Directory for \$10.00 per year, or \$5.00 for six months, each additional line, \$2.00 per year. A copy of the paywill be sent the advertiser during the consimuance of the

#### HORSES.

FOB SALE—On good terms, two Imported Clyces-date Stallions, with books of 1885 included. Both sure breeders. Can see their coits. For particulars address Bobert Ritchey, Peabody, Kas.

THE IMPORTED CLYDESDALE STALLION—
"KNIGHT OF HARRIS" (No. 995 Clydesdale studbook), will stand this season at the stable of the undersigned, three miles west of Topeks (Sixth St. road).
He is one of the best Clyde horses in America. Sire Chiefiair, grandsire, the great show stallion Topeman. To insure, \$25.

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

POLAND-CHINA SWINE. Young stock for sale. Inspection and correspondenvited.

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

JOHNSON & WILLIAMS, Silver Lake, Kas., breed ers of Thoroughbred Short-horn Cattle. The her 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 & Br'nze T'rkys

DEXTER SEVERY & SONS, Leland, Ill., breeders of Thoroughbred Holstein Cattle. Choice stock for sale, both sexes. Correspondence invited.

CEDAR-OROFT HERD SHORT-HORNS.—E. C. Evans & Son, Propr's, Sedalia, 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, Shawnee county, Kas. We now have 116 head of recorded Short-horns. If you wish a young bull or Short-horn cows do yourself the justice to come and see or write us.

BROAD LAWN HERD of Short-horns. Bobt. Patton. Hamlin, Kas., Prop'r. Herd numbers about 120 head. Bulls and Cows for sale.

A LTAHAM HERD. W. H. H. Cundiff, Pleasant Hill, Cass Co., Mo., has fashionable-bred 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 cerumical.

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

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. POWELL, 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 Thon-bead of herd. Young Stock for sale. Satisfaction guar-anteed.

### CATTLE AND SWINE.

COTTONWOOD FARM HERDS, J. J. Mails, Manhattan, Kansa

Breeder and shipper of Short-Horn Cattle and Berkshire Swine. Orders promptly filled by express. The farm is four miles east of Manhattan, north of the Kansas river.

DR. A. M. EIDSON, Reading, Lyon Co., Kas., makes a specialty of the breeding and sale of thoroughbred and high-grade Short-horn Catiz Hambletonian 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.

CLENVIEW FARM. G. A. Laude, Humboldt, Kas. breeds Short-lorn 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 Run, Pottawatomic Co., Kas., breeder of Thor-oughbred Short-horn Cattle, Cotswold Sheep, Poland-China and Berkshire Hogs. Young stock for sale.

### SWINE.

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

POLAND-CHINA SWINE AND MERINO SHEEP. The swine are of the Give or Take, Perfection, and other fashionable strains. Stock for sale in pairs 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 com-U plete history of the Poland-China Hog, sent free on application. Stock of all ages and conditions for sale. Address J. & C. STEAWN, Newark, Ohio.

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

J. A. DAVIDSON, Richmond, Franklin Co., Kas., breeder of Poland-China Swine. 170 head in herd. Recorded in A. and O. P.-C. R. 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, Topeks, Kas., breeder and shipper of Thoroughbred Poland-Chins Swine. Recorded in Ohio Poland-Chins Record. My breeders are second to none. Write for what you want.

W.M. PLUMMER, Osage City, Kansas, breeder o Recorded Poland-China Swine. Also Light Brah ma Chickens. Stock for sale at reasonable rates.

F. W. ARNOLD & CO., Osborne, Kas., breeders of P. Poland-China Swine. Stock recorded in O. P.-C. R. Combination 4989 (first premium at State fair of 1884) at head of herd. Stock for sale. Estisfaction

POLAND - OHINA SWINE — Of the most noted strains. My breeders are from herds that can show more prise-winners than any other in the United States. Liberal reduction to persons ordering in next thirty days. Photograph of a few breeders free. Address me before buying elsewhere Special rates by express, [Mention this paper.] H. H. Walls, Bedford, Indiana.

#### POULTRY.

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

ONE DOLLAR per thirteen for eggs from choice Ply-mouth Rock fowls or Pekin ducks. Plymouth Rock cockerels \$2 each. Mark 8. Salisbury, Box 981, Kansar City, Mo.

NEOSHO VALLEY POULTRY YARDS.—Estab-lished, 1870. Pure-bred Light Brakmas, Partridge Rochins, Plymouth Rocks. Eggs in season. Stock in figl Write for prices. Wm. Hammond, box 190, Emporia, Ke.

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

EGGS FOR SALE—From Light Brahmas, Buff Co-chins and Plymouth Rocks, 18 for \$1.75; 22 for \$3. Also Pekin Duck eggs, 11 for \$1.75; 22 for \$3. Also Emden Geese eggs. 6 for \$2: and Bronze Turkey eggs. 12 for \$3. W. J. McColm, Waveland, Shawnes Co., Las.

M. ANDERSON, Salina, Kas. Bronze Turkeys, Plymouth Rocks, Pekin Ducks, Shepherd Pupples d Jersey Cows and Heifers. Write for prices.

PLYMOUTH ROCK CHICKENS. Eggs for hatch-ing, from the finest breeding pens in the United States. Fowls have taken first premium wherever shown. Eggs asfely packed for shipment. Setting of 13, 82.50. Fowls for sale in the fall. Address E. W. Stevens, Sedalia, Missouri.

MRS. T. W. RAGSDALE, Paris, Mo., breeder of Light Brahma Chickens and Bronze Turkeys—the best. Eggs, \$2.50 for 18.

GEO. H. HUGHES, North Topeka, Kas., 014 first prizes (Felch and Pierce, judges,) on W. F. B. Spanish, & P. Rocks. Eggs, \$3 for for 13; 26 for \$5. Prepared shell, 100 bs. \$3. 12 egg baskets, 90 cts. Poultry Monthly, \$1.

#### MISCELLANEOUS

OSWEGO TILE FACTORY.—H. C. Draper, Prop'r., oswego, Kas. Best shipping facilities over Missuri Pacific and Frisco railroads. 43 Write for prices.

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

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

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

PROSPECT FARM.—H. W. McAfee, Topeka, Kas.
For sale cheap 15 registered Short-horn bulls, 1 to 3
years old. Also, Clydesdale horses.

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

### ABERDEEN-ANGUS CATTLE!

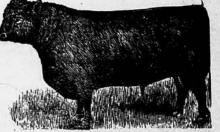
A few tip-top YOUNG BULLS, at low figures and on easy terms. We offer a few CHOICE FEMALES from our show herd, for sale for the first time. Two well-bred SHORT-HORN COWS at a bargain. Two standard-bred

### HAMBLETONIAN STALLIONS,

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

J. S. & W. GOODWIN, JR.

### F. MCHARDY,



### Breeder and Importer of

GALLOWAY CATTLE,

My herd numbers over one hundred hea", consisting of the best and purest strains of blood. It is composed of animals bred by the most noted bre-ders of Souland—the Duke of Buccleuch, the Earl of Galloway, Thos. Bigger & Sons, Cunningham, Graham, and others. I have thirty head of young bulls, fit for service, sired by the noted bull MacLed of Drumlaurig; also thirty high-grade females of different ages that I will sell reasonably. Time given to suit purchaser, if desired.

### Correspondence.

Southwestern Kansas.

Kansas Farmer:

I have just returned from a trip through the southern part of Edwards county, that portion known as the Indian Reserve. I have frequently heard of the rapid settlement of that section and the thrift and industry of the new settlers, but was not prepared for the surprise. As soon as I crossed the sand-hill range and came in sight of the more level country, it seemed literally spotted with new frame and board houses with here and there a sod house. Cornfields on every hand; oats, millet and sorghum, with a good supply of vegetables; everything looking fine. Corn, especially, is making a magnificent growth. The ground is all new, very little having been broken earlier than last fall. The people are a different class from what you find in any other portion of Kansas. They are a hard-working and seemingly temperate people, rather close-fisted for Western people. They are just such people as get rich minding their own business. The town of Wellsford is a model town and is destined to be the center. Everything has a substantial appearance and the people mean business. Every acre of land is taken and quarter section claims are selling from \$800 to \$1,200, with but little improvements on them. Their worst drawback is depth to water, from 100 to 170 feet, but no lack when they get to it and excellent water in every instance.

As you go west to Brenam (a small town of but few houses,) the land is hardly as good and further on to Greensburg. 1 saw a great many good fields of corn and oats, but not such as is seen on every hand about Wellsford. Greensburg has not the appearance of thrift that Wellsford has, although it is considerably larger, and I think it will be quite likely to take a back-set. There seems to be too much speculation about the people. I do not say this from any ill-feeling towards any individual in or around the place, for the short stay that I made was very pleasant and the few that I met were very sociable and friendly, and I may be mistaken in my opinions.

On my return from Brenam north, I found a wide strip of sand hills unsettled which will make to some industrious people good homes. There are thousands of acres of good land among those hills, but the sandy ridges are unpleasant to travel over. Then east down the north side of the Rattlesnake hills is another fine section of land settling fast with an industrious class of people.

Occasionally we came to old settled places which can be seen and known from a long distance by the trees growing around them. These always look cozy and inviting, especially in a very warm day. Tree planting is becoming more common and will soon be generally practiced. Trees of all varieties seem to prosper the last two years, either from cultivation or from climatic changes. Small groves are to be seen now in all directions, especially in the sand hills. I saw some walnut trees five or six years old hanging full of nuts. Southwest Kansas is bound to come out and I think will be in time the most desirable portion of the State.

W. J. COLVIN.

Larned, Pawnee county.

Things in McPherson County. Kansas Farmer:

Having seen nothing in your very welcome and much esteemed paper from this county for some time, and thinking we were left out just because none of our citizens would take the matter in hand and write you, I concluded to give you some items which I trust may be of interest to some of your readers.

We are done harvesting. V heat was very had last year. Potatoes and garden vegetables are splendid; corn is clean and looking well, the prospect now is nearly as good as at this time last year, and then this county beat its previous record for corn. Fruit will be scarce, excepting the small fruits, and a light sprinkling of apples; peaches having been winter-killed.

I have been very much interested in the

self. In the spring of '84, I sowed a small quantity of orchard grass, tall meadow oat grass, Johnson grass and alfalfa, each in separate plots. The orchard grass looks like it would be fine for pasture, but it did not yield much hay; the oat grass yielded considerable hay, but don't look as though it would amount to much for pasture without being mixed with some other grass; the Johnson grass I thought was the very thing for pasture until our cold winter came on and killed it root and branch. The alfalfa alone we pronounced worthless in this section of country for any use, unless it would be for hog pasture, and it gets too hard and woody for that purpose.

This spring we tried our old Illinois standard grasses-timothy and clover mixed; it seems to be making a good start, but don't know how it will succeed. I hear of large meadows of it doing well in the county. I think the subject of grasses one of prime importance to us Kansas farmers, and we eagerly read and try to digest all we see on that subject by Kansans; and the farther west the experiments the more interesting the reading. We have met with a (to us) new enemy to our apple and plum trees. It is a very large pale green worm. I measured one that was nearly four inches long and three and one-half inches in circumference. Like caterpillars, they devour the leaves, or at least eat out the stems, thereby cutting the leaves off. One of our physicians has one preserved in alcohol and labeled "The What-is it."

The web worm was here, but did us no

We have seen and heard a great deal about the unjust exactions of the railroads, but we expect to be fleeced the worst by the pooled elevator men to whom we sell our grain right at home. They get the first nip at us and they bite deep, so that between them and the railroads we don't have much left.

I say success to the Kansas Farmer, and think every wide-awake farmer in the State ought to take it. JAMES C. BETHARD.

Wheatland, McPherson county.

#### State Fair of Kansas.

As the fair association at Topeka have decided not to hold a fair there this year, the people of Peabody, a prosperous, enterprising town, have decided to hold the State Fair of 1885 at that place, on the beautiful and commodious grounds of the Marion County Agricultural Society. This Society is one of the few organizations of the kind which has always paid its premiums in full, without discounts or pro rating, and they propose to continue to "fight it out on that line."

Peabody lies in a rich agricultural district, and the outlook for exhibits at the State Fair is most excellent. The live stock departments will be particularly well repre-

Thursday, September 3d, has been set apart as Soldiers' Day, on which occasion there will be a grand rally of the soldiers of the southwestern and central portions of the State. A grand parade, drill, camp fire at night, and other interesting features will be participated in by all soldiers present. Peabody Post No. 89 of the Grand Army of the Republic extends a cordial invitation to all soldiers to be there, and will see that ample accommodations may be had. Hundreds of tents will be pitched on the grounds near where the camp fire will be held.

Governor Martin will be present and deliver an address, and other prominent public

men will participate. Reduced rates for passage and freight will be given by the railroads.

For catalogues or other information, address the Secretary, Dr. L. A. Buck.

### Topeka Stock Yards Sales.

The representative sales of live stock at the Topeka stock yards for the week ending light and not a very good quality; a great July 25, was not so large as usual. Several many fields were not cut at all. Oats are ponies sold from \$38.50 to \$50; horses from only fair, nothing near such a yield as we \$70 to \$110; 67 hogs, averaging 220 lbr., sold at \$3.60; heifers averaged \$21; 19 sheep weighing 85 to 95 lbs., sold at \$2.80 to \$3.10; milk cows sold from \$30 to \$40; 11 calves of 160 to 210 lbs. weight sold at 4½ to 5 cents; 8 three-year-old steers sold at \$38, 12 others sold at \$38, 75 to \$3.90; 68 fat cows, ranging in weight from 940 to 1130 lbs., sold at from \$2.85 to \$3.60.

T. E. Bowman, Topeka, makes loans on articles in the FARMER on tame grasses and been experimenting some with grasses myGosaip About Stock.

The receipts of live stock at the Kansas City stock yards last week were 728 horses and mules, 1,285 sheep, 8,816 cattle and 53,079

Forty-six Jersey cattle sold for \$9,060, an average of \$197, at the recent public sale held at Lexington, Ky., by Messrs. Wallace, Sparks & McClintock.

The Aztec Land and Cattle Company own ,000,000 acres of land in Arizona, and they recently purchased 35,000 head of stock cattle with which to stock their ranges.

The closing-out sale of the entire herd of Holstein-Friesian cattle, owned by Buchanan Bros., of Chicago, resulted in an average of \$138.27 for eighty-seven head. The stock was mostly young.

Charles Roswurm, of Morris county, has made another fine investment. This time he purchases forty high-grade Short-horn heifers and cows at \$100 per head from the Blue Valley Herd of W. P. Higinbotham, Man-

Attention is directed to the advertisement swine and high-class poultry of D. H. Webster, Austin, Cass county, Mo. Mr. Webster's reputation as a successful Western breeder of first-class stock is excellent. Send for his catalogue and circulars.

Miller Bros., Junction City, the noted Poland-China breeders, appreciate the fact that no better pure-bred swine are raised in the United States than the Kansas bred stock. They make the following offer: "We will give \$100 for a sow pig that is better than one we have of our own breeding."

The largest pork producer in Massachusetts is John Cummings, of Woburn. He has now on his place 2,500 hogs and pigs, and generally kills 2,000 each year. He buys all his feed. He purchases the buttermilk of a Boston firm, who churn fresh milk that has not been skimmed. He buys Western corn and grinds it on his premises

T. L. Miller & Co.'s sale of Hereford cattle at Chicago last week resulted in making an average of \$252.07 for eleven bulls and \$378 average for ten females. The cattle were a good lot. The highest priced bull, Prairie Chief 7277, sold to Shockey & Gibb, Lawrence, Kas., for \$400. They took another bull for \$250, and two fine heifers for the neat sum of \$910.

Neosho County Democrat: Since the first day of last January Messrs. Baxter and O'Bryan have shipped from this place sev enty-one loads of stock-553 head of cattle and 3,097 head of hogs, receiving therefor and distributing among our farmers the sum of \$53,986.65. Their profits on the above sales, owing to fluctuations in the markets, were comparatively small.

The proclamation of President Cleveland giving the stockmen of the Cheyenne and Arapahoe reservations in the Indian Territory orders to remove their cattle in forty days, is regarded at this time of the year as entirely too little time, and will, if accomplished, result in great loss of cattle and money. The stockmen are making efforts to have the time extended.

The Breeder's Gazette tells about the private sale of the noted imported Hereford bull, Archibald (6290), for \$6,000, to C. K. Parmlee, of Chicago. The bull was imported last fall by Geo. Leigh & Co., Aurora, Ill., and since that time has been at the head of the herd of J. O. Curry, successor of Geo. Leigh & Co. Archibald now weighs 2,350 pounds, and has had a successful career in England as a show bull.

Ottawa county, Kansas, has the Minneapolis Horsemen's Association. The capital stock of the corporation is \$5,000, divided into 500 shares of \$10 each. The directors are seven in number, and for the first year consist of John Triplett, F. C. Rees, W. A. Roberts, F. M. Sexton, L. A. Henry, A. Gilbert and R. A. Merryfield. The object of the corporation is to advance the interests of the horsemen of Ottawa county and improve the breeding of horses for all purposes.

The latest report says the cattle ranch area embraces about 1,365,000 square miles, hence constitutes nearly 44 per cent. of the total area of the United States. The report indicates that 7,500,000 cattle graze on the green plains east of the Rocky mountains, and that their value reaches upward of \$200,-000,000. It is rather a significant fact that leave your place; if you do he will be

nearly 21,000,000 acres of this grazing land, together with the herds thereon, are owned by English syndicates.

During the soldiers' reunion in Topeka, September 22 to 25, more than ordinary attractions will grace the speed ring. Mr. R. Bean, of this city, is making an effort that bids fair to be successful to secure Jay-eyesee and Phallas. Should this fail, an unusnal effort will be made to secure Maud S., the queen of the turf, or Johnson, the most famous pacing horse in America.

The Canadian Breeder very sensibly remarks that it is the farmer's business to raise young colts, and develop them into fully mature and thoroughly broken horses. When he has accomplished this he should put his horse on the market, and start the training of another and younger one to fill its place. In this way he can always have a good horse to sell at good figures.

Manhattan Mercury: Several farmers about Wabaunsee went in partnership last spring and bought a very fire Norman stallion from the famous Dunham farm, paying \$2,200 for him. These men have been breedof the "Excelsior Herd" of Poland-China ing large farm horses for several years, and they say it pays. There is such a demand for them that the breeders find it difficult to keep enough on hand to do their own work. We have good horses now, but the best are none too good for Kansas farmers.

> The Kansas Cowboy very properly says that now is the time for those cattlemen who experienced losses on their ranges last winter and have on hand less cattle than thei ranging facilities will accommodate, to replenish their decimated herds. Stock cattle are now cheap. In a short time their value will inevitably appreciate. It is a good time to buy when prices are low down. When the prices of cattle begin to advance then the demand will increase. That is the way of the world.

This State now has within her borders quite a number of fast horses. The following from the Junction City Republican is an example: Dr. Dutcher attended the races in Salina last Friday and Saturday. He says there were some of the best horses at this meeting he ever saw in the West. The following horses were among those present: Don, record 2:22; Harry P, record 2:2914; Ruby, record 2:32. The purse for which these horses contested was only \$100. The following is the position of each: Harry P, 1, 1; Ruby, 2, 2; Don, 3, 3; time 2:321/2, 2:301/4. Such horses as these are too good to contest for a \$100 purse.

John Carson, Winchester, Kas., is building up quite a breeding establishment in Jefferson county. The Era says: A visit to his stables convinced us that he owns one of the best herds of Clydesdale and Norman horses in Kansas. Many of them were imported diract from Europe by Mr. Carson himself, who made a trip across the ocean only a short time ago for that purpose. He loves good stock, and will keep no other if he can help it. His stallions have been a source of vast income to him the present season, and the colts from his horses always give the best of satisfaction and command admiration and high prices wherever put on the market, and are a source of considerable income from the premiums they command at fairs and general exhibitions of such stock.

The well-known and successful breeders of Poland-China and Berkshire swine, Randolph & Randolph, Emporia, Kas., give the following good advice to all their customers on how to care for a pig: "In cold weather give him warm dry quarters to sleep in, and room to exercise at all times. Feed corn sparingly, as it is too heating for a young growing or a breeding animal that you do not want to fatten. Give plenty of good slops mixed with mill feed. Milk is the best for young growing hogs. possible give some milk-the more the better. The hog needs some vegetables and ought to have them in season to vary his diet. Corn and water alone will soon burn up a pig. Never allow your boar to run with sows in heat; if you do he will soon be worthless. The vigor and increase in number of pigs to the litter will repay you for the care of the boar. One service in our opinion is better than more. Don't use a young hog much; it will hurt his growth, and when grown he ought not to serve more than one sow per day and that must not be kept up long. Don't allow your boar to

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spoiled. Make a pet of your hog by being gentle and kind with him and he will not get cross. You can drive a hog like a horse with a little careful handling; if you beat him he will soon want to fight you, and if he fights you he will whip you. If you have to strike him do it so that he will remember it. There is no animal that responds to gentle treatment more readily than a hog. You ought to have all your breeding animals so tame that you could walk up to them any place; it saves lots of money, trouble and corn. Our breeding hogs are all as quiet and gentle and as easily managed as milch cows are. If a hired man abuses a hog, he is forthwith discharged."

The Kansas Pacific or "Golden Belt" circuit of horse meetings and fairs was arranged yesterday, and embraces the six largest and best towns in central Kansas. \$12,500 is offered in the speed ring, the most liberal string of purses ever offered in the State by any circuit. The circuit is as follows: Concordia, August 25th to 26th; Salina, September 1st to 3d; Minneapolis, 8th to 11th; Clay Center, 15th to 18th; Abilene, 22d to 25th, and McPherson, September 29th to October 1st. Large sums are offered as prizes for the products of the field and farm. Low rates are offered and freights guaranteed on the railroads. The circuit is a national trotting association. The officers of the circuit are J. H. Brady, of Abilene, President; E. D. Randall, of Concordia, Vice President; H. L. Cunningham, of Salina, Secretary. Entrees close August 22d.

Phil Thrifton sends the following items: The London Live Stock Journal announces the publication of the Herd Book of the National Pig-Breeders' Association of England. The volume contains 106 pages, and records the pedigrees of 274 pigs, consisting of Berk shires, Blacks, Large Whites, Middle Whites, Small Whites and Tameworths, arranged in the above order. From an American standpoint this seems like a small number of pedigrees with which to close the first volume of a national record intended to embrace all the useful breeds of pigs in England....The Council of the Polled Cattle Society, Bauff, North Britain, at a late meeting resolved to offer a gold medal valued at £10 to be competed for at the Chicago Fat Stock Show in November next, and to be awarded to the best steer, cow or heifer of the Aberdeen-Angus breed..... Heber Humfrey, Secretary of the British Berkshire Society, writes that the first volume of the British Berkshire Herd Book is nearly half printed. The work will be as near uniform in appearance with the American Berkshire Record as can be, only different in color. Breeders on this side of the Atlantic await its issue with much interest....While the most of the farmers of central Illinois are rejoicing in the prospect of more than an average corn crop, in some localities more rain seems to be needed to bring the crop forward. And yet along the river in Sangamon county hundreds of acres have been overflowed this month, and the growing corn almost wholly destroyed....The hay and oats harvests are about over. Both have done well and the product generally saved in good condition. All who can afford to do so are stacking and holding their wheat for better prices.

Our wool market is now in better condition than at any time since the opening of the season. Continued advances in values have caused purchasers to take firm hold, and out of a receipt to date of more than has been received in any two former years, not one sack is on hand unsold. Eastern rates declined to-day from \$1.05 to 60 cents, causing a further advance in values of 1/4 cent per pound, with all grades quick sale. criticisms of Chicago concerning the bogus wool in St. Louis, are erroneous, and the outcropping of envy, as our records show that St. Louis sold more wool during the month of June than Chicago will sell during the entire season. St. Louis sells for spot cash all round, while Chicago imitates Boston. Our sales to-day of 68,000 pounds, were at the following prices:

Fancy medium light fine......191/a22 ice......181/2a19 Carpet. 10% a14
Heavy and buck 12% a15
Burry, 3 to 5 cents per pound less.

HAGEY & WILHELM, St. Louis, Mo.

The Law of Oleomargarine.

The Kansas Farmer has several times briefly discussed the law concerning the manufacture and sale of oleomargarine. It has been and still is our opinion that there is and can be no law against the making of any useful or healthful thing. Things which are hurtful, as tainted food, may and ought to be prohibited. Oleomargarine, when made according to standard methods, is as pure as the purest butter. It was originally invented and made as a substitute for butter during the siege of Paris, when the people of that city had no butter and could not obtain any without smuggling it through the lines of an invading army. A chemist solved the problem, using clean fats and milk or the best butter. By putting these substances through various changes, he produced oleomargarine, as pure as any animal product can be. It is not only pure, but it is wholesome, and by many persons it is not distinguishable from butter. There can be no law then against the making and selling of such a substance. The only thing that can be done is to require that manufacturers and dealers mark the article so that all persons interested may know what it is. Of course there is spurious oleomargarine as there is spurious butter, and against such there is or ought to be law in every State and Nation.

Some time ago our readers were informed that the Court of Appeals in New Yorkthe highest court in the State, decided a case of this kind. We give below a brief history of the case and some extracts from the opinion of the court showing the reasons upon which the court based the decision.

The indictment charged the defendant with having, on the 31st of October, 1884, at the city of New York, sold one pound of a certain article manufactured out of divers oleaginous substances and compounds thereof, other than those produced from unadulterated milk, to one J. M. as an article of food, the article so sold being designed to take the place of butter produced from pure unadulterated milk or cream. It is not charged that the article so sold was represented to be butter, or was sold as such, or that there was any intent to deceive or defraud, or that the article was in any respect unwholesome or deleterious, but simply that it was an article designed to take the place of butter made from pure milk or cream.

On the trial, the prosecution proved the sale by the defendant of the article known as oleomargarine, or oleomargarine butter; that it was sold at about half the price of or dinary dairy butter. The purchaser testified that the sale was made at a kind of factory, having on the outside a large sign, "Oleomargarine." That he knew he could not get butter there, but knew that oleomargarine was sold there. And the District Attorney stated that it would not be claimed that there was any fraudulent intent on the part of the defendant, but that the whole claim on the part of the prosecution was that the sale of oleomargarine as a substitute for dairy butter was prohibited by the stat-

On the part of the defendant it was proved by distinguished chemists that oleomargarine was composed of the same elements as dairy butter; that the only difference be tween them was that it contained a smaller proportion of a fatty substance, known as butterine; that this butterine exists in dairy butter only in a small proportion-from 3 to 6 per cent.-that it exists in no other substance than butter made from milk, and is introduced into oleomargarine butter by adding to the oleomargarine stock some milk, cream or butter, and churning, and when this is done it has all the elements of the natural butter; but there must always be a smaller percentage of butterine in the manufactured product than in butter made from milk. The only effect of the butterine is to

troverted or questioned, oleomargarine, so far from being an article devised for purposes of deception in trade, was devised, in 1872 or 1878, by an eminent French scientist, who had been employed by the French Gov-

ernment to devise a substitute for butter. Further testimony as to the character of the article being offered, the District Attorney announced that he did not propose to controvert that already given. Testimony having been given to the effect that oleomargarine butter was precisely as wholesome as dairy butter, it was, on motion of the District Attorney, stricken out and the defendant's counsel excepted. The broad ground was taken at the trial, and boldly maintained on the argument of this appeal, that the manufacture or sale of any oleaginous compound, however pure and wholesome, as an article of food, if it is designed to take the place of dairy butter, is by this act made a crime. The result of the argument is that if in the progress of science a process is discovered of preparing beef tallow, lard, or any other oleaginous substance, and communicating to it a palatable flavor so as to render it serviceable as a substitute for dairy butter, and equally nutritious and valuable, and the article can be produced at a comparatively small cost, which will place it within the reach of those who can not afford to buy dairy butter, the ban of this statute is upon Whoever engages in the business of

manufacturing or selling the prohibited proproduct is guilty of a crime. The industry must be suppressed. Those who could make a livelihood by it are deprived of that privilege. The capital invested in the business must be sacrificed, and such of the people of that State as can not afford to buy dairy butter must eat their bread unbuttered.

The references which have been here made to the testimony on the trial are not with the view of instituting any comparison between the relative merits of oleomargarine and dairy butter, but rather as illustrative of the character and effect of the statute whose validity is in question. The indictment upon which the defendant was convicted does not mention oleomargarine, neither does the section (section 6) of the statutes, although the article is mentioned in other statutes which will be referred to. All the witnesses who have testified as to the qualities of oleomargarine may be in error, still that would not change a particle the nature of the question, or the principle by which the validity of the act is to be tested.

Section 6 is broad enough in its terms to embrace not only oleomargarine, but any other compound, however wholesome, valuable or cheap, which has been or may be discovered or devised for the purpose of being used as a substitute for butter. Every such product is rigidly excluded from manufacture or sale in this State.

The provisions of this last act are covered by one of the acts of 1882, above cited, and the provisions of the repealed acts in relation to dairy products are covered by substituted provisions in the act of 1884, but the statutes bearing upon fraudulent simulations of butter, and the sale of any such simulations of dairy butter are left to stand. Further statutes to the same effect were enacted in 1885. Consequently if the provisions of section 6 should be held invalid, there would still be ample protection in the statutes against fraudulent imitations of dairy butter, or sales of such imitations as genu-

It appears to us quite clear that the object and effect of the enactment under consideration was not to supplement the existing provisions against fraud and deception by means of imitations of dairy butter, but to take a further and bolder step, and by absolutely prohibiting the manufacture or sale of any article which could be used as a substitute for it, however openly and fairly the

to their promoters. If the argument of the respondent in support of the absolute power of the Legislature to prohibit one branch of industry for the purpose of protecting another with which it competes can be sustained, why could not the oleomargarine manufacturers, should they obtain sufficient power to influence or control the legislative councils, prohibit the manufacture or sale of dairy products? Would arguments then be found wanting to demonstrate the invalidity under the constitution of such an act? The principle is the same in both cases. The numbers engaged upon each side of the controversy cannot influence the question here. Equal rights to all are what are intended to be secured by the establishment of constitutional limits to legislative power and impartial tribunals to enforce them.

Illustrations might be indefinitely multiplied of the evils which would result from legislation which would exclude one class of citizens from industries, lawful in other respects, in order to protect another class against competition. We cannot doubt that such legislation is violative of the latter as well as of the spirit of the constitutional provisions before referred to, nor that such is the character of the enactment under

which the appellant was convicted.

#### Imitation Butter.

The extent to which the making of imitations of butter has moved the people may be inferred from the facts set forth in a recent report of investigations made by direction of the British government. The foreign office collected, through its representatives at Paris, Berlin, Vienna, Rome, St. Petersburg, Brussels, The Hague, Copenhagen, Stockholm, Madrid and Lisbon, information respecting the legislation of foreign countries on the subject of oleomargarine and other spurious butters. The papers thus obtained were presented to Parliament, but in reply to inquiries, the President of the in reply to inquiries, the President of the Board of Trade intimated that the government would take no further steps. Evidently it is a hard subject to tackle, whether here or abroad, says the National Live Stock Journal, of Chicago.

The Austrian government replies, that while rigidly excluding ham, lard, or any pork from America, on the ground of trichina, no questions are asked regarding, or restrictions placed on, the importing of butter.

or restrictions placed on, the importing of butter.

In Belgium the government pays no attention to the subject, leaving all regulations of that and kindred matters to the Communal Council. In 1875, the market authority there promulgated an ordinance requiring every vender of margarine or other butter compound to surmount his stall with a sign of "artificial butter." The Danish government has no special law on the subject, regarding its regular laws as affecting the sale of any commodities which are liable to be injurious to health as sufficient. Recently, however, a law was passed, to have effect for three years, which forbids the manufacture, sale, or export of artificial butter of any sort, unless packed in distinctive vessels and marked "Margarine." The French law forbids its sale without a printed label, stating the nature or composition of the mixture. This law has not yet been in force a year.

In Germany and Italy no special law ex-

a year.
In Germany and Italy no special law ex-In Germany and Italy no special law exists, and both governments are wondering what they had better do. In Spain and Sweden no special legislation has been taken, although in the latter country they profess to regard existing laws as quitoufficient to stop the sale of any compound injurious to health. Holland's reply reveals the non-existence in that country of any legislation on the subject, and is described as "curt." a fact perhaps due to the fact that during 1884, out of a total import of butterine into Great Britain of 733,342 cwt., Holland sent 658,027, and in the first four months of 1885, 274,000 cwt. out of 370,000, Russia has no occasion for such laws, no Russia has no occasion for such laws, no artificial butter being imported into the

country.
The foregoing facts were gathered by the Journal from the Farmer and Chamber of Agriculture Journal, and that paper, in reference to Russia, on the same subject, says a "large French company has factories both at St. Petersburg, Moscow and Odessa, milk. The only effect of the butterine is to give flavor to the butter, and it has nothing to do with its wholesomeness; that the olear substances in the oleomargarine are substantially identical with those produced from milk or cream. Prof. Chandler testified that the only difference between the two articles was that dairy butter had more butterine; that oleomargarine contained not over 1 per cent. of that substance, while dairy butter might contain 4 or 5 per cent., and that if 4 or 5 per cent., and the substance, while dairy butter might contain 4 or 5 per cent., and that if 4 or 5 per cent., and the substance, while dairy butter might contain 4 or 5 per cent., and that if 4 or 5 per cent. of butterine were added to the oleomargarine there would be no difference—it would be butter, irrespective of the sources—they would be the same ive of the substitute might be avowed and published, to drive the substituted article from the market, and protect those engaged in the manufacture of dairy products against the competition of cheaper substances, capable of being applied to the substances of food.

The learned counsel for the respondent frankly meets this view, and claims in his points, as he did orally upon the argument, and that if 4 or 5 per cent. of butterine were added to the oleomargarine there would be no difference—it would be butter, irrespective of the sources—they would be the same in the concett those character of the substitute article from the market, and protect those engaged in the manufacture of dairy products against the competition of cheaper substances, capable of being applied to the substances of the substitute article from the market, and

### The Some Circle.

### How Easy It Is.

How easy it is to spoil a day!
The thoughtless word of a cherished friend,
The unselfish act of a child at play,
The strength of a will that will not bend,
The slight of a comrade, the scorn of a foe,
The smile that is full of bitter things—
They all can tarnish its golden glow,
And take the grace from its airy wings.

How easy it is to spoil a day
By the force of a thought we did not check;
Little by little we mould the clay,
And little flaws may the vessel wreck,
The careless waste of a white-winged hour,
That held the blessings we long had sought,
The sudden failure of wealth or power,
And lo! the day is with ill inwrought.

How easy it is to spoil a life—
And many are spoilt ere well begun—
In home light darkened by sin and strife,
Or downward course of a cherished one;
By toil that robs the form of grace,
And undermines till health gives way;
By the peevish temper, the frowning face,
The hopes that go and the cares that stay.

A day is too long to be spent in vain;
Some good should come as the hours go by;
Some tangled maze may be made more
plain;
Some lowered glance may be raised on

high.
And life is too short to spoil like this;
If only a prelude, it may be sweet;
Let us bind together its threads of bliss,
And neurish the flowers around our feet.
—The Watchman.

Eternal youth is pushing upwards still!

Is the load lighter from the toil of ages?

Does it get near the summit of the hill?

And will ye toil on ever, O ye sages?

When to the top the giant mass is ta'en,

Will it fall back and crush you? nay, to

Perchance were worse than this sad work and pain.
Push on! O mortals onward

Immortal love is watching o'er each pang— Though ye are blind—from life's obscur-

When on the verge the quivering mass doth

hang.
Love will appear and your poor hearts be
free!
What do we know—if 'tis not love is near?
What hope have we—but that love will

The sullen surges of life's ocean drear,
A glorious sunrise! Break, O morning, break!

Such is the patriot's boast where'er we roam: His first, best country is ever his own. —Goldsmith.

### Trust in God.

"I will be with thee; I will not fail thee nor forsake thee. Be strong and of a good courage."—Joshua 1, 5-8.

Are they not good words? Have they not comforted many, many people? When weary, disheartened, and feeling as though it was not worth while to live, they turned to the Good Book and beheld these words. Have they not felt that God was talking to them, "I will not fail thee nor forsake thee." Does it not encourage you? you had faith to trust in those words, and been rewarded by a ray of sunshine crossing your path? or have you read those words and not believed in them, but instead, complained and mourned over your hard lot? Has it brought you any peace, any happiness to do like that, making yourself and every one else miserable? Could you not put faith in those words and be a little more cheerful? If you could, you don't know how much better you would feel. You would, indeed, be strong and have more courage.

What did God put those words there for if not to comfort and console you? Did he all things earthly would fail you? and it was Jennie does that?" that it ceases to sound for this He meant for you to read those

not; for away up there in the blue sky He | ble failure. is watching and caring for you all the time. If He has to give you sorrow, rest assured it is for your own good. He has tried to soften it by giving you those words. Over the busy city, over the country towns, over the broad prairies, and over all the world, He looks down upon them and loves them with a great and mighty love-such as they can not real-

Then, love and trust Him, and over you will come a peace and happiness that nothing in this world will ever make you part BRAMBLEBUSH.

#### Must We Run Our Chances?

"I will have so much a month for cigars and clothes; a fellow is bound to keep up his own personal expenses."

It was gathering dusk and I was hurrying homeward, when the above sentence caught my ear and two young men passed me. I looked them well over, for the remark awakened my interest. The speaker was a fair-faced, well-dressed boy of, possibly, 18. He had a characteristic way of setting down his heels, and that general undersized development that the early use of tobacco, and other evil habits, leaves upon the young. His companion carried his under eye-lids well up, as though the nerves were weakened by tobacco smoke; and there was a bulge on one side of his unwhiskered face that told its own story. As I recognized in the boys sons of our best citizens, my thoughts flashed with painful suddenness to the twe little boys who hold in their tiny hands so very much of my future sunshine.

"Is that what I am working so unceasingly to accomplish?" I asked myself at every

No, it is as far from that as virtue is from vice; this result for which I struggle. Yet, I know the mothers of these boys, and I know they have struggled to accomplish the same results for which I am struggling. I say struggle, for after work comes rest; but to us who call ourselves mothers there never comes any rest. Throughout all eternity this mysterious creature whom we have helped develop into action must exist; and throughout all eternity there will remain a new beam of brightness or an added line of darkness through this, our offspring.

I carried the instance, together with all of my doubts and fears, to my husband. He said to me: "Well, it is the state of society! It is next to impossible to bring up a decent boy in this city."

"Hadn't we better move to Kansas City?" I asked, searching for a remedy.

"Kansas City!" he echoed, with a circumflex of bitterness over each separate letter. "St. Louis?" I hesitatingly suggested.

"St. Louis!" he repeated with horror. "Chicago?" I murmured with meekness.

"Chicago !" screamed my better half and sought what seemed a great relief in a very unsympathetic laugh. "Well, what must we do?" I demanded

desperately, being given one of those combative natures that finds relief in fighting an "Run our chances," he replied.

"But we don't seem to have any chances,"

I said. "Well, time enough to worry about it when the trouble comes," he answered, thus cheerfully dismissing the subject.

There is often a depth of strong common sense in a reply that is made by the inspiration of the moment. And the poor, little driven-into a corner sentence I flung after him as he disappeared through the gateway, grows in strength and importance every day in this household. It was this-"Can't you do something?"

I have been living something in the spirit of a hunter whose life depends upon running down his game ever since those boys crossed my path. Individuals, especially parents, in their struggles after patience, get so accustomed to enduring circumstances as they overtake them from day to day, that they sometimes need a shock to arouse them to the fact that many of the burdens and annoyances of daily occurrences, which it would be more wise-in fact their duty, to cast off. How many mothers are so accustomed to hearing the father say, "Why not know that there would come a time when | don't you see that Jimmy stops this, or that strange, and the weak wife struggles along, pearing her own and her husbands author-"I will not forsake you." Indeed He will ity, ending, in too many cases, in a misera-

All day an undefined sense of injustice had been lingering in my mind, and when the father of the children we are supposed to be helping each other to bring up came into the house with the exclamation, "Wife, why will you allow Johnny to play with those street gamins?" the veil was rent, and, instead of meekly going to the door and commanding the boy to come in, I boldly made use of the reply I had flung after him earlier in the day, "Can't you do something?" When, a little later, he said, "Wife, why will you allow that child to come to the table The pine tree, says an authority, serves as a refuge for more than 400 species of insects. with such dirty hands?" I reiterated, with new binder and all the improvements in free Trial Bottle of Dr. King's New Discovery.

thing?" And when, an hour afterwards, looking up from that man's mantle of domestic irresponsibility, the newspaper, he called out, somewhat impatiently—"Wife, if you don't want that boy utterly ruined, you have got to keep him off the street evenings." I again re-dished the sentence, "Can't you do something?" It seemed, for the first time, to convey a meaning to his mind. He walked to the gate and called the child, who came immediately, expecting something pleasant-"Johnny, you must not go through the gate after supper without permission."

That was the beginning; the end is not yet. And singularly as it may seem to that very numerous class of fathers who have never tried governing their own children, there has been from that hour the gradual upbuilding of a feeling of confidence in and dependence upon each other between that father and son.

(Concluded next week.)

### Waste in the Kitchen. A writer, Evangeline, in the Household

writes of the practical subject above named

in a very practical way. She says that there is a law that has come down to us from the ages, that "Those who would have must save, and those who would save must practice self-denial;" but a great many of the American people form an exception to the general rule. It is a deplorable fact that we are the most wasteful people in the whole world, in the matter of buying and cooking our daily food. There is a sinful waste in the majority of American kitchens; between injudicious buying and bad cooking, we may safely venture to say that in any one hundred homes there is enough wasted to furnish the tables of another hundred households. What particular profit is it to the laboring man, that he receive the highest wages? His wife, with extravagant tastes and wasteful ways in the management of the household, will keep him poor all his days. Girls marry young, and go into homes of their own, with no idea whatever of what man-agement and saving mean. Mother always looked to those things, you know, and quite often mother's ideas about those matters were rather vague. The wisest legislation cannot wholly prevent the evil of hard times, which the country occasionally experiences. But economy in our personal and household expenditures will help wonderfully. We have just passed through an unusually hard, close winter; there has been much suffering, men have not had employment, and as a necessity their families have suffered because there had been no money laid by for that rainy day which is liable to come to every one. A man might just as well work for small wages as large, if it must be squandered at the beer garden or wasted in the kitchen. The French will take barely nothing and serve a delicious soup. There is not a shadow of an excuse for bad cooking; look at the diabolical stuff set upon the table in nine-tenths of the homes, and dignified by the name of "bread." There is no bread about it; it is not fit to eat; it would give a Poland-China convulsions. There should be less guess-work and more certainty; when the sponge is set at night, you want to know for a fact that the bread will come out of the oven next day in good shape. I mean by this it is to be eatable; so nice and white and sweet and light that your husband and everybody else at the table will remark "how beautiful the bread is," and there will be such a satisfied feeling that you will determine every baking shall be just as nice. I think it needs a well-balanced head to run the home machinery; you need to look a number of ways to keep everything going; you have got to calculate. There are seven days in the week, four weeks in a month and twelve months in a year, with three means a day; there must be considerable calculation used to have variety, plenty at the table each time, and see that nothing is wasted. There are numberless delicious little dishes that car be prepared out of the fragments. Cold ham can be chopped fine and made into omelet, meat pies out of cold beef or veal, hash will utilize the salt beef and cold potatoes; there need never be waste. The wife is vested with full authority to manage the household; see how many drains there are if she be inclined to waste. The husband will wonder where all the profits go. One will say, "Well, I shall not save; he has a

shall spend all I can; what little I would save would not count." Ah! but it does. There is nothing better than a well-managed household; it will not dwarf or stunt the mind; it will help to develop it. Economy is not stinginess. The pantry need not be filled with numberless butter plates, mouldy meat, dry bread and cake. Calculate how much you want for each meal, cook it just as good as you can, improve every time if possible; there is progression in the kitchen as well as elsewhere. A true wife should feel that a great share of her husband's success depends upon herself. She must be interested in the management of the house, or failure is the result.

### Washing Suggestions.

In cases where it is feared that soap may change the color of an article, as, for instance, scarlet hosiery or lilac print, if the garment be not badly soiled it may be cleansed by washing, without soap, in water in which pared potatoes have been boiled. This method will also prevent colors from "running" in washing prints.

To prevent blue from running into a white ground, dissolve a teaspoonful of copperas

To prevent blue from running into a white ground, dissolve a teaspoonful of copperas in a pailful of soft water, add a piece of lime the size of an acorn, and soak the garments in this water two hours before washing.

To keep colors from running in washing black prints, put a teaspoonful of black pepper in the first water.

To make linen beautifully white, prepare the water for washing by putting into every ten gallons of water a large handful of powdered borax. Or, boil with the clothes one teaspoonful of spirits of turpentine.

To remove tea stains from a white cloth, soak it in javelle water, which is made as follows: Put a pound of sal soda and five cents worth of chloride of lime into an earthen vessel, pour over it two quarts of soft water, stir well until the sal soda is dissolved, and use the bath warm. This is also effectual in case of grass, tannin or fruit stains.

A simpler way to remove grass stains is to stains.

A simpler way to remove grass stains is to spread butter on them, and lay the article in

spread butter on them, and lay the article in hot sunshine.

Fruit stains upon cloth or upon the hands may be removed by rubbing with the juice of ripe tomatoes. If applied immediately, powdered starch will also take fruit stains out of table linen. Left on the spot for a few hours, it absorbs every trace of the stain. For mildew stains, mix together soft soap, laundry starch and half as much salt, and the juice of a lemon. Apply to the mildewed spots, and spread the garment on the grass. Or, wet the linen, rub into it white soap, then finely-powdered chalk; lay upon the grass and keep damp. Mildew stains that have been long in linen may be removed by rubbing yellow soap on both sides, afterward laying en, very thick, starch wetted with cold water. Rub in well and expose to light and air.

with cold water. Rub in well and expose to light and air.

There are several effectual methods of removing grease from cloth. First, wet with a linen cloth dipped in chloroform. Second, mix four tablespoonfuls of alcohol with one tablespoonful of salt; shake together until the salt is dissolved, then apply with a sponge. Third, wet with weak ammonia water; then lay white blotting or tissue paper over it, and iron lightly with an iron not too hot. Fourth, apply a mixture of equal parts of alcohol, gin and aqua ammonia.

### How Oatmeal is Made.

How Oatmeal is Made.

The first operation in the manufacture of the meal is the removing from the oats all cockle, small oats and foreign seeds of whatever kind, for if any of these remain the quality of the meal is much injured. Black oats, if even of good quality, give a bad appearance to the manufactured meal, as it reappears in the form of black particles, which to the tidy housewife appears to be a something much more uncleanly. After the oats have been properly cleaned by sifting, they are subjected to the operation of drying. This operation requires some care to prevent the oats from burning. As soon as sufficiently dry, they are removed from the kiln while still very hot and stored in such a way as to have them retain their heat; after thus remaining three or four days, and hardening, they are ready for the shelling operation. This shelling is accomplished by passing the oats through millstones of a special pattern. The product that comes from the stones is groats, or the whole kernels, dust, seeds, etc., and they must be separated. By means of a combination of seives and fans the groats are separated from the other material, and are then ready for grinding. For extra quality meal, the groats may be shelled and also passed through a brushing machine. The grinding of them must not be long delayed, as a few weeks' exposure renders them unfit for milling. In grinding the groat, the great aim is to avoid pulyerization, and to have the granules cut square and of uniform size. Oatmeal is generally denominated by the cut—as pin-head cut, rough cut, medium and fine cut—though these terms have different meanings in different districts. After the grinding, the meal is passed through sleves, and the siftings graded according to size.

Women are numerous in the British civil service. In a competition for 165 places in

Women are numerous in the British civil service. In a competition for 165 places in the postoffices 2,534 women entered.

### The Houng Folks.

#### A Beautiful Picture.

Among the beautiful pictures
That hang on memory's wall,
Is one of a dim, old forest
That seemeth the best of all.
Not for its gnarled oaks olden,
Dark with the mistletoe;
Not for the violets golden,
That sprinkled the vale below;
Not for the milk-white lilies
That lean from the fragrant had That lean from the fragrant hedge; Not for the vine on the upland, Where the bright red berries rest, Nor the pink, nor the pale, sweet cowslips, It seemed to be the best.

I once had a little brother,
With eyes that were dark and deep;
In the lap of that olden forest
He lieth in peace asleep.
Light as the down of the thistle,
Free as the winds that blow,
We royed there the beautiful summers,
The summers of long ago.
But his feet on the hill grew weary,
And one of the autumn days
I made for my little brother
A bed of the yellow leaves.

Sweetly his pale arms folded My neck in sweet embrace, As light of immortal beauty Silently covered his face; And when the arrows of sunset Lodged in the tree-tops bright, He fell, in his saint-like beauty, Aslean by the gates of light Asleep by the gates of light.
Therefore, of all the beautiful pictures
That hang on memory's wall,
The one of the dim, old forest
Seemeth the best of all.

-Alice Carey.

### Afloat With a Florida Sponger.

(Concluded.)

Nearly a dozen different kinds of sponges are named by the Gulf fishermen. The valuable ones are the "sheep's wool," "boat," "yellow," "grass," and "glove" sponges, but the last two are not of much account. "Loggerhead," "bastard," "finger" sponges, and the like, are useless. Expert fishermen can tell all these apart as far under the water as they can see them at all, though in six or seven fathoms the very largest—perhaps as big as a peck measure, become mere purple spots on the bottom. Unless the water is clear, however, even the aid of the water-glass will not enable a man to see the large deep-growing sponges; and a locality is often "played out" because it is so muddy that nobody can tell what is there. This is not a common obstacle, however. In fact, sponges would not grow where the water is often solled.

Perceiving a sponge on the bottom—you

sponges would not grow where the water is often soiled.

Perceiving a sponge on the bottom—you or I would probably pass it over as a stone or bit of coral, or not notice it at all—the hooker signs to his mate, who, by dexterous manipulation, holds the boat stationary while the hooker lets his long pole slide quickly to the bottom. Guiding it with one hand and shoulder only, and looking through the water-glass, he places the hook underneath the sponge, taking care not to injure the body, and gives it a violent jerk. If it breaks, it floats up at once and is picked up; but sometimes several twisting jerks are required to detach the tough polypore, and now and then one will hold on so unexpectedly that the gunwale of the boat will be dragged under, and the twe "Conchs" find themselves pitched head first into the water. We can imagine not only the laughter of the crews of the other boats, but that sponges, corals, and ascidians gurgle with pulpy glee over such a retributive accident. The hardest of all species to detach is the "sheep's wool," while the "yellow" is the easiest.

When a sponge comes up bearing a "bud" of good size, this is broken off and thrown

When a sponge comes up bearing a "bud" of good size, this is broken off and thrown back. It sinks and survives, but is said not to become affixed to a rock, but to drift about on the bottom with the motion of any storm or current that may stir it. It in-creases in size, but easily cludes the grasp of the clumsy hooks that try to pick it up. These outcasts, the wandering Jews of their race, are called "rolling Johns" by the fish-

In the regular routine of the summer In the regular routine of the summer sponging, breakfast on shipboard is over in time for the boats to start out at early day-light. At 12 e'clock (noon)—it, in the excitement of good fishing, it is not forgotten—the men come in to get a luncheon and empty their catch on deck. Should a fog settle upon the sea, it is the cook's business to work the vessel as near to the boats as to work the vessel as near to the boats as possible, and to keep sounding his fog-horn. Nevertheless, boats frequently get astray, and are sometimes drifting for many hours in the fog before they can get aboard their own or any other vessel. Separations occur in this way which last through a whole season, now and then; but I am not aware that any boat's crew was ever totally lost, though they are not accustomed to carry either a compass or any provision other than a keg of fresh water in the yawls.

Sometimes, in the spring the roughness

they will pay a dollar a gallon for it. As these fish abound in the vicinity of the Florida Reefs, and are more easily caught than any other species, their capture is one of the many curious items that enter into

Florida Reefs, and are more easily caught than any other species, their capture is one of the many curious items that enter into the Conch's means of livelihood at Key West.

The noon luncheon is hurriedly eaten, and after it the men return to work as long as they can see. A hearty dinner awaits them at sundown, and, later, an evening of conversation and rest. They are great storytellers, these muscular, brine-faced spongers; and some of their yarns, derived from the most ancient plots and motifs, exhibit a quaint and salty originality which deserve a place in sea literature.

At the end of a week or fortnight a schooner collects her boats and carries her spoils to the shore, where has previously been set up an arrangement for preparing the raw sponges for market. This consists of a circular pallisade of poles bound together by withes into a pretty close pen, about twenty feet in diameter, and standing in some protected shoal where at high tide the water may be ten or a dozen feet deep. Such a pen is called a "crawl," a word corrupted from the Spanish corral. Into it is thrown the first week's catch and left to macerate—a process rapidly effected in the poorly-organized tissues of the sponge animals. When the vessel reaches it on the next Saturday, these first sponges have been to the shore, placed upon planks, and thoroughly beaten with a short paddle called a "bruiser;" which treatment drives out of the interior of each, as well as presses from its surface the dirty water and decayed animal matter with which it is saturated. It is a very noisy and nasty plece of work, and ends with slashing away with a knife any black and limy particles that may still adhere. This done, the new stock is transferred from the yessel's heaped and slimy deck to the corral, and left to be washed out by the waves.

After the "bruising," the skeleton sponges are strung on a rope-yarn, in lengths of two-fathom "strings," and are laid out to bleach and dry on the hots and beach until the end of the voyage. All this work will be done b

Sunday is almost universally kept as a complete holiday, most of the spongers being very religious men so far as regards certain observances.

The open and unprotected way in which the season's catch is left as it accumulates in the corrals and on the beach, tempts to occasional thieveries; but these are of rare occurrence, for captured culprits are roughly dealt with by the fishermen, whose property has no serviceable protection under the protection of law, and who, therefore, do not feel called upon to consult judge or jury in inflicting punishment.

At the end of the cruise the captain calls the cargo, transacts all the business, and gives the men their equal shares. There is not much market except at Key West and Nassau, though merchants in Cedar Keys and some other Florida ports occasionally buy. The annual catch in the Gulf of Mexico probably brings the fishermen about \$200,000, and amounts to about 135,000 pounds, ready for market.

The buyers classify the sponges according to market grades, put them, in many cases, through a second process of shearing, cleaning and bleaching by the aid of lime, etc., then pack them in pressed bales, reducing their bulk, and thus cheapening their freight, before sending them to their customers in New York and London.

No sponces growing in American waters are as fine as those of the Eastern Hemisphere, and especially of the Mediterranean. Those seen in apothecaries' windows in the United States are usually foreign, and are far more expensive than the native product. Three species of each are ordinarily to be bought, but these are separated by dealers into several extra varieties. The superior elasticity and density of the Mediterranean sponge can be easily shown by pressing one of them and one of the American sponges together under a weight, and watching the less rapid and complete recovery of its original form by the latter. "This is due, not only to the comparative absence of impurities in the fiber of the Mediterranean form, but to the granter and more agreeable to th

pieces for stuffing cushions, mattresses, etc., as a substitute for hair, and in the manufacture of certain kinds of cloth in place of wool or hemp.—E. I., in London Field.

#### Something About Liberia.

The following interesting interview is taken from the Topeka Daily Capital. It is well worth reading:

The following interesting interview is taken from the Topeka Daily Capital. It is well worth reading:

Mr. John Norman, a colored man, who was a resident of this city about sixteen years and was engaged in the grocery business in Topeka for a period of eleven years, and who left Topeka in the spring of 1881 for Liberia, a country on the west coast of Africa, returned yesterday for a visit with old friends. Mr. Norman was a slave in Mississippi, and soon after the war came to Topeka, and lived here until his departure for Liberia. Liberia, it is well known, is peopled wholly by negroes, and was established as a colony in the year 1821 by the American Colonization Society. In that year the first negroes were sent over from America, and the country pradually grew until in 1847 they declared their independence. Since that time this country has been very prosperous, and now has about 900,000 inhabitants. Probably about one-fourth of this number are uncivilized natives, who are easily managed and are willing to work. The others are either natives of America or of English colonies. The country has a President, a Senate and a House of Representatives, 'Supreme courts, etc., just as in America, in fact everything is fashioned after America.

Mr. Norman and wife and son left Monrovia, the capital of Liberia, on the 23d of May, coming by way of Sierra Leone, Liverpool, Queenstown and New York. The journey from Monrovia to Sierra Leone, was by a sailing vessel, and the remainder by steamer, the journey being made in about five week's time. Mr. Norman, in giving an account of his stay in Liberia to a Capital reporter, said he had always had a desire to see the country inhabited by his people, and having a number of friends over there, he decided in 1881 to make the trip. The expense of the trip for him and his wife was about \$700. When he arrived in the country, he looked over the different settlements which extend about fifty miles back in the interior, and finally bought 265 acres of land for which he paid \$1 per pound. G

via, the capital city.

The natives traffic in palm oil, palm kernels, rice, rubber, monkeys, poll-parrots and other productions characteristic of this country. There are a great many varieties of monkeys and they abound in all parts of the country, sometimes doing considerable damage for the farmers by infesting rice fields. They are captured by the natives and sold at the seaports to outgoing vessels. Parrots are very plentiful, often as many as sixty or one hundred being found in a flock. They are called the African gray parrot, and are the most valuable kind in the market.

Mr. Norman says the greater part of the African coffee is shipped by way of Hamburg to New York.

It is the general opinion among Americans that the climate of Liberia is intensely hot, but Mr. Norman says he has never suffered more with the heat than since he came to Kansas. The average temperature there, he says, is about 80 deg., but never over 95 deg. They never have frosts, so it will be seen that it is a very moderate temperature. There is a wet and dry season. The rainy season begins in May, and continues about six months, sometimes overflowing farms.

The houses which the American, or civilized citizens, live in are brick, while the natives live together in huts. There are many towns up and down the coast, but few in the interior. The religion of the civilized citizens is the Christian. They have Methodist, Presbyterian, Baptist, Lutheran and other churches, which are all very generally attended. A Catholic church has been established within the past year. The religion of the natives and their labors are very very expected. Mr. Norman and their labors are very very expected. or the natives is Monammedan. There are many missionaries from America and other places who are working with the natives and their labors are very successful. Mr. Norman belongs to a Baptist church, which has sixty-nine members, of which sixty are converted natives.

Mr. Norman was much surprised when he went there to find such a preserver.

in the fog before they can get aboard their own or any other vessel. Separations occur in this way which last through a whole season, now and then; but I am not aware that any boat's crew was ever totally lost, though they are not accustomed to carry either a compass or any provision other than a keg of fresh water in the yawls.

Sometimes, in the spring, the roughness of the sea will prevent the handling both of the sea will prevent the handling both of a calm about his boat, lasting as long as he cares to drift about with it. The oil obtained by trying out the liver of the "nurse" shark, is considered by the spongers as far more doubled by the spongers as far more and conveniences which one would hardly expect to find in that country. Many of the citzens are in fair circumstances, while on the American slde, Bermuda yields sponges far inferior to the product of the cares to drift about with it. The oil obtained by trying out the liver of the "nurse" shark, is considered by the spongers as far more and conveniences which one would hardly expect to find in that country. Many of the citzens are in fair circumstances, while others who are not as industrious have, of course, not fared as well. Mr. Norman was much surprised when he Mr. Norman was much surprised when he

or six varieties of deer skins, specimens of the native homespun cloth, and a number of coffee canes.

coffee canes.

Mr. Norman said the people of that country were very much interested in the last election in America, and very much regretted that there was a Democratic victory. He says they have two parties—the Republican and Whig, and great interest is taken at their elections. He thinks Liberia is a most interesting country, and that some day it will have a name in the world.

### A Hint to the Boys.

I stood in the store the other day when a boy came in and applied for a situation. "Can you write a good hand?" was asked. "Yaas."

Good at figures ?"

"Yaas."
"That will do—I don't want you," said the

"That will do—I don't want you," said the merchant.
"But," I said, when the boy had gone, "I know that lad to be an honest, industrious boy. Why don't you give him a chance?"
"Because he hasn't learned to say 'Yes, sir,' and 'No, sir.' If he answers me as he did when applying for a situation, how will he answer customers after being here a month?"
What could leave to thet? He had faller.

what could I say to that? He had fallen into a habit, young as he was, which turned him away from the first situation he ever applied for.—New London Day.

### The Story of Appomattox.

The Story of Appomattox.

From the "Personal Memoirs of U. S. Grant:" I found General Lee had been brought into our lines and conducted to a house belonging to a Mr. McLean, and was there with one of his staff officers waiting my arrival. The head of his column was occupying a hill, a portion of which was an apple orchard across the little valley from the court-house. Sheridan's forces were drawn up in line of battle on the crest of the hill on the south side of the same valley. Before stating what took place between General Lee and myself, I will give all there is of the narrative of General Lee and the famous apple tree. Wars produce many stories of fiction, some of which are told until they are believed. The war of the rebellion was fruitful in the same way. The story of the apple tree is one of those fictions with a slight foundation of fact. As I have said, there was an apple orchard on the hill occupied by the Confederate forces. Running diagonally up the hill was a wagon road which, at one point, ran very near one of the trees, so that the wheels on that side had cut the roots of the tree, which made a little embankment. Gen. Babcock reported to me that when he first met Gen. Lee he was sitting upon this embankment with his feet in the road and leaning against the tree. It was then that Lee was conducted into the house where I first met him.

### Chinese Passion for Flags.

Chinese Passion for Flags.

The military desire for flags in China has developed into a passion. Every fortress, intrenched position, camp, city gate or officer s headquarters has from one to 100, some of them of one bright, solid color, but most of them are arranged in stripes, the colors red, white and blue being preferred. Were but three stripes used the resemblance to the French tricolor would be almost exact, but as they ordinarily use five or six the similarity of color becomes a mere suggestion. When it is not obtainable, black, and rarely yellow, takes its place. At the camp of the Tsotsung regiment, on a pleasant knoll just outside the walls of King-chung-foo, more than 100 small flags were displayed, ranged with the precision of the rows in a cornfield, there being one for nearly every white canvas tent, in which the soldiers were comfortably installed. The material used is Manchester cotton, bought white and colored by the Chinese. As each is about the size of a common bed-blanket, and several thousand must be required for the 10,000 troops stationed in and about Holhow and King-chow-foo, the quantity needed is immense, and the merchants who deal in the goods were prepared accordingly. There is no doubt that their number is often unreasonably increased by the mandarins commanding the troops, that they may have the squeeze or difference in price, since they purchase at a fair rate and charge the Government double.

Men and Deeds.

Men that can dare and do;
Not longings for the new,
Not pratings of the old;
Good life and action bold—
These the occasion needs,
Men and deeds.

The Durcey Med 1. Duncan McGregor.

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### THE KANSAS FARMER

Published Every Wednesday, by the

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#### GENERAL GRANT IS DEAD.

At every mention of the old hero's name, at every sight of his grim features, one's hand almost instinctively moves to his hat. It is no dishonor, it is no evidence of weakness to uncover one's head in the presence of such a man. All men are created equal, and and emperors paid him homage, that his had passion and energy and courage in respect to natural rights, there is no countrymen at home shared with him equal to overturning volcanoes, and he in respect to natural rights, there is no difference among men. But when the child opens its eyes upon the sunlit land he becomes at once an integral factor of the great public around him; and as he grows older, he and his fellow citizens, as a nation; become factors in the world's history. Nations rise and grow or they decay and die in accord with the qualities and characters of the people there; and there come times in a spot in the neighborhood of Appothe history of every people when the best and strongest men or the worst and column halted on a distant hill, where weakest men are publicly recognized, one class as benefactors, the other as destroyers. There are supreme mo-cheers taunted the unfortunate. In ments in most men's lives when all of profound silence the Southerners dress-their future is determined by a move- ed their lines, fixed bayonets, stacked ment in one or another direction. In arms and deposited their accourrements. many cases men walk or run past great opportunities, or sit still while the them down; and many a veteran stooped opportunities pass; and when one recognizes the time and place to strike, he starts ahead in a new and better direction, ever afterward appreciating the circumstance of the new departure. Those are heroic moments when lives are moulded and permanent impressions are made not only on the individual himself, but upon all who are near to him. So it is in larger degree when men grasp great occasions and beckon to the people to come; so it is when men strike at some great wrong and cut dressed in new and well fitting clothes. their way to fame; so it is in vastly He cared not to honor himself, but to greater decree when in perilous times serve his country. He gave no pang to the people call one of their number to perform great deeds and he does it. This last is Grant's case. A simple, modest, silent citizen, without honor or fame as the world knows them; without distinguished lineage, without fortune, own weary soldiers. In all his orders without friends outside the little circle about his humble home; when reckless speethes, not one order, letter, or hands struck at his country's flag and speech can be found that extols him-threatened disruption of the Republic, self or asks for praise, nor one that he organized a company of soldiers, not detracts from the valor of his soldiers, or as lieutenant or captain specially com-refers ungenerously to his superiors. missioned, but as a citizen and patriot, He left to his vanquished enemies their and then asked to be assigned to duty. horses, and gave them food to eat on In less than four years after that he their way home. Robert E. Lee, himmustered out the grandest army that self, received a "destitute ration" when ever moved upon a battlefield and turned he reached Richmond, and he was brave over to a rejoicing people a restored enough to express his thanks and to say Union. He commanded more and betthat "unless this assistance had been exter soldiers than any military leader of modern times, he conquered the most have found a meal. And when the formidable rebellion is history, he never order went forth to arrest General Lee asked for promotion, he never disobeyed and others and try them for treason, an order, he never complained against a this quiet man, this silent chieftain, superior, he never oppressed a subsaid it must not be done, and it was not. people of foreign national soldier; he was neither profane nor vulgar, he was not a boaster nor a babbler, sed. On every proper occasion, this sing the ceremonies.

he was uniformly kind, quiet, unobtrusive, prudent, firm and braye; he was never driven from a field of battle, he never failed in what he undertook; and this mild mannered man, this retired, ndustrious, patriotic citizen, without show, without noise, without complaint or boast, never disheartened dence, this faithful and true soldier is deneral Grant. There is no dishonor n raising one's hat to such a man.

Was he great? What other word, o-day will fit his case. There is none ook back to the dawn of time. Among ll the names that illuminate history, most of them are sometimes below the orizon, but Grant's will always be above. Not a single dark spot upon measured by any reasonable standard, the career for which his countrymen General Grant was great. His modesty honor him. Always on duty, always and reticence, while they are among hi aithful, always successful, always just, best traits, obscure the real man. He always merciful, always magnanimous, was so simple in his habits, so mild never disheartened, never defeated, attentive, respectful and retired, that always manly, brave and generous, people wonder how such a man can be equal to every emergency, always mod-great. Sherman had a glowing intelest, not forgetting in presence of royalty that he was a citizen, not for- and put them on paper, and he could getting when princes, potentates, kings all his honor and fame. Is not such a

man great? "On the 12th day of April, 1865, the cision and skill; Grant had all there is Army of Northern Virginia was formed by divisions for the last time. Lee had already given his personal parole, and was not present. But commissioners had been appointed on each side, under whose direction the troops marched to matox Court House. The national a white flag was waving. No guns were in position, no bands played; no then slowly furling their flags, they laid to kiss the stained and tattered colors under which he might fight no more All day the sad ceremony went on, the disarmed men streaming to the Provost Marshal's tent for their paroles. Then they started for their homes." But Grant was not there. He had fought to crush the rebellion, not to make fame for himself. After fixing the terms of surrender, he made no parade of show. He was clad in his fatigue uniform when he met Lee who was superbly his enemies after they laid down their arms. He tarried not to receive the formal surrender; he left that for others to do while he hastened to Washington to prepare for the disbandment of his in all his correspondence, in all his little

modest soldier has spoken kindly of his old enemies and said good things for them. His last recorded utterance is of this character. Is not such a man

It was he that first suggested a practical way to correct abuses in the civil service; it was he that set on foot beyond effort, never elated beyond pru-investigation looking to governmental control of Inter-state Transporfation he it was that insisted upon arbitration instead of war to adjust differences among nations; it was he that led contending nations of Asia to peace; it was ike him in history. Lift the veil and he that began that friendly commercial intercourse between the United States and Mexico that will ultimately make the two Republics friends indeed.

Within the range of his public duties. lect, he could originate great schemes lead armies and fight battles; Sheridan could express his thoughts in piercing ones: Hancock had courage and preof good in all these traits. Sherman said—"Your judgment is best;" Sheridan said-"I wish you were here yourself;" Hancock—"Command and I will obey." No man was jealous of Grant; no man wished to deny him the full enjoyment of his justly earned renown All his countrymen honor him as the first among their million soldiers, and all the world recognizes in him at least one of the most distinguished military heroes of whom history gives any account. Such a man must have been

Now that he is dead his virtues will begin to show themselves more prominently. Those who were his enemies will be ready to do him justice. The writer of this is not a hero worshipper nor is he given to measuring out unmerited praise. He regards General Grant as a man whom the American people ought to remember always a the only man found competent to lead our armies to victory in the most trying time of our history; as one who, when clothed with power used it for his country and not for himself; one who never spoke unkindly of his enemies and persecutors; as one who in time of trouble and danger asked for opportunity to help; as one who, while honored beyond all men, always received it in the name of his country.

### THE FUNERAL.

The body of General Grant is empalmed. It will remain at the cottage where the General died until Tuesday. August 4, when it will be removed to the place of interment in Central Park. New York city, stopping at Albany one day and lying in state at the City fall in New York. The interment wi take place Saturday, August 8.

The attendance will be larger than any similar gathering mentioned in history. The people will be numbered only by hundreds of thousands. The President of the United States will be present, and with him a hundred thousand of the soldiers of the great war on both sides, as many citizens, and Governors, and Senators, and Judges, and people of foreign nations.

by the President to the duty of direct-

THE DEAD.

Ulysses Simpson Grant was born at Point Pleasant, Clermont county, Ohio, April 27, A. D. 1822, and he died at Mt. McGregor, N. Y., July 23, 1885, at the age of 63 years, 2 months and 26 days. His father was a tanner, but Ulysses did not like to work at that business; he preferred farming, trading on the river, or to "get an education," He was sent to West Point and graduated there as number twenty-one in a class of thirty-nine. He was promoted twice for gallantry in the Mexican war, and returned as Captain. In 1854, he resigned his commission and cultivated his farm near St. Louis. In 1859, he joined his father in the tanning and leather business at Galena, Ill. When President Lincoln called for soldiers, Captain Grant organized a company of volunteers and took them to Springfield, and asked for something to do. He refused to accept the captaincy of his company and the colonelcy of several regiments. He was appointed Colonel of the 21st Regiment Illinois Infantry. In August he was appointed Brigadier General, and the next February he was made a Major General and received the thanks of Congress for his conduct at Fort Donelson. He was afterwards appointed Lieutenant General, appointed under a special act of Congress, and placed in command of all the armies. He received the surrender of the commander of the Confederate armies, April 9, 1865. He was made Secretary of War ad interim (during, or for interval) under President Johnson, during the period of suspension of Mr. Stanton. He was elected President of the United States at the general election in 1868, and again in 1872. In 1878 he, with his wife, began a journey around the earth. He received special honors at every place he visited, and was received on his return at San Francisco, with public demonstrations never before equalled anywhere. It may be said truly that he received more attention, more respect, more applause than any other man named in history. His last recorded thoughts were, (1) that his wife's body should be buried with his when it comes her time to die; (2) thankfulness that sectional feeling among the people has passed away; (3) thanks for the good will of his fellow citizens; and (4) praise of his country.

It is said that web worms first get to work on corn a little below the surface of the ground, where they may be caught and destroyed by hand.

The first annual Poultry and Pet Stock Show of the Missouri Valley Poul-Association will be held at City from December 29, 1885, to January , 1886, inclusive. Edward Haren, Corresponding Secretary, Kansas City, Mo.

An exchange calls attention to the fact the first apple orchard in Kansas was set out near Osage Mission (on what is known as the Lakeview farm and owned by James O'Brien), by a ooth sides, as many citizens, and Govmors, and Senators, and Judges, and
presbyterian missionary society in 1845.
The Osage Indians a few years afterwards burned the buildings and cut
down the orchard. The Catholic fathers
at the mission planted a peach and apple
orchard in 1847, and some of the apple
ong the ceremonies.

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#### Horticulture in Sumner.

The Sumner County Horticultural Society had a very interesting meeting the 17th. Pear culture received more attention than any other one subject. Mr. Williams, who has given the subject much attention, gave this list as good in the order of their naming: Bartlett, Duchess, Clapp's Favorite, Flemish Beauty, Louise bon de Jersey, Vicar of Wakefield and Howell-add for family use Osbond's Summer and Seckel.

The President, Mr. Seavey, gave his experience with blackberries. He stated that he set his patch in rows five feet apart and the plants five feet apart in the row and cultivated thoroughly. Did not until the second season allow more than three stalks or canes to the hillpinched laterals at 6 or 8 inches. In the spring mulched heavily and pulled up all sprouts outside of the rows. Keeping the bushes low and stocky prevents injury by the wind or by rabbits. Has gathered about 200 quarts from his patch of about one-sixth of an acre and expects to get from 200 to 300 more. Any one can easily raise all the blackberries they want. Prefers the Kitatinny to the Snyder or any other variety. It is good enough. In reply to an inquiry of the Secretary, he said he had been successful with berries. Had picked 350 quarts of strawberries this season from about one-eighth of an acre; 150 quarts of raspberries from a little less ground and from two rows of blackberries ninety feet long would get 100 quarts or more. Mrs. Jessup inquired what varieties of raspberries he cultivated, and he replied: Thornless, McCormick and Gregg. The last two named are very productive. They all need pinching in as Mr. Seayey does his raspberries. In answer to an inquiry as to red raspberries, he said he was not yet prepared to recommend variety-had hopes of some now on

Mr. John Henderson inquired how late in the season a young orchard should be cultivated. President Seavey

by several was the Concord. The Secretary said several members of the society had lately procured three or four earlier and as many later varieties, and in two years could, perhaps, give an interesting answer.

#### Assessment and Taxation.

A certain amount of taxation is to be raised every year, and it must come off the people in proportion to the amount of the property they own. The theory in Kansas is, and the practice ought to be, that property, for purposes of taxation, should be assessed at its actual value. But it is not so assessed, as we all know very well. The aggregate wealth of the State, as appears from the report of the State Board of Equalization, last week, is \$247,271,645.40. As compared with other years, that is a great show ing, over \$11,000,000 increase the last year, yet that amount does not show more than 25 or 30 per cent, of the real value of the property in the State.

Property for taxation is assessed much below its real value. We have been looking at the figures published in some of our exchanges. They are taken direct from the assessor's returns, showing the values put on different classes and different items of property. In one instance, 4 horses, 7 head of cattle and 3 hogs are put down at \$35 for the lot; another case,4 horses, 7 cattle,35 hogs are valued at \$65, the lot; another case. 4 horses, 8 cattle, 5 hogs, are put at \$25. the lot: wagons are valued at \$2 to \$10 each; pleasure carriages rate at \$2, \$5, and \$10; gold watches \$10 a piece; silver watches \$5 apiece, organs \$15; mules \$5 and less per head; horses \$10 to \$25; cattle \$7 to \$12, and so on. And besides this undervaluation, a great deal of property escapes taxation altogether, not including that which is exempt under the constitution. If all the property in the State were taxed, and if the assessment were made according to real, and not according to fictitious values, the State's showing would be much better, and the people would in no way be injured. If a man has to pay ten dollars in taxes, that will be all, whether his property be assessed high or low, provided, of course, that all the people's property is assessed at the same rate of valuation.

Every head of a family in Kansas is entitled to an exemption from taxation of \$200 worth of personal property. In practice that \$200 often covers value equal to five times as much. But say the general average of assessed values is 40 per cent. of the real value of the property; that would justify covering \$500 worth of actual value with the \$200 exemption; then suppose that of the two hundred thousand families in the State one-half of them are in possession of that much to exempt, the aggregate thus exempt, and that therefore does not appear in the reported figures, amounts to \$50,000,000. Then. take the \$247,000,000 regarding it as 40 per cent. of the real value of the property assessed, it is seen that the proper figures would be \$617,500,000, to which add \$50,000,000 exempt, and we have in round numbers \$667,000,000, which would look a good deal on paper, to say the least.

We agree with one of our city contemporaries, the Capital, that besides

the census for the United States in white men first saw it, there would be 1880, we will see that the work can be well done for about one-half of what is now being paid, and still good wages be earned. There is no necessity for a man running about over the township or waiting in towns for country people to come in; assessments can be done in a cheaper way; but people generally, we suppose, would rather have the assessor come to them and not that they should go to the assessor, in which case, as stated above, they are paying about twice as much as they ought to do.

### Distribution of Seeds.

We are in receipt of a printed circular purporting to give extracts from minutes of a meeting of the American Seed Trade Association held recently at Rochester, N. Y. The particular subject referred to in the extracts is the distribution of seeds by the Department of Agriculture, and the object of the discussion was to evolve some plan, as the president said, whereby the Government could he stopped from sending out free seeds. The complaint is based on the fact of competition on the part

on the fact of competition on the part of the Government.

We are not in sympathy with that the department is often imposed upon by unscrupulous dealers, and in that 375.

Ret dun and 10226 102267. Ret did not retain and 10226 102267. Retain and 10226 102267. Retain and 10226 102267. Retain and 10226 10226 by unscrupulous dealers, and in that way, inferior seeds are distributed; but the general object of the Government in the seed business is a good one. Agriculture is the first and greatest interest; it needs the support and attention of the Government by way of aiding farmers in getting possession of new and rare seeds, If left to seedsmen alone the process of distribution would be very slow, for nine of every ten persons that receive seeds from the department would never order the same kinds from a person who makes a business of raising and selling seeds.

The best way to handle this subject is to call the attention of congressmen and of officers in charge of the Department of Agriculture to the subject and discuss with them the duties of government agencies in promoting the interests of agriculture.

### Niagara Park.

After several years effort, the legislature of New York succeeded in purchasing all the land and water about Niagara Falls on the American side, from the middle of the river above and below the cataract, and a hundred feet beyond the bank line, including all the islands and other points from which a good view of the great wonder can be had. The ceremonies of dedication of the place as a park a few days ago were imposing. Many people were present; addresses were delivered appropriate to the occasion; prayers were offered and national airs sung and played. At last, then Niagara is to be kept for the people's inheritance. And it is a timely move, something that ought to have been done long ago. When one thinks of the great cataract at Niagara, its grandeur, its fame, and its history, the Capital says, it seems strange that it was not taken long ago by the Governments interested and set apart for a world's park foreyer. It is one of the things that ought to be saved for men. and women, and children to look at and should be cultivated. President Seavey these and a great many other irregular-replied as long as the woods grow. The Secretary said it depended on the season. As wet a one as this until late in July, but the late tending should be shallow plowing or cultivating.

Vice President Camp agreed to this, but said keep the weeds out if there is danger of drought.

Mr. Andreas inquired as to the best grape for this section, and the response study; it should belong to the world,

greater naturalness about the place. It is well that even at this late day steps are taken to preserve what is left.

Mr. W. J. Colvin, writes: "The corn crop of Pawnee county is as good as we have ever seen in any State. We had a fine rain last night which will insure a good yield on all early corn. Cattle, hogs and sheep are healthy and doing weil. Everybody busy and happy."

### THE MARKETS.

By Telegraph, July 27, 1885.

### STOCK MARKETS.

St. Louis.

The Midland Journal reports: CATTLE-Receipts 2,900, shipments 1,100. Good corn-fed native shipping steers firm and wanted

at 4 80a6 00, native grassers 4 25a5 00, good native butchering steers 4 50a5 00, mixed butchering stock 2 75a4 00.

HOGS—Recelpts 2,600, shipments 2,800. Market firm and active. Yorkers 4 65a4 70, packing 4 25a 4 50, butchers' 4 65a4 70.

### Chicago.

The Drovers' Journal reports:

CATTLE-Receipts 8,500, shipments 2,000, Market dull and 10a20c lower. Shipping steers 4 50a

#### Kansas City.

CATTLE—Receipts 2,205, shipments 890. Exporters 5 25a5 45, good to choice shipping 4 90a 5 20, common to medium 4 50a4 80, stockers and feeders 3 30a4 40, cows 2 00a5 30.

HOGS—Receipts 8,963, shipments 3,798, Assorted to light 4 35a4 37½, heavy and mixed 4 20a4 80, SHEEP—Receipts 1,256. There was only a poor quality on sale; demand good for fat. Fair to good muttons 2 25a2 85, common to medium 1 50a 2 10.

#### PRODUCE MARKETS.

#### St. Louis.

WHEAT—Lower and moderately active. The market opened lower, but recovered under gool demand, later became irregular, and finally closed 1/43/c below Saturday for August and September and 1/60 higher for October. No. 2 red, cash 96a961/40, August 97a973/c, No. 3 red, cash 873/4890.

873/a89c.

OBN—Lower, under a pressure to sell, closing 11/c lower than Saturday for July No. 2 mixed, cash 41/5a42c, July 42c, August and September 421/a428/c. OATS—No. 2 mixed, cash 24½a25½c, BYE—Firm at 54c.

### Chicago.

Chicago.

The wheat market to day was heavy and lower under discouraging advices from abroad and better crop reports at home last week.

WHEAT—Ruled weaker. Foreign advices were not encouraging, while the weather was reported excellent for growing crops. The market receded steadily 1½c and closed 1½c under Saturday. Sales ranged: July 88/4267½c, August 87 887/2c, September 89/4909/2c, October 91/4929/3c, No. 2 spring 86/2c, No. 3 spring 79/2c, No. 2 red 90a 92c, No. 3 red 86/2c.

CORN—There was a fair speculative trade with a somewhat settled feeling. Cash 46c, July 46a 46/2c.

OATS—No. 2 cash, 32½c. RYE—Market firm. No. 2 at 58½c. BARLEY-Nominal. FLAXSEED.—Steady; No. 1, 1 24.

### Kansas City.

### Borticulture.

Pear and Apple Tree Blight.

In the last report of the Illinois State Board of Agriculture, Prof. T. H. Burrill has a good article on the subject named above. He says:

This disease shows itself to common observers most conspicuously during the latter half of June, and the early part of July. Though similar appearances are presented at other times during the summer, and though in occasional instances it seems worse at some other than the time mentioned the fact other than the time mentioned, the fact other than the time mentioned, the fact is usually as stated. We shall undoubtedly hear a good deal of pear blight this season. Trees suffered severely from the vicissitudes of the last winter, and blight or no blight, many of them have perished, or will perish on this account. To many everything that happens to a pear or apple tree is blight. The name thus does service for numerous injuries and diseases. But the other day an entomologist of good standing in the Eastern States, thinks he discovered the cause of pear blight in an insect that bores into the twig! Now no one doubts but that tree twigs may be billed by one of good and the state of the state o be killed by such a depredator, but that the thing which horticulturists call fre-blight is so produced, is like attributing potato rot to the eyil influences of the moon, or rheumatism to witchery.

moon, or rheumatism to witchery.

What we need first is to clearly distinguish this so-called fire-blight or anthrax, as it has been called, from other diseases. When one has familiarized himself with its appearance, its special characteristics, the diagnosis is easily made, but it is not so easy to describe in words the peculiarities of the disease. Still it ought not to be difficult to so portray the difference in the appearance of apple and pear trees the appearance of apple and pear trees which have been injured solely by freezing, and those affected with what we specially call blight. Let us try.

1st. Winter injuries usually show the effects upon the whole tree, or through-out large parts of the top. Blight is much more likely to appear here and there leaving the other parts typically

healthy.
2nd. The trees severely hurt by frost, often put forth leaves in the spring so that a very superficial observer might pass them for a time as healthy, but if he looks closer he will easily enough see that the foliage is very light upon the tree, and then by further looking, he will find this latter comes both from there being to few leaves, and many of those produced are not full size. Very commonly these half-grown leaves soon wither away, and the others assume a yellowish tint. When, however, the injury is confined to the trunk the leaves come out full and may be for some time to all appearances quite healthy, then perhaps not until July turn yellow and sickly, On examina-tion the bark of the trunk will be found separated from the wood in areas of greater or less extent the twigs are shrunken and hard.

On the other hand the leaves of

blighting trees are full size, and until finally affected are green and lux-uriant. Then they more or less sud-denly turn brownish black, at first watery, then dry and hard. Upon close examination of the leaf surfaces, a peculiar shiny coating, like varnish, may be often found, and this is a most excellent mark. On blighted trees the leaves never become a pale, sickly yellow; at least this is not the case when the disease does not date back to the previous season. The bark never separates readily from the wood, the twigs do not seem dry and shrunken so long as the leaves on them retain any appear-

3rd. In appearances, so far as the leaves are concerned, the frost injuries are indicated by slow and gradual changes; the blight-killed leaves rapid-ly pass from what seems perfect health to death.

It must be understood that this sudden change in the leaves does not neces-sarily indicate a very rapid march of the disease through the tissues of the tree, only that when the leaves are them-selves directly invaded by the destroy-ing agents, each leaf quickly dies. There are other characteristic differences in these tree maladies, but the

foregoing are probably sufficient.

Now, in the case of blight, what is to be done? Surely there is no time to spend over hypothetical remedies, such as burying old horseshoes in the ground, root pruning, external application of sulphur and lime, etc. Surgery, not

medecine, must be appealed to. early as possible, remove the affected parts. Examine carefully the bark, and cut below any indications in this, of the disease. Sometimes one can only tell how far down the disease has gone by shaving off the outer bark. If, in this way the living, or what ought to be the living bark, shows brownish patches or streaks, cut lower until healthy tissue is reached, and sever the whole part. See that the knife, saw, or other tool, carries nothing from the diseased part to the cut finally made. It is best to carry an extra set of tools, which are to be used only in the healthy wood and bark. It is easy to induce the disease in healthy trees by inoculation from diseased parts, and this must be kept in mind when pruning off the blighted parts. Cover the fresh wounds with common lead and oil paint. cut below any indications in this, of the

### Horticultural Notes.

Trees whose roots seek water should never be allowed near tile drains. The roots entering the pipes choke them. The willow has been known to travel 100 feet to enter a well.

A remedy for the maggot which infests cabbage is to make a hole with a dibble close to the stalk, insert ten drops of bisulphide of carbon and quickly close the hole again, says a contemporary.

A liberal dressing of wood-ashes will renovate an unthrifty orchard most wonderfully, says the Rural World. Bone dust and crushed oyster shells can also be applied and beneficial results will soon become apparent.

To dig up a fruit tree, by cutting a circle with a spade half a foot in diameter, says an exchange, cuts off more than nine-tenths of the roots; and to spade a little circle about a young tree not one-quarter as far as the roots extend and call it cultivation, is like Falteriative men claiming spurs and shirtstaff's men claiming spurs and shirt-collars for a complete suit.

A Pennsylvania farmer last year sold over \$6,000 worth of potatoes from twelve acres. He fertilized with a compost of hard-wood ashes and ovster shell lime, plowed deep, planted medium sized, well formed, uncut potatoes, three feet apart, gave level cultivation and cultivated often. From one hill he took thirty-one fine large tubers.

Whenever practical ship fruit at night and give it the benefit of the cool atmosphere while in transit, says the Philadelphia Record. Saturday is always the poorest day in the week to sell to advantage. Friday is the best day in the week. Ayoid as far as possible getting goods into market on Sunday morning. Monday morning the market is usually bare, and Sunday night shipments as a bare, and Sunday night shipments as a rule strike a good market. When shipping by freight always notify the consignee by sending receipt or other-

### A Natural Curiosity.

The Council Grove Republican says: N. M. Ellis, of Elm Creek Township, brought us the most singular bunch of apples. Three appear in a cluster like

grapes on a single twig.

One a red streaked apple, medium size, dead ripe. The other two, a pale green, smaller in size, winter apples, which he found last season ripened late in the fall.

He has five trees which bear apples thus grouped together. Usually two green and one red apple, sometimes three green and two red apples, and in three green and two red apples, and in one case only he found two red and one green apple. The red apples are now all dead ripe, while the green will not mature before fall. He has no name for the apples. The trees were purchased at the old Meacham nursery years ago. We shall send the branch and apples left with us to Prof. Shelton of the Stage Agricultural College, and see if he can throw any light upon the subject or tell us the kinds of apples growing on the same twig. growing on the same twig.

### Read This.

We have a Nichols, Shepard & Co. 10-horse power Traction Engine, a Nichols, Shepard & Co. 36-inch cylinder Separator, a Keystone 6-hole Power Sheller, with water-tank on trucks, belting, jack, and everything to make a complete Steam Threshing and Corn-Shelling Outfit. Engine and machines are practically new and in good working order. We will sell them at low prices for cash or on time payments, or trade them for good country or town property. For further particulars come and see us or address

IRON CLAD STORE CO.,

Wamego, Kansas.

### In the Dairy.

Butter and Cheese Making.

In a paper on "Butter and Cheese Making," read before the Illinois State Dairymen's Association, Mr. J. H. Broomell, of Aurora, a successful factory man, gave the following

GENERAL RULES FOR DAIRYING.

1st. Decide on your line of dairying—butter or cheese, or both.

2d. Select your cows according to the line of dairying chosen.

3d. Test each separately, and reject all not suited to your line of dairying or that fail in quality or quantity of milk.

4th. Feed liberally; have pure water always accessible, and keep a mixture of equal parts of salt, ashes, and sulphur, within reach of the cows.

5th. Be sure your stables are well ven-tilated; remove all droppings promptly; freely use absorbents and deodorizers, such as sawdust, dry earth, or cut straw, not omitting the liberal use of

6th. Be scrupulously clean in every particular, both in keeping the cows and in milking and handling the milk.

and in milking and handling the milk.

7. By all means avoid exposure of the milk to the hot sun and to foul air.

8. Air and cool your milk as fast as possible down to at least 70 deg., if you carry it any distance to a factory or creamery. Do the same if you make it into cheese at home, though you need not go below 80 degrees if made up immediately.

9. When milk is kept over night to

9. When milk is kept over night to be carried to a factory, the temperature should be reduced below 60 deg.

#### BUTTER-MAKING.

10th. If milk is set at home for cream, the sooner it can be set after milking, and the higher the temperature the better, as cream rises best and almost wholly while the temperature is falling,

wholly while the temperature is falling, 11th. Never reduce the temperature below 40 deg., as a lower temperature has a tendency to chill the product and injure its keeping quality; and it also expands the water, rendering its relatively greater density less instead of increasing it. To go 5 deg. below 40 deg. would have practically the same effect as raising the temperature 5 deg. and to that extent retards the raising of the cream.

of the cream.
12th. Skim as soon as the cream is all up, or so much of it as you wish from the milk.

13th. Keep your cream, if not churned

13th. Keep your cream, it not churned immediately, at a temperature of 64 deg. or below, but not below 40 deg, 14th. Churn at such temperature between 55 deg. and 64 deg., as experience shows you is best. Conditions vary the temperature for churning.

15th. Stop churning when the butter is in granules about the size of wheat kernels.

kernels.

16th. Draw off the buttermilk and wash in clean water before gathering the butter, until the water runs clear. If one washing is in brine, it is all the better, as brine coagulates the cheesy matter, which dissolves and is then washed out.

17th. Salt to suit customers, using

none but refined salt made for dairy purposes. The best American salt is as good as any.

18. Put up in such packages as are demanded by your maket.

### CHEESE-MAKING.

19th. Milk for cheese-making-whether whole, skimmed, or partly skimmed—should be perfectly sweet.

20th. Set your milk at a temperature

of 84 deg. or above. Rennet is most active at 98 deg., or blood-heat, above which the temperature should not be much raised. A temperature of 140 deg. will kill the rennet.

21st. Add rennet enough to make a

firm curd in thirty minutes. 22nd. Cut the curd as soon as it can

be done without waste, and cut fine and finish at once. anish at once.

28rd. Keep the temperature as evenly at 98 deg. as possible, until the curve is fit to dip and salt. Cheddar or cook in the whey as preferred.

24th. Practice alone can teach when

rapidly decay, if it does not sour and

26th. An even temperature is indispensible for curing—as low as 65 to 70 deg. for whole-milk cheese, and as high as 75 to 80 deg. for skimmed—according to the degree of richness.

#### CLEANLINESS

27th. It is not possible to be too particular about cleanliness. But cleanliness, Gov. Seymour says, is a comparative term, and what is clean to one may be dirty to another. 28th. Carefully brush the cow's udder —if it is befouled wash it—before milk-

ing.

29th. Keep all hairs and loose dirt out
of the milk that no alth may be dissolved in it. No strainer can take out what is dissolved.

30th. Use a fine soft-cloth strainer

soil. Ose a wire strainer.

31. Keep your milk away from all foul or disagreeable odours, as the fats rapidly absorb all odours and impart them to the products.

32nd. Wash in tepid water every dish, implement, or utensil that comes in contact with milk or its products, then scald in boiling water or steam; after which rinse in cold water and expose them to the pure air (and sunshine if possible) until needed for use.

### English Creamery.

Management of creameries in England differs in some respects from ours. The following description is taken from Bell's Messenger:

The creamery is located in the centre of a district where a great number of cows are kept, within a few hundred yards of Dunragit station, on the Portpatrick Railway. The premises occupied were built for a farina mill, but have lain unoccupied for more than twenty years, and were consequently useless. We believe the property has been bought from Mr. Cunningham, of Dunragit, on whose estate the houses Dunragit, on whose estate the houses are built. The construction of the buildings has been found very suitable for the purpose to which they have now been put, there being four or five different levels; these allow the milk to pass from one process to another without being once lifted, thus reducing the

The upper flat is used as a receiving room for the milk; at the outside of the door of this room a porch has been erected, supported on wooden pillars, underneath which the carts which bring the milk stand while being unloaded. In this porch above the cart, on rails, is a patent hoist for lifting the cans, which, when drawn up, are run along and emptied into one of two cans, which sit on a weighing machine at the door of the room, the milk being taken by weight of 10½ pounds to each gallon. One of those cans is used for new or warm milk, and the other for cold; a pipe runs from each of the cans invo large square vats on a lower level. The cans used for conveying the milk to the creamery are capable of containing from thirty to forty gallons each; they are made of block tin, of the same width from top to bottom, the lids being made to fit inside and press down close to the milk, so that the solidity of the milk is thus ensured. The lids are ventilated so that any gaseous matter may

The vats used for conveying the milk are made of tin plate and "jacketed," steam or cold water being available for turning on to raise or reduce the tem-perature as required; the four vats in this department are capable of containing 2,560 gallons. The milk, though bound to be searched before reaching the creamery, all passes through a searcher attached to each vat, so that the contained to each vat. all solid particles may be throughly removed. Before reaching the separators the cold milk is raised to 70 deators the cold milk is raised to 70 degress, the new or warm milk being about 80 degrees. The milk is run by means of tin pipes from those vats to the separators, of which there are three at work, each being capable of separating eighty gallons per hour. The separators in use are by Burmeister and Wain, and are driven at 1,800 revolutions per minute; the De Laval separator, we believe, will only separate fifty gallons per hour, and requires to be the whey as preferred.

24th. Practice alone can teach when to dip, something depending on whether a soft or firm cheese is desired.

25th. The cheesing process depends a good deal on the relative percentage of water to caseine. If there is too little water the cheese will cure slowly and be dry, crumbly, and have little flavour. If there is too much water, destructive fermentation will set in, and the cheese outside, and a centre piece, of a cone shape downwards, within it; the rapid contrifugal motion imparted to the machine causes the milk, which enters at the bottom, to separate at once, the skim milk flying to the outer side, the cream coming up the inner side, owing to their different specific gravities. When so separated, the skim milk and cream are caught in two separate tubes, cream are caught in two separate tubes, and conducted on to two refrigerators, these reducing the temperature to about

fifty degrees.

The refrigerator is a combination of galvanized pipes connected together and running horizontally, so that when at work the surface has a fluted appearat work the surface has a fluted appearance. Through those pipes a supply of cold spring water is continually flowing, entering at the lower corner, and carried by gravitation backwards and forwards through them, finding its way out at the upper corner. In this way the hot milk, which is flowing on at the top, spreads over the cooled surface, meeting the colder water in its progress downwards, and is collected in a trough at the bottom, connected by a pipe to some of the numerous vats. Two of the spparators are set on a raised platform, some of the numerous vats. Two of the separators are set on a raised platform, so that the milk when issuing from them is deposited on the top of the refrigerators; the other is on the floor of the room, the cream and skim milk requiring to be raised in a tube to the requisite level. Mr. M'Cracken informed us that he did not consider this such a good plan as the others, as the cream had to be serted into the trough, and the tap turned on, thus reducing the labor in this department to a minimum. The manure from the pigs is sold to Mr.

the tap turned on, thus feducing the labor in this department to a minimum. The manure from the pigs is sold to Mr. Broadfoot, Drockduil, on whose farm the piggeries are built.

The company during the spring months were using the milk from 2,500 cows, and were making during the time 10½ tons of cheese per week, besides a corresponding large quantity of butter. During summer the milk of about 1,500 cows was used, about seven tons of cheese besides butter being then made per week. From April 1st to October 1st, 576,000 gallons of milk were manufactured. During the twelve months the large sum of £25,000 has been paid for milk; the average price paid per gallon would be about 6½d.

Are You Going South?

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

Address,

J. E. Lockwood,
G. P. & T. A., Kansas City. If so, it is of great importance to you to be Address.

G. P. & T. A., Kansas City. A man 68 years old was sentenced to

four years imprisonment in the penitentiary, at Philadelphia, last week, for forging certificates of stock in a transportation company. He plead guilty, and his attorney, in asking for mercy, said that a large portion of the stock was issued by the defendant twelve or thirteen years ago, and it was a fact well known that a large amount of the well known that a large amount of the money which the defendant had received for the over-issue was paid in dividends at 12 per cent. per annum, to the very persons who got the stock, so that he profited very little himself in the transaction. The trouble was that he began in a small way and kept it up in order to prevent his first fraud from being discovered.

After apple trees begin to bear, the ground ought to be seeded in grass to keep down the weeds. The grass furnishes good sheep and hog pasture. Every second year at least the orchard will bear a dressing of good, well-rotted manure.

Early lambs are the most profitable. A cross of the Cotswold and Southdown intely produced a lamb that dressed twenty-four pounds at two months old, which sold for twenty-two cents a pound, a total sum of \$5.28.

## The Poultry Hard.

About a Hen-House.

A Massachusetts farmer recently described a poultry house as follows, in the New England *Homestead*:

I am a farmer and have some tact at building farm buildings, with reference mainly to comfort, convenience, economy and durability. I offer a cheap and simple plan of a building suited to the care of fowls, which is considered as nearly perfect as any plan that has come to the notice of the poultry-breeders of this vicinity, several of whom have built poultry houses during the past year.

For fifty to one hundred hens, a building 30 feet long and 13 feet wide, is the size I would recommend. Timber 4x6 inches, halved and nailed at the joints should be laid on a foundation wall of stone. The wall may be six inches high, or more if necessary to overcome the unevenness of the ground and to afford drainage. Spaces should be filled with small stones and the foundation banked with earth to exclude the cold.

Upon these sills, set studs 2x4 inches and 6½ feet long, mortised in at the bottom and cut off square at the top, standing two feet apart, or a little more if the windows are of a large size. Board on one side and the ends and roof closely with common coarse lumber. To make the frame stiff and strong, nail strips six inces wide crosswise of the building, and even with the top of the studs, provided a light flooring is desired to keep the room very warm; if no floor is wanted, nail only two strips across, and these to the sides of the rafters above the plate and ten feet from each end of the building. These strips will be convenient and sufficient to nail upon for partitions. Upon these sills, set studs 2x4 inches These strips will be convenient and sufficient to nail upon for partitions. The one side, ends and roof, except a doorway, should be covered with thick paper (except two or three feet of the ridge), then clapboarded or shingled.

The other side, which should be the south if possible, should have three large or six narrow windows, and these will light and warm the whole building.

The inside arrangement should be:

An alley on one side three feet wide.

will light and warm the whole building. The inside arrangement should be:
An alley on one side three feet wide, the entire length of the building, for convenience of watching, feeding and managing the fowls. The other part may be divided up so that there will be three rooms each 10 feet square. The partitions should be strips of lathing \$\frac{1}{2}\text{1}\$; inches, except the one between the alley and living or business rooms; this partition should be tight and boarded horizontally as high up as the bottom of the perches. At the bottom of this partition, a trough 8 feet long should be placed, 4 or 5 inches deep, and 8 or 10 inches wide on the top, with a hinged cover opening on the alley side of the partition. On the other side of the trough, short slats nailed to the trough and standing upright, with sufficient space for the hens to feed and prevent them getting into the same, is regarded an improvement in the matter of feeding.

About 15 or 18 inches from the ground, of feeding.
About 15 or 18 inches from the ground,

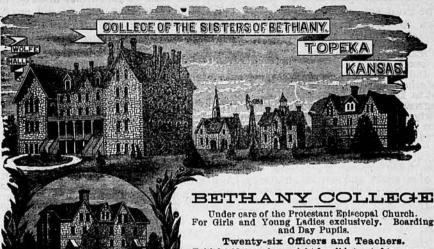
and over the feeding trough, a platform 2 feet wide and 8 feet long, covering the space between the partition and doorway of each room, may be permanently placed. One-half the width and nently placed. One-half the width and next to the alley should be partitioned into nests. A door, like the one over the feeding trough, may be opened into the alley, for convenience in collecting eggs and feeding the hens while setting. Above the nests are the roosting places or perches with a dropping-board three feet wide. The perches can be arranged to suit the owner. I think a frame hinged on the side next the alley and inclined the other way, one perch a

rame hinged on the side next the alley and inclined the other way, one perch a few inches above the front one, the best arrangement. It can be raised in front for convenience in cleaning out.

Doors for the ingress and egress of the fowls should be under the windows.

The partitions of the yards outside should correspond with those inside, if parties of fowls are assigned to be kept. should correspond with those inside, it parties of fowls are assigned to be kept separate and unmixed. Closets and coops can be arranged in any of the main rooms as suits the fancy of the keeper, for the convenience of setting hens or fighting roosters. I think soft food should be fed in troughs inside the rooms, so made that no hen can put her "foot in it." The trough under the partition is for dry feed, or soft, also, if preferable. The doors opening from the alley into each division should be light and made of the same material as the partitions.

I think this building will cost about



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FALL TERM.-Begins September 9th, 1885.

\$75. Here is the estimate of a structure of this kind built here in 1884: 1,500 feet of lumber, \$15; 3,000 shingles, \$9; windows, \$10; 50 pounds nails, \$2; paper, \$2; making the building \$20; extra work paving the ground, \$5; clapboards, \$10; incidentals, \$1; total, \$74. This estimate is made with the understanding that every part of the work is to be thoroughly done.

It is said that a larger crop of apples may be grown when a hive of bees is stationed in the orchard. The pollen is rubbed from their bodies against the pistils of thousands of flowers, which thus become fertilized. Many of the strange freaks of hybridizing are due to the agency of bees.

If cats are kept for mousing only, they ought not to be pampered in the house. Their regular home should be mostly with other animals, about the barn.



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Cattle Leases Declared Unlawful.

The President of the United States, a few days ago, issued the following

WHEREAS, Certain portions of the Cheyenne and Arapahoe reservation in the Indian Territory, occupied by persons other than Indians, who claim the right to keep and graze cattle thereon, by agreement made with the Indians for whose special possession and occu-pancy the said lands have been rererved by the Government of the United States, or under other pretexts and li-censes; and, whereas all such agree-ments and licensess are deemed void and of no effect, and persons so occupying said lands with cattle are considered unlawfully upon the domain of the United States so reserved as aforesaid; and, whereas, the claims of such persons under the said leases and licenses their unauthorized presence upon such reservation caused complaint and discontent on the part of the Indians located thereon and likely to cause out-breaks and disturbances, now, there-fore, I, Grover Cleveland, President of the United States, do hereby order and direct that all persons other than Indians, who are now upon any part of the reservation, do within forty days from date of this proclamation depart and entirely remove therefrom with their cattle, horses and other property.

These leases were made, not by authority of the Government, but with the knowledge of the interior department. The Indians were first consulted and their consent obtained, and the Secretary of the Interior was asked to approve the leases. This was refused. The only color of sanction given was to the effect, that so long as the Indians did not object, the department would simply not interfere, and, as against mere trespassers, would protect the men who are paying Indians for the use of lands. Powderface, chief of the Arapahoes, thirks the leases are good things; for, he says, the Indians receive pay promptly from the leases, and he thinks the Indians will make more money in that way than they would to let the lands lie idle. He charges the dissatisfaction upon a few restless Cheyennes, and he is probably correct.

Be this as it may, the President has determined to set aside the leases and remove the cattlemen. There is nothing to do but submit, and so far as our information extends, there is no disposition to resist. But the time allowed is unreasonably short, as it seems to us. Fifty thousand cattle cannot he handled like a flock of a hundred sheep. It is now the warmest part of the year, just when cattle ought to be quiet as possible, and not driven faster than they would move in ordinary grazinga few miles a day only. It is dangerous such weather as this to drive cattle faster than they would go of their accord. They need to be kept free from excitement and extra exertion. And this will be true during all of the forty days and for thirty days longer in the Cheyenne and Arapahoe reservations. The cattle ought to remain there until the first of October at the earliest, and then they should be driven slowly. It would be better to put the time November rather than at any time before that.

Besides the danger to the cattle in an early and forced movement, there would necessarily be a good deal of difficulty in finding unobstructed range anywhere else for so many cattle. A lands near Indian Territory are occupied by owners or lessees of lands, and it will probably require a long drive to reach pasture that is unclaimed or that can be leased at rates that will be remunerative to the owners of the cattle. Under the law passed at the last session of Congress no person is permitted to occupy the public lands except as a settler on a tract not exceeding one hundred and sixty acres. These particular cattle must therefore be taken to unset-

until they can be sold, or they must be sold at once, or they must be put on other leased lands. In any case there will be great inconvenience and loss if the time for the removal is not extended. The cattlemen themselves ask a year; that is unnecessarily long, because if the cattle are removed it will be done before the warm weather of next year comes. A reasonable time, as it appears to us, would be on or before the first day of April, 1886.

It will be said by some, perhaps, that these men are trasspassers, and therefore are not entitled to notice. But that is not true. They are not trespassers. They are not there in pursuance of law, but those lands were set apart for the use and occupation of Indians, and the Indians freely consented to the use of the lands for grazing cattle if they were paid for it. They have been paid, and a majority of them are satisfied now. The Government had notice, and did not object, simply suffering the act to be done, the Indians consenting. It is clear then that, as a lawyer puts it, the cattlemen are there under color of law; that is to say they asked permission openly and honorably, and offered pay for what they should receive; the Indians willingly consented and took the money, and the Government said in effect-"While we have no authority to grant you permission to occupy Indian lands or to confirm your leases from the Indians, so long as the Indians do not object, we will not interfere." Now it appears the Indians or some of them, are objecting, and it becomes necessary that the cattle be removed. Having gone there under such circumstances, it is unreasonable to hurry them off at the risk of great loss.

An effort is being made to induce the President to extend the time, and we wish it will succeed. Every reasonable construction of the law of the case warrants—yes, requires—that the cattle be allowed to remain at any rate until cooler weather comes.

### Sorghum for Fodder and Feed.

An old correspondent of the Kansas FARMER, W. J. Colvin, recently wrote a good letter to the Rural World. It is a Kansas letter, by a Kansas man, and it will be interesting to Kansas readers. Here it is:

By request of our friend Dr. Wilson I will try to give my experience in the mode of raising and curing sorghum for feed for the different kinds of stock fed by me the last four or five years.

In the first place I am convinced that

it should not be sown or planted until June, and from the 15th to the last, and as late as the middle of July answers very well, if the fall should prove to be a late one with some showers. I raised a fine crop of feed last season, sown on fresh plowed ground, sown about the 10th of August. I sowed sorghum and millet, one-half bushel of each. The millet did not come up very well, but the sorghum made a fine growth. I cut it too early, however, in order to save the millet, which was getting ripe when the sorghum was in bloom. I cut with a mower and raked and piled in large piles after it had dried thoroughly. All my stock ate it well, but being cut before maturing there seemed to be no substance in it, and the stock fell off fast while eating it, and picked up rapidly when I quit it and went back to the coarser and riper kind that had full ripe seed and sweet sap.

I ton thus introduced will gradually be absorbed by the surrounding wood, until all parts along the entire length of the central cavity must become completely saturated. When the solutions used have been taken up by the surrounding wood, it will only be necessary to withdraw the cork, or plug, and apply more, if it is thought desirable. A common watering pot with a slender spout will be a handy vessel to use in distributing the solutions.

Petroleum, creosote, corrosive sublimate, or any other of the well known wood preservatives may be used in this way. Telegraph posts might be prepared in the same way, and if the central reservoir were kept filled with pestence of the surrounding wood, until all parts along the entire length of the central cavity must become completely saturated. When the solutions used have been taken up by the surrounding wood, until all parts along the entire length of the central cavity must become completely saturated. When the solutions used have been taken up by the surrounding wood, it will only be necessary to withdraw the cork, or plug, and apply more, if it is thought desirable. A common watering pot with a slender spout will be a handy vessel to use in distributing the solutions. a fine crop of feed last season, sown on and sweet sap

I always try to get my sorghum in on fresh plowed ground and sow with my wheat drill, all the holes open, and my wheat drill, all the holes open, and put about half a bushel of good seed to the acre. If the seed is good I think that is enough. More seed makes a finer growth and more easily handled, but it is not as nutritious. The leaves have but little nutriment in them, and I value the seed as highly as the stalk.

I prefer to cut it before heavy frosts and leave it in the gavel until well wilted and dried, which takes at least a week or ten days. Then pile in large piles so as to cover the seed. I prefer laying the bunches crosswise on the

tled public lands and permitted to roam laying the bunches crosswise on the

ground, and continue filling round until a large pile is made, with the tops up-wards. It cures sufficient and remains bright and green, and prevents the loss of seed. This takes a good deal of hard of seed. This takes a good dearer many of seed. This takes a good dearer many work, but it pays better than to leave it lying in the gavel until wanted for feed. I cut all of mine last season better than the most of it refore heavy frosts, and the most of it remained in the gavel until fed, and re tained its sweetness until April, and I could not tell how much longer it would have kept had it not been burned by a prairie fire. What I hauled and stacked

prairie fire. What I hauled and stacked in January and February was as sweet as molasses the last time I examined it. My hogs seem to enjoy the work of pulling it out of the stacks yet, and have pulled out and eaten and wasted a great deal the last month. I am satisfied it should be cut before frost, or rolled down with a heavy roller that it may retain its sweetness during the winter—late sowing makes a rapid winter-late sowing makes a rapid growth, and, I should say, more sappy and tender, and it comes on after crops are out of the way, and the weather being cooler it can be piled without danger of heating. I have summered some over two summers, and my stock seemed to eat it as well the second win-ter as the first. If it is stacked so as to shed rain, it will not heat and sour. Sorghum is my favorite feed for cattle and horses as well as hogs and sheep. I think there is more stock killed for want of a plenty of it than because they had too much. I think other feed should be fed in connection with it, and semecially in cold weather and plenty. especially in cold weather, and plenty of good well water is very essential while the stock is fed upon it. Most people do not give their stock water enough at any time, and they require more when eating sorghum than with any other feed. any other feed.

#### New Wood Preservatives.

Immersing the lower ends of fence posts in hot coal tar will preserve the outside for years, but it very frequently happens that in using small trees from four to eight inches in diameter the heart wood is the first to decay. This often occurs with chestnut posts that are set before they are thoroughly seasoned. To prevent this decay at the center, as well as of all that part of the post placed below ground, by the use of wood preserving solutions, my friend and neighbor, J. J. Suckert, Ph. D., suggests a system which strikes me as suggests a system which strikes me as being not only novel, but exceedingly valuable as well. It is to have a hole in the center of the post, from the bottom upward, to a point that shall be above the ground when the post is in position. Then bore another hole in the side of the post with a slight inclination downward, making an opening in the center hole, which will allow free passage. A wooden plug, two or three the center hole, which will allow free passage. A wooden plug, two or three inches long, should be driven snugly into the hole at the bottom of the post. in order to prevent the escape of any liquid that may be used in the operation. Now when the posts are set in an upright position, a preservative solution may be introduced into the hole in the side and the center one filled with it, after which a cork or plug of some kind should be inserted in the side hole to prevent evaporation as well as to to prevent evaporation as well as to keep out dust and insects. The solu-tion thus introduced will gradually be tion thus introduced will gradually be absorbed by the surrounding wood, until all parts along the entire length of the central cavity must become completely saturated. When the solutions used have been taken up by the surrounding wood, it will only be necessary to withdraw the cork, or plug, and apply more, if it is thought desirable. A common watering pot with a slender spout will be a handy vessel to use in

tral reservoir were kept filled with petroleum, they would last a hundred years or more. Where a large number of posts or poles are to be prepared, it. to the acts disposing of our public lands, would be cheaper to have the holes, tells the story in brief in a contribution to would be cheaper to have the holes, bored by steam or horse power than by hand. With very open and porous wood it is quite probable that a hole bored in the side of the post and above the ground, and deep enough to hold a half pint or more of creosote or some similar solution, would answer, but I think a central cavity reaching to the bottom would be best. Will the readers of the American Agriculturist who give the plan a trial report the result?

—A. S. Fuller in American Agriculturist

tells the story in brief in a contribution to the North American Review for August. In the same number five medical authorities discuss the question, "Can Cholera be Averted;" Felix L. Oswald contributes a suggestive article on "The Animal Soul;" and the Rev. M. J. Savage, in "A Profane View of the Sanctum," brings an indictment against the daily press. The other articles are one on "The Price of Gas," by Charles Hostofort, one on "Temperance Reform Statistics," by Prof. W. J. Beecher, and the chapter of "Comments," by various writers, on articles in previous numbers.

#### Characteristics of Grasses.

In the report of 1884, issued by Prof. W. R. Lazenby, of the Ohio Experiment Station, occurs the following interesting classification of grasses, together with a brief and clear statement of the characteristics by which grasses may be clearly distinguished from other families of plants which are valueless: In point of economic value there is no family of plants that can for a moment compare with the grasses. Its members constitute the basis of all agricultural wealth. This being the case, every farmer should be thoroughly acquainted with the structural characteristics, habits of growth and proprieties of the valuable species belonging to this important family. Agricultural grasses may be classified as follows:

1. Cereal grasses, such as wheat, cornoats, barley, rye and rice. 2. Pasture, meadow and lawn grasses, such as June grass, red top, timothy, orchard grass, rye grass, sweet scented vernal grass, In point of economic value there is no grass, red top, timothy, orchard grass, rye grass, sweet scented vernal grass, etc. 3. Cane grass, sorghum, broom corn, sugar cane, etc. 4. Weedy grasses, couch or quack grass, chess, summer grass, wild rye, pigeon grass, etc. 5. Ornamental grasses, such as pampas grass, variegated maize, feather grass, etc. In ordinary language, the word grass is applied to the second division alone, but the other divisions are members of the same family, and have the bers of the same family, and have the same characteristics. Clover, alfalfa and the like are not members of the grass family, and should never be classed with them. There are only two orders of families of plants which can be mistaken for grasses. These are the sedges and rushes. True grasses can always be distinguished by the follow-ing characteristics. Every plant that has them is a grass, and no plants except true grasses possess them: 1. A hollow or pithy stem, which is circular and ususly unbranched. 2. The stem is separated into sections or joints by horizontal partitions called nodes. 3. The leaves are linear, alternate, and two-ranked. 4. The sheath of the leaf surrounds the stem from the node to the blade. Usually the sheath of the grass is split its entire length on one side. Whether split or not it can be readily removed from the stem without the stem it. Every plant, they have the tearing it. Every plant that has the above characteristics belongs to the grass family. The following points will enable anyone to distinguish grasses from sedges: Grasses—Hollow, round stem; split sheath, easily removed; leaves two-ranked. Sedges—Solid, tri-angular stem; sheath entire, not easily removed; leaves three-ranked. There are in the State of Ohio 140 species of sedges, all of which are practically worthless. There are 125 species of grasses, nearly all of which possess some To be able to distinguish the members of one family from another is therefore a matter of considerable importance.

### Book Notices.

The August number of Dorcas contains more than the usual amount of technical matter. The magazine is growing in favor with the ladies every month. There is a great variety of general information which is invaluable to the worker. No one interested in fancy-work will fail to find in this number something especially useful. Embroidery, knitting, netting and crochet are all introduced, giving directions and suggestions for summer work. The patterns are selected with taste and judgment, and are described in the plainest and most concise manner possible. No well-regulated household should be without Dorcas. Send ten cents for sample copy. Address Dorcas, 872: Broadway, New York City.

The American nation has a double birthright-liberty and land. Its liberty it has guarded jealously, but until very recent years it seems to have been indifferent to the loss of its landed estate and ignorant of the methods by which it has been dir

## The Busy Bee.

Prevention of After-Swarms. F. L. Dougherty, in Indiana Farmer says:

Preparatory to casting the first swarm, a colony will build from five to twenty queen-cells. With two or three of these finished and capped over, they are ready to go, and if the weather be favorable, out they come. Almost every bee at home, when they start, leaves with the swarm, even to the very youngest not quite able to fly; hive in a few moments. Bees returning from the fields soon discover the loss of bees and queen, but make no attempt to follow. At this time the combs are very full of young hatching bees, and it sometimes is surprising to notice how many will come out in the space of a few hours.

Queen-cells started and left unfinished at the leaving of the swarm, are continued and finished, and others also may be started after the leaving of the swarm. Underordinary circumstances, the first young queen that hatches out, if left to "her own sweet will," would if left to "her own sweet will." would visit all other queen-cells in the hive, tear open each cell and sting its occupant; but should the weather continue favorable, the colony having grown quite strong again, they are not satisfied, so they protect these cells, from her royal highness. Being a "her," one may easily judge her humor at a disputed authority in her own home: she leaves authority in her own home; she leaves with many followers, and her sisters may do likewise, from the same cause, until five or six after-swarms may be cast by the one colony.

Now we may take advantage of this instinct and prevent all afterswarms by removing these queen-cells on the same day, or the day before this first young queen makes her appearance. If queen-cells be removed on the same or a few days after the first swarm leaves queen-cells be removed on the same or a few days after the first swarm leaves, there being plenty of eggs and young larvæ, the bees will build more cells at once, thereby defeating the object for which we remove the cells. The coming of after-swarms can always be foretold by the "piping" of the young queen, which once heard will never be forgotten. It is rather an angry, discordant "squawk," and is easily heard by placing the ear close to the side of the brood-chamber of a hive.

If at the time of swarming the swarm's hive be placed on the old stand, and the old hive moved to a new loca-

If at the time of swarming the swarm's hive be placed on the old stand, and the old hive moved to a new location, all of the working bees will be drawn to the new colony, thus depleting the old hive to such an extent that it is hardly likely to cast a second swarm. Where honey is the main object, and increase not desirable, the old hive may be moved only a few inches, and a little to the rear, then after eight or nine days, removed to a new location. The bees which have hatched out and taken location from the old hive, will enter the new hive when the old one is taken away, and being of the same colony, with honey coming in, they will take up their new quarters without molestation. The latter plan is a good one where bees are in boxhives, or in such condition that they cannot readily be examined. Afterswarms in general are of little account as honey-gatherers, they being so few in numbers. When they exist it is better to put two or three into one hive; the bees will soon settle the question, or the queens themselves, as to which is to be which.

### Late Patents to Kansas People.

List of patents granted to citizens of Kansas for the week ending Tuesday, July 21, 1885, compiled from the official records of the United States Patent effice, expressly for the Kansas FARMER, by Herring & Redmond, solicitors of patents, No. 637 F street N. W., Washington, D. C., of whom information may be had:

No. 322,411—G. F. Bright, Greenwich, running gear for cultivators.

No. 322,443-O. R. and G. B. Hanchett, Wichita, plow attachment.

No. 322,840—A. J. Mercer, Burden-ville, assignor to J. M. Mercer and L. E. White, Burdenville, washing machine.

No. 322,506—S. G. Travis, Leaven-worth, end gate for wagons.

#### Kansas Fairs.

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

The Western National Fair (Bismarck), Lawre September 7-12; Secretary, R. W. Cunningham.
Anderson County Fair Association, Garnett, Augu
25-23; Secretary, M. L. White.

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

Brown County Exposition Association, Hiawatha eptember 8-11; Secretary, C. H. Lawrence,

September 8-11: Secretacy, U. H. Lawrence.
Butler County Exposition Association, El Dorado
September 29 to October 2: Secretary, H. W. Beck.
Chase County Agricultural Society, Cottonwood
Falls, September 22-25; Secretary, E. A. Kinne.
Cherokee County Agricultural and Stock Association.
Columbus Santamber 8-11: Secretary, E. O. McDowell

Columbus, September 8-11; Secretary, S. O. McDowell. Clay County Agricultural Society, Clay Center, September 15-18; Secretary, Wirt W. Walton.

Coffey County Fair Association, Burlington, September 15-18; Secretary, J. E. Weodford.

Cowley County Fair and Driving Park Association

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

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

Doniphan County Agricultural, Horticultural and Mechanical Association, Troy, September 15-18; Secretary, Thos. Henshall.

County Agricultural Society, Howard, Septem ber 15-18; Secretary, J. V. Bear,
Western Kansas Agricultural Fair Association, Hays

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

Harper County Agricultural and Mechanical Association, Anthony, September 1-5; Secretary, J. W.

Harvey County Agricultural Society, Newton, September 22-25; Secretary, A. B. Lemon,
Jefferson County Agricultural and Mechanical Asso-

ciation, Oskaloosa, September 30 to October 2; Secretary, A. J. Buck. 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, Sep

Jonson County Co-operative Fair Association, September 28-30; Secretary, C. M. T. Hulett,
LaCygne District Fair Association, LaCygne, September 29 to October 2; Secretary, O. D. Harmon,
Marion County Agricultural Society, Peabody, Sepember 1-4; Secretary, L. A. Buck,
Marshall County Fair Association, Marysville, Sep

tember 22-25; Secretary, C. B. Wilson.

McPherson County Fair Association, McPherson

September 29 to October 2; Secretary, J. B. Darrah.
Miami County Agricultural and Mechanical Association, Paola, October 7-10; Secretary, H. M. Mc-

Montgomery County Agricultural Society, Indepen ence, September 16-19; Secretary, B. F. Devore. Morris County Exposition Company, Council Grove

eptember 29 to October 2; Secretary, F. A. Moriarty Nemeh a Fair Association, Seneca, September 15-18; ecretary, W. E. Wilkinson.

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

Rice County Agricultural Society, Lyons, Octobe 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 Mechanical Association Santambay 20 to Outches 2. Sec. chanical Association, September 29 to October 2: Secretary, C. S. Martin.

Arkansas Valley Agricultural Society, Wichita, Ocober 5-9; Secretary, D. A. Mitchell.

Sumner County Agricultural and Mechanical Ass ciation, Wellington, September 8-11; Secretary, D. A.

Neosho Valley District Fair Association, Neosho Falls, September 21-26; Secretary, O. S. Woodard, Decatur 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, September

22-25; Secretary, A. J. Beakey.
Osage County Fair Association, Burlingame, September 15-18; Secretary, A. M. Miner.

The Kaneas 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, September 22-25; Secretary, Rufus Bean. Parson Fair and Driving Park Association, Parsons, September 15-17.

Caldwell Driving Park and Agricultural Association, Caldwell, August 27-29; Secretary, John W. Nice Pawnee County Fair and Stock Association, Larned September 23-26; Secretary, Geo. A. Sells. Reno County Fair, Hutchinson, October 13-16.

Ottawa County Fair, Minneapolis, September 8-11; ecretary, W. H. Chappel.

Centralia Fair Association, Centralia, October 6-7. Frankfort Fair Association, Frankfort, September 29 to October 2,

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

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

First Annual Poultry and Pet Stock Show, Kanss City, December 29, 1885, to January 1, 1886, inclusive; oretary, Edward Haren.

### THE STRAY LIST.

HOW TO POST A STRAY.

BY AN ACT of the Legislature, approved Feb 27, 1866, section 1, when the appraised value of a stray or strays axoseds ten dollars, the County Clerk is required, within ten days after receiving a certified description and appraisement, to forward by mail, notice containing a complete description of said strays, the day on which they were taken up, their appraised value, and the name and residence of the taker up, to the KAMSAS FAR-ER, together with the sum of fifty cents for each animal contained in said notice." And such notice shall be published in the FARMER in three successive issues of the paper. It is made the duty of the proprietors of the KAMSAS FARMER to send the paper free of cost, to every county clerk in the state to be kept on file in his office for the inspection of all persons interested instrays. A penalty of from \$5 00 to \$50 00 is affixed to any failure of a Justice of the Peace, a County Clerk, or the proprietors of the FARMER for a violation of this law.

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

Broken animals can be taken up at any time in the

year.
Unbroken animals can only be taken up between the ist day of November and the ist day of April, except when found in the lawful enclosure of the taker-

o persons, except citizens and householders, car

Bo persons, except citizens and householders, can lake up a stray. If an animal liable to be taken, shall come upon the premises of any person, and he fails for ten days, after being netified in writing of the fact, any other citizen and householder may take up the same.

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

If such stray is not proven up at the expiration of less days, the taker-up shall go before any Justice of the endays, the taker-up shall go before any Justice of the feace of the township, and file an amdavit stating that such stray was taken up on his premises, that he did not drive nor cause it to be driven there, that he has advertised it for ten days, that the marks and brands have not been altered, also he shall give a full description of the same and its cash value. He shall also give a bond to the state of double the value of such tray.

The Justice of the Pesce shall within twenty days

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

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

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

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

stray, and make a sworn return of the same to the Justice.

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

In all cases where the title vests in the taker-up, he
shall pay into the County Treasury, deducting all costs
of taking up, poeting and taking care of the stray,
one-half of the remainder of the value of such stray.

Any person who shall sell or dispose of a stray, or take
the same out of the state before the title shall have vested in him shall be guilty of a misdemeanor and shall
orfeit double the value of such stray and be subject to
a fine of twenty dollars.

### Strays for week ending July 15, '85. Smith county-J. N. Beacorn, clerk.

GELDING—Taken up by F. F. Cole, of Harvey tp., June 3, 1885, one light iron-gray gelding, 6 years old, weighs 950 pounds, branded O L on left hip, 15% hands high, scar on right side and top of head; valued at \$75.

Atchison County-Chas. H. Krebs, clerk.

MARE—Taken up by Taylor P. Aikens, of Kapioma tp., (Arrington P. O.) June 22, 1835, one sorrel mare, white stripe in face, spavined in right hind leg, har ness marks in various places, about 15 hands high, 12 years old; valued at \$50.

Clark county--J. S. Myers, clerk. COW-Taken up by G. W. Wilson, of Center tp., (P. O. Ashland), June 19, 1885, one dark red cow, 4 years old, branded H. B. on right hip and three bars on left side, left ear cropped; valued at \$25.

MARE—Taken up by E. G. Lee, of Center tp., (P. O. Ashland), June 10, 1885, one iron-gray mare, 15 hands ligh, 8 years old, collar mark on shoulder and scar on left forearm; valued at \$65.

Strays for week ending July 22, '85. Leavenworth county-J. W. Niehaus, clerk Leavenworth county—J. W. Niehaus, Clerk, HORSE—Taken up by J. D. Hines, of Easton tp., one dark brown hores, il or 12 years old, saddle marks, slightly knee-sprung, stiff in shoulders; valued at \$50. FONY—Taken up by Valentine Krapp. of Sherman tp., June 13, 1885, one bay horse pony, white star on forehead, left hind foot white, some saddle and harness marks, 14½ hands high, supposed to be 11 or 12 years old; valued at \$25.

Reno county-W. R. Marshall, clerk. SOW—Taken up by George Avery, of Hayes tp., July, 1885, one 1-year-old sow with pig, black with white eet; valued at \$10.

Butler county-James Fisher, clerk. HORSE—Taken up by John Lipscomb, of Spring tp.,
June 18, 1885, one dark bay horse, supposed to be 10
years old, medium size, both hind feet and left fore
foot white above pastern joint, white saddle marks on
each side of back, white star in forehead, no other
marks or brands visible; valued at \$75.

Elk county--J. S. Johnson, clerk. MARE—Taken up by C. H. Branch, of Pawpaw tp., June 8, 1885, one dark bay mare, a bout 10 years old, saddle and collar marks; valued at \$70.

Ford county--Sam'l Gallagher, Jr., clerk. COLT-Taken up by Kaward E. Lawrence, of Spear-ville tp., June 19, 1885, one dun mare colt, small slit in one car. one ear.
PONY—By same, at same time, one light roan margony, 6 or 7 years old, branded M. O. on left hip.

Montgomery county—H. W. Conrad, clerk.

MARE—Taken up by Wm. Persinger, of Sycamore
tp., June 15, 1895, one sorrel mare, 7 years old, blaze in
face, both left feet white; valued at \$70.

MARE—By same, one gray mare, 2 years old, slit in
right ear; valued at \$40.

MULE—By same, one black horse mule, 2 years old;
valued at \$60.

Linn county--J. H. Madden, clerk. HORSE—Taken up by B. M. Thompson, of Potosi tp., June 29, 1885, one bright bay horse, star in forehead, about 15 hands high, has collar marks, is lame in right fore leg; valued at \$60.

### Strays for week ending July 29, '85. Jefferson county-J. R. Best, clerk.

MARE—Taken up by J. Q. Ruse, of Sarcoxie tp., on or about July 1, 1885, one black mare, about 14½ hands high, tick marks all over, a letter V on left shoulder, sore on one shoulder; valued at \$25.

MARE—By same, about July 1, 1885, one bay mare, about 15½ hands high, white spot in the face, barb wire cut on shoulder, collar marks on both shoulders, supposed to be about 10 years old; valued at \$75.

Douglas county--M. D. Greenlee, Dep. clerk. MARE—Taken up by T. J. Harris, of Eudora tp., (1½ miles south of Eudora). June 10, 1885, one black mare, 14½ hands high, Texas brand on left shoulder and hip; valued at \$20.

Miami County—J. C. Taylor, Clerk.

PONY—Taken up by M. J. Williams, of Middle Creek tp., June 13, 1885, one black Texas mare pony, branded with 37 on left hip and shoulder, shod in front, supposed to be about 7 years old.



### RIVER VIEW

Stock Farm.

50 HEAD OF

### IMPORTED NORMAN STALLIONS

Just arrived from France, added to my stock of Norman Horses, which now numbers upwards of 100 HEAD, from 2 to 5 years old; Parties wishing to purchase first-class stock will do well to call and see my Normans before purchasing elsewhere. Prices and terms to suit purchasers. All of the above stallions were selected by myself in France this sasson. (Mention this paper.)

### JAMES A. PERRY

Importer and Brerder of Norman Horses,

Biver View Stock Farm, Wilmington, Ill. Fifty miles south of Chicago, on the Chicago & Alton

PERCHERON NORMAN, CLYDESDALE and ENGLISH DRAFT HORSES.



### E. BENNETT & SON Importers and Breeders,

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

Sedgwick STEEL WIRE Fence

Is the best general purpose wire fence in use. It is a strong net-work without barbs. Don't injure stock. It will turn dogs, pigs, sheep, and poultry, as well as horses ard eattle. The best fence for Farms, Gardens, Stock ranges, and Raliroads. Very neat, pretty styles for Lawns, Parks, School-lots, and Cemeterles. Covered with rust-proof paint, or made of galvanized wire, as preferred. It will last a life-time. It is better than boards or barbed wire in every respect. Give it a fair trial; it will wear itself into favor. The Sedgwick Gates made of wrought from pipe and steel wire, defy all competition in lightness, neatness, strength, and durability. We make the best, cheapest, and easiest working all-iron automatic or self-opening gate, and the neatest cheap iron fences now made. The Boss fording poultry coup is a late and useful invention. The best Wire Stretcher. Cutting Piers, and Post Augers. We also manufacture Russell's excellent Wind Engines for pumping, and Geared Engines for ginding etc. Forprices and particular ask Bardware Dealers, or address, mentioning paper.

Bardware Dealers, or address, mentioning paper, SEDGWIDK BROS., Richmond. Ind.

### The Beterinarian.

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

SWEENY .- Wasting of the muscles of the shoulder from hard work in an or the shoulder from hard work in an ill-fitting collar, in a young horse, may be remedied by applying once daily, or every second day, a portion of tincture of cantharides, over the surface of wasting. Give liberty from work on pasturage for some time, and thereafter, in moderate work, use a broad, lined breast barness.

Scours in Cow.—My cow did not winter well; had a poor appetite. She calved March 19th, and in about two weeks refused her grain altogether, and began to scour badly. I gaye her about two tablespoonfuls of powdered bone black, which checked the looseness, and she began to eat better, though not as heartily as she ought. Since turning out to grass, the looseness has returned, and her appetite is exceedingly poor, Scours in Cow .- My cow did not out to grass, the looseness has returned, and her appetite is exceedingly poor, and her milk has dried up. She has no cough. [Grass is not proper food for her. Take her up. Feed ground oats, bran and whole flaxseed steeped. Also good hay or corn fodder; no corn, cottonseed, or the like.]

STIFLE SLIP.—My mare, three years old, has something the matter with her hip joint. Her right hind leg will slip out of joint, apparently, and she will drag her leg out behind. It will go back again and be all right. She is not lame, and does not lower the leg in the least when walking. She is running in an orchard pasture, and the ground is hilled up about the trees. She is in good flesh, and has had the best of care all winter. [Stifle lameness is peculiar to young and growing colts, and gradually disappears as they get older and stronger. Keep her on level ground. The stifle joints may be frequently bathed with strong oak bark decoction, to give tone to the relaxed ligaments.]

Weak Legs in Colt.—A colt three weeks old when first foaled had very crooked legs; could not stand for the first day without being held up, but got so it could walk some afterward, then one of its hind legs was hurt on the gambrel; it was very much swollen and inflamed. I reduced the swelling with wormwood and salt, but he has no use of the leg. Would it be best to wean it from the mare and feed it cow's milk, keep it quiet and see if it would gain strength, or sling it up and try to have it use it's legs? [Rub its legs three times a day with some of the following liniment: Tincture of aconite root, 4 oz.; tincture of iodide, 3 oz.; spirits of camphor, 2 oz.; alcohol, 1 pint; mix. Get the colt up often and thus strengthen its legs. Its natural food is better than cow's milk. its legs. Its natural food is better than cow's milk.]

CONTRACTED FEET.—I have a valuable mare that is stiff and sore on her feet. I do not know from what cause, as I bought the many from uable mare that is stiff and sore on her feet. I do not know from what cause, as I bought the mare from some parties traveling through the country. They represented that her lameness was the result of keeping her constantly shod, causing a somewhat contracted hoof. If the lameness arises from contraction of the hoof, what would be the treatment, and what if it comes from founder? [The probability is that the feet by neglected shoeing have become contracted, and are affected with corns. Remove the shoes all around, pare the feet down properly, leaving the frogs intact, and give the animal liberty during the balance of the season on a good pasture; one with soft ground, or woodland preferred.] land preferred.]

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

Plants watered with water a few degrees warmer than the temperature of the atmosphere will make a far more vigorous growth, all other conditions being equal, than those to which cold water is applied.

The earlier the tomato vines the sooner they begin to bear, as age seems to be a very important matter with the bearing of the vines. The early ones also bear the most fruit and endure drouth better than those that are late.

Beets should be planted in drills thirty inches apart, and carrots two feet apart. This admits of horse-cultivation, and after the plants have attempted some growth by This admits of horse-curve, and a root the plants have attained some growth no hand-work need bedone. About six pounds to the acre is a fair average for sowing beets, and for carrots and parsnips about four pounds.

Spreading the manure or fertilizer over the ground broadcast is much better than placing it in hills or rows, as the roots of plants spread out in every direction, and thereby utilize the manure to greater advan-ture.

The cheese process depends largely upon the relative percentage of water to casein. If there is too little water, the cheese will cure slowly, and be dry, crumbly and have little flavor. If there be too much water, destructive fermentation will set in, and the cheese rapidly decay, if it does not sour and break.

#### Nervous Debilitated Men

You are allowed a free trial of thirty days of the use of Dr. Dye's Celebrated Voltaic Belt with Electric Suspensory Appliances, for the speedy relief and permanent cure of Nervous Debility, loss of Vitality and Manhood, and all kindred troubles. Also, for many other diseases. Com plete restoration to health, vigor and manhood guaranteed. No risk is incurred. Illustrated pamphlet, with full information, terms, etc., mailed free by addressing Voltaic Belt Co. Marshall, Mich.

### BERKSHIRE HOGS.

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

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

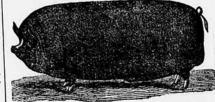
I have reduced rates for shipping.

All parties visiting from a distance will be met at the train, if notice is given in time.

For prices or any further information, address N. H. GENTRY

Sedalia, Mo. PURE-BRED

### Berkshire Small Yorkshire SWINE.



We are breeding 25 of the best selected sows of the above named swine to be found in the country, direct descendants from *Imported Sires and Dams*. We are prepared to fill orders for either breed, of both sexes, at the very lowest prices.

at the very lowest prices.

We have tried Small Yorkshires thoroughly, and are satisfied that they cannot be excelled as a profitable hog to raise. They are very docile and mature rapidly. Send for prices and catalogue to

WM. BOOTH & SON, Winchester, Jefferson Co., Kas.



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



G. M. EMRICK, M. D., Brookville, Ill. 18 Holstein-Friesian Bulls, 100 Victoria Pigs for sale at living rates; now is the time to procure choice stock. 30 varieties of Fancy Poultry. Write for what you want, James Facer, Manager.

### ABILENE HERD

### BERKSHIRES FOR 1885.

COMPRISING the choicest strains of blood bred to perfection, including ten different families known to fame, such as the Sallie. Sweet Seventeen, Cassanara and Gipsy families. At the head of my herd stands

### EARL OF CARLISLE 10459,

A son of Imp. Royal Carlisie 3433 and Imp. Fashion, and Duke of Wellington 12392, winner of second prize at St. Louis Fair in 1884, under one yeor old. My pigs this spring are very fine, from five different boars. I never have had a case of disease in my herd of any kind. Have some choice Boars now ready for service, also one young SHORT HORN BULL—fine individual and fashionably bred.

I would always prefer parties to

### Come and See My Stock Before Purchasing,

But orders trusted to me will receive my own personal attention and will be filled with care, for I will not send out stock that I would be ashamed to keep myself. Catalogues will be ready soon. Correspondence solicited. Come and see or address



Histablished in 1868

### RIVERSIDE HERDS POLAND and BERKSHIRE SWINE.

Having been a breeder of Poland China Swine in Kansas for seventeen years, it is with pride as well as pleasure that I am offering the finest lot of Pigs that I have ever seen offered, representing the best strains of the breeds, and thoroughbred. I will fill orders of either sex and any age at reasonable figures. All stock warranted to give satisfaction. Come and see my stock or write, and if not as represented, I will pay your expenses. Orders promptly filled.

J. V. BANDOLPH, Emporia, Kansas.



#### TIMBER LINE HERD -OF-

### HOLSTEIN CATTLE and POLAND-CHINA PIGS.

We have on hand 150 head of fine pigs for sale now and for spring trade. Also a fine yearling Holstein bull and a few grade Holstein cows for sale. Splen-did milkers. We guarantee satisfaction. All cor-respondence suswered. Inspection invited.

W. J. ESTES & SONS, Andover, Butler Co., Kas. ton in 1 ton

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J. I

BE WORLD

PLEASANT VALLEY HERD





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

Send for catalogue and price list, free.

Ottawa, Kausas.

### S. V. WALTON & SON,

Box 207, Wellington, Kansas, -Breeders of-

IMPROVED POLAND-CHINA HOGS Of the Highest Type.

All well pedigreed. Correspondence solicited

A YOUNG SOW Bred to our crack Boars; If you want A YOUNG BOAR Pig; If you want A YOUNG SOW

Pig; If you want to place an order for A SPRING PIG;

If you want A SETTING OF Plymouth Rock Eggs, at \$1.50; a Thoroughbred

SHORT-HORN BULL, From \$100 to \$125,

Write to MILLER BROS., Junction City, Box 298. - Kas.

### THOROUGHBRED POLAND-CHINAS



As produced and bred by A. C. Moore & Sons, Canton III. The best hog in the world. We have made a specialty of this breed for 38 years. We are the largest specialty of this breed for 38 years. We are the largest breeders of thoroughbred Poland-Ohinas in the world. Shipped over 700 pigs in 1883 and could not supply the demand. We are raising 1,000 pigs for this season's trade. We have 160 sows and 10 males we are breeding from. Our breeders are all recorded in American P.-C. Record. Pigs all eligible to record. Photo card of 43 breeders free. Swins Journal 25 cts. in 2-cent stamps. Come and see our stock; if not as represented we will pay your expenses. Special rates by express.

## OTTAWA HERD OF Pure-bred Berkshire Swine. Poland-China and Duroc Jersey Red Hogs.



I. L. WHIPPLE, Prop'r, Ottawa, Kas.

I. L. WHIPPLE, Prop'r, Ottawa, Kas.

I have for sale a fine lot of young pigs sired by Jayhawker 2839, Ottawa King 2885 (the champion hogs of Franklin county), and Buckeye Boy 2d 2219, Ben Butler 2977, Leek's Gilt-Edge 2887, which are very fine breeders of fashtonable strains. My sows are all firstclass and of popular strains. I also have an extra fine of of Duroc Jersey Red pigs for sale from sires and dams that have never been beaten in the show ring in four counties in Kansas. I have hogs of all ages in pairs or trio, of no kin, for sale. Herd has taken over twenty prizes this last year. My herd has never had any disease. Stock all eligible or recorded in Central Record. Please call and see stock, or write and give description of what you want. Inquiries promptly answered. Farm, three miles southeast of Otiawa, Kas.

### MEADOW BROOK HERD



Of POLAND-CHINA SWINE.

Breeding Stock recorded in American and Ohio Records. Tom Duffield 1675 A. P.-C. R., at head of herd. Always apace with latest improvements of the favorite breed. Personal inspection solicited. Correspondence promptly answered.

JELLEY & FILLEY, Proprietors, KINGMAN, KANSAS.



### RANKIN BALDRIDGE,

Parsons, Kansas,

Breeder of Pure Poland-China Hogs. This herd is remarkable for purity, symmetry, and are good breeders. Black Jim, a prize-winner, bred by B. F. Poland-China Record. Correspondance in visual

THIS PAPER may be found on file at Geo. P. Rowell & Co.'s Newspaper Advertising Bureau (10 Spring street) tising Bureau (10 Spruce street), where advertising contracts may be made for it IN NEW YORK.

#### This, That and the Other.

A bullet travels a mile in three and two-

The walls of several of the British war ships are constructed of paper.

During all seasons of the year, it is said, the earth at Yakutsk, Siberia, is frozen from the depth of fifty feet to that of about 1,000

The birthdays of Gen. Grant, Louis Kossuth, the Hungarian patriot, and Herbert Spencer, the English author, occur on the same day of the year.

The annual income of Vanderbilt is about ten tons of solid gold. That of the average laboring man is about two pounds, out of which he has to live and support his family.

Afghanistan's population is about equal to that of the State of New York, while the extent of its territory, 225,000 square miles, is considerably less than that of Texas, which contains 237,504 square miles.

A tailor named White, living near Nuneaton, in England, recently placed a scarecrow in his garden to frighten the birds. A robin has, however, built her nest in one of the pockets, while a tomit has utilized one of the sleeves for the same purpose. Both birds have reared their young there.

The birds of Louisiana, papers of that State say, will soon be exterminated. The colored people there not only make birds an article of food, but have begun to use their eggs for the same purpose. The eggs of partridges, robins, wrens, mocking birds, and all others that they can get their hands on are eaten. on, are eaten.

The seeds of the Kola tree, the highly-prized stimulant of the natives of Africa, appears to possess qualities which should give them a commercial value in civilized countries. Mr. T. Christie, an English writer on new commercial plants and drugs, asserts that chocolate made with Kola paste is ten times as nutritious as that made with cocoa, and that a laborer can work all day without fatigue on a single cup of that at breakfast time.

Imany towns in Scotland where street railroads are in operation, instead of charging a stated fare from which there is no deviation on account of the distance the passenger travels, the car routes are laid off into districts. When a man gets on a car he pays one penny, which takes him to the end of that district; then the conductor collects another penny, and continues at each new district until the terminus of the line is reached. By this means a passenger only pays for the distance he rides, and is thus encouraged to enter the cars when he has but a short distance to go. tance to go.

enter the cars when he has but a short distance to go.

The Apaches have smoke signals by day and fire beacons at night, and systems of telegraphy understood only by themselves. The displacement and overturning of a few stones on a trail, or a bent or broken twig, is a note of warning like a bugle call to disciplined troops. The many crosses dotting the roadsides of Arizona and New Mexico mark the graves of murdered men. "The country seems one vast graveyard," writes Susan E. Wallace, "if we may judge by the frequency of these rude memorials." Trained by their mothers to theft and murder from childhood, they are inured to all extremes of heat and cold, hunger and thirst. They are cunning as the red fox, insatiate as tigers, and so ingenious in preparing for surprises that they will envelop themselves in a gray blanket and sprinkle it carefully with earth, so as to resemble a granite boulder, to be bassed within a few feet without suspicion. Again, they will cover themselves with fresh grass, and, lying motionless, appear as a natural portion of the field.

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On and after July 1, 1885, the Missouri Pacific night express, between Kansas City and Omaha, leaving Union depot at 8:20 p. m., arriving at Omaha at 6 a. m., returning leave Omaha at 9 p. m., and arrive at Kansas City at 6:35 a. m. daily. These trains will be equipped with two new elegant Pullman palace sleeping cars, the Potosi and Glendale, and elegant palace day coaches. Day express (daily) except Sunday to Omaha leaves Kansas City at 8:45 a. m., arrives at Omaha at 6 p. m. These trains run through Leavenworth, Atchison, Hiawatha, and run to and from the Union Pacific depot at Omaha.

watha, and run to and from the Union Pacific depot at Omaha.
Connections made at Omaha for all points west on the line of the Union Pacific, for all points north to St. Paul, and with all eastern lines from Omaha.
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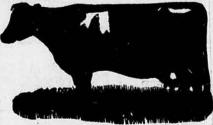
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19 Illustrated Catalogues.

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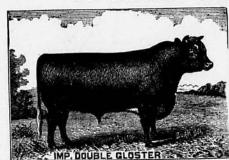
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