

ESTABLISHED, 1863. VOL. XXIII, No. 14.

TOPEKA, KANSAS, APRIL 8, 1885.

SIXTEEN PAGES WEEKLY. PRICE, \$1.50 A YEAR.

A Notable Herd of Cows. Kansas Farmer:

We send you herewith a cut of the group of the Aaggie family, recently drawn from life by the young American artist, Cecil Palmer. The original picture, of which this i a reduced copy, he pronounces the most natural and finest work of his life. Each animal was accurately and carefully drawn, giving a very close portrait of each as it then

ounces in a year.

Auggle Beauty 2d, commencing in February, at 23 months of age, when only a month out of quarantine, gave 9684 pounds 2 ounces in 11 months and 14 days, when she

was due to drop her next calf.

Aaggie May, 3 years old, has given this season 12,835 pounds 5 ounces in 10 months and 19 days.

Aaggie Kathleen, imported at the same

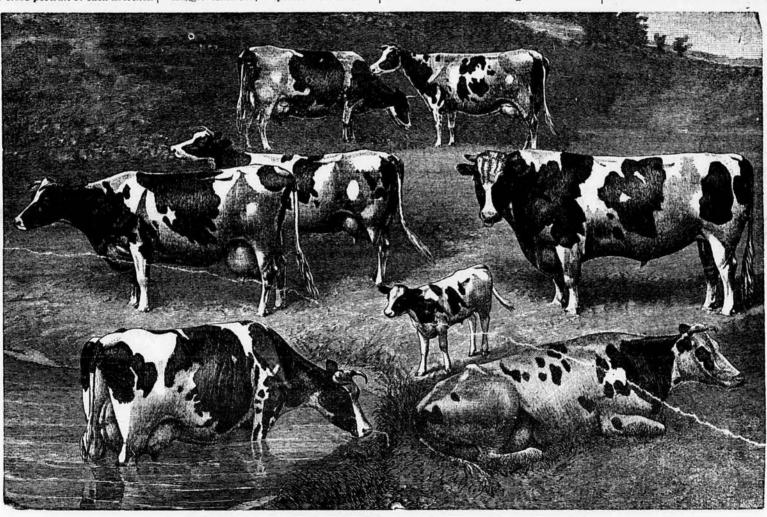
when 3 years old past, gave 13,573 pounds 15 beef, 915 lbs.; hide, 76 lbs.; rough tallow 126 lbs. Per cent. of dressed beef, 62 31-100; per cent. of offal, 24.

Little Wonder weighed alive, 1,493 lbs. dressed beef, 791 lbs.; hide, 78 lbs.; rough tallow, 124 tbs. Per cent. of dressed beef, 52 98-100; per cent. of offal, 33.

The butchers that purchased and cut up the carcasses of Signett and Little Wonder send us the following strong testimonial as

Whenever you see nice healthy hogs in a clean dry stable and a nice dry clover lot for them to run in during the summer season, just mark the owner down as being posted to some extent on hog culture, for profit and whenever.

Colts should always be put through the motions of being shod several times before they are taken to the blacksmith shop. This may seen like a very small matter, but if it were more frequently attended to there would be fewer horses that are "hard to shoe."



GROUP OF NOTED AAGGIE HOLSTEINS.

Property of Smiths, Powell & Lamb, Syracuse, N. Y.

appeared. This group consists of Aaggie, her son Neptune, Aaggie Rosa, Aaggie Beauty, Aaggie Beauty 2d. Aagle Kathleen, Aaggie May and her calf Horace, by Neptune. The Aaggie, we believe, is conceded to be the largest milking family yet produced by any breed.

Lady Clifden, a sister to Aargie, was the first cow ever known to have produced 16,275 bounds of milk in a year.

vas the first cow to produce 10,0 pounds in a year.

Her daughter, Aaggie 2d, is the only twoyear-old that has ever given 17,746 pounds in Angzie Clara, imported by us last year,

was the first two-year-old to give 65 pounds in a day. Aaggir Constance, the marvelous two-yearold, has given us, this season, 76 pounds and

6 ounces in 24 hours. Aaggie Rosa gave last year, the first season after importation, when not fully accil-

mated, 16 156 pounds 10 ounces. Aaggie Beauty, commencing in February, only a month after coming out of quarantine,

time, has given, in 10 months, over 11,400 pounds.

Several other members of this family have done equally well, but we will not extend the list. We think no other family can make a corresponding showing.

Our Netherland family has records nearly equal to the above, while the entire original Netherland family, all bought of one party in Holland, and all he owned, six head, have the leading families in the city in regard to whole number 17 pounds 61/4 ounces per week.

A few days since we caused to be slaughtered the recorded Holstein bull, Syracuse (822), calved April 24, 1882; the recorded cow Signet (1817), calved April 6, 1880, and Little Wonder (1788), calved May 4, 1880, with the following result:

Syracuse weighed alive, on day of killing, 2,290 lbs.; dressed beef, 1 430 lbs.; hide, 142 the,; rough tallow, 120 lbs. Per cent. of dressed beef, 62 44 100; per cent. of offat 26. He was killed by Messrs. Calfelz & Lenhart, Syracuse, N. Y.

Signet weighed alive, 1,470 lbs.; dressed

to the quality of the beef of these two cows: 'We were much pleased with the two Holstein heifers purchased of you last month. We have been in the meat business for the last twenty-five years and have killed all grades of cattle, the best we could find in this country, but never have we had any in quality that would equal those purchased of you. We have had a great many compliments from

Syracuse and Little Wonder had not been fattened for beef, and Signet we had fed for some time, but she was not what beef men would regard fat. Taking everything into consideration we think this shows decidedly to the advantage of Holsteins as beef ani-18 SMITHS, POWELL & LAMB. Syracuse, N. Y. mals.

The tendency of the American farmer to rush from one extreme to another is pro-verbial, but in nine cases out of ten, the man who sticks to his established economy, comes out ahead.

To suffer for having acted well, is itself a species of recompense

The further north any variety of apple will succeed, the fluer the color and the better-flavored the fruit. Choice apples originating at the North rarely, however, hold their merits when carried far South.

An Arab would as soon strike his wife or this daughter as his horse; and no animals in the world are fleeter, more enduring, or more docile in the performance of every task which is given them than the Arabian horse,

It has been discovered, recently, by medical men that "lump jaw," as it is called, or lumps found on the jaws of cattle, are sometimes caused by decayed teeth. It is not known how much the poor brutes suffer with the toothache. with the toothache.

Some teachers of penmanship now teach their pupils to write with both hands. The method of instruction is to make the pupil write his name in pencil, and then go over it with a pen held in his left hand. Constant practice gives proficiency.

The Poultry Keeper aftirms that a good sprinkling of a pint of sulphuric acid, diluted with a pail of water, will effectually purify poultry yards, if sprinkled in them. Disease will be well used and noxious gases destroyed. It effectually keeps cholera away.

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The Stock Interest.

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

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

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

111, Mo. 6—T. W. Harvey, Polled-Angus, Kansas City Mo. 8—Miller & Roddick, Herefords and Polls, Kansofty, Mo. 13, 14, 15—Jackson County Short-horn Breeders, ansas City, Mo. 718 and 19—Jas. Richardson, Short-horns, Kansas ty Mo. 72

ty, Mo. 20 — Powells & Bennett, Short-horns, Indepen-nce, Mo. 22 and 23—Jas. E. Richardson, Kansas City, Mo.,

May 22 and 23—Jas. E. Richardson, Association.

May 28—Leavenworth Short-horn Breeders' Association.

—Col. W. A. Harris and the Giffords, Short

HORSE-BREEDING--PRIZE ESSAY.

Among the prize essays recently published in the National Stockman, Pittsburg, Pa., is the following by H. H. Cunningham, Steubenville, Ohio:

The improvement of the horse has probably received more care and attention than that of any other domestic animal; and the effort to reduce his breeding to an exact science, while not by any means successful, has gained as much in practical results as in every other branch of stock breeding. The various uses for which a horse is wanted, and to which he is applied, make a greater call for variation in his make-up than that of any other animal; and in consequence there are more factors involved in the problem of his breeding than in the breeding of any other stock in common use. The hog is wanted for his meat alone, and in his breeding one point alone is aimed at—the greatest amount of meat at the least cost. The sheep has mutton and wool as the sole aim of its owner. Cattle are applied to a wider range of useful ends; but cheese, butter, milk and meat comprise the sum of the breeder's objects. But the horse, with the many demands made upon him for assistance to his owner, and the numerous and varied uses to which he can be applied, each requiring an adaptation of form, of size, or of special training of muscles, of courage, staying powers and endur-ance—and these acquired to a great extent by special breeding—makes his breeding the most difficult task that falls to the lot of the breeder. To make the horse breeder eminently successful in his calling requires a high order of talent, or the endowment of a peculiar instinct; and to the possession of this latter gift is owing more by those who have succeeded in making marked improvements in any of the breeds of domestic animals, than to any other cause. But even to these the knowledge and experience of others, and the application of known laws of animal existence and development, are of more use than to any other. Experience has demonstrated that there are certain laws that govern the propagation and perfect de-velopment of animal life. In fact it is true that all the operations of nature are performed by fixed and inexorable laws, and it is to the knowledge and application of these laws that we are to look for success, and to their violation for our failures, not only as stock breeders, but as farmers or followers of other

The first point to be considered in the breeding of a horse is to fix in your own mind an image of what you want to produce—that is, to have a specific object in view, and then work towards it, as well as you can with the materials at as well as you can with the materials at hand, making use of all the light you can get, in preference to working in the dark or at random. It is generally accepted as a result of the observation of all successful breeders, as well as others who have investigated the subject, that in all cases, as much depends on the investorable and the subject of some dividual animal. Some marge development of the subject of some dividual animal. like begets like, or the likeness of some ancestor. This, if not absolutely true, is nearer to it than any other known is nearer to it than any other known truth, and is the foundation rock on which improvers of live stock must build if they expect to succeed; and failure will always be the reward of those who neglect or depart from it in any considerable degree.

Accepting this as the starting point for success, the use of and advantage of the thoroughbred at once suggests it-

with the least known variation. And it is well to note here that while the stud book is useful as a record of pedigrees, and is a proper and acceptable proof of purity of blood, it should not be the only standard of selection; as in addition to purity of blood, we should always require individual excellence in the animal himself. If for speed—performance by himself, his ancestors, and above all his progeny, should be made matter for inquiry and have due weight in the selection of both sire and dam.

The selection of a thoroughbred ani-The selection of a thoroughbred animal for at least one of the parents is desirable if it is possible to obtain it. If this cannot be done, the next best selection for a sire is a horse known to possess the qualities you desire, and if possible from a family distinguished by like qualities; and if he has been in-bred in the family he is all the more valuable, as his prepotency for transmitting ble, as his prepotency for transmitting his own qualities in enhanced thereby.

Look well to soundness, as all blem-ishes and unsoundness, unless the result of accident, are as likely to be transmitted as any other characteristics of the horse. But if I had a choice between horses otherwise equal, I would reject the one with accidental blemishes or unsoundness, deeming it much the better course to pursue. His powers of endurance should also be known. And do not neglect to inquire carefully into his "mental and moral" endowments, for vices and the want of good "horse sense" are as much the heritage of the equine as the human race, are as transmissable as his physical conformation. and go as far in making up his value. If the best sire obtainable is not perfect n all of his parts (and few are), see that those in which he is most at fault are not the same points in which your mare also fails; for in such a case the defect would not only be likely to be transmitted, but would probably be exaggerated in the offerning. A point in which ated in the offspring. A point in which your mare is deficient would on the contrary be benefited, if not bred out, if the sire was at fault in the opposite direc-

I believe it to be an advantage to select a stallion rather under than above the average size in the class to which he belongs, and, above all things, I would avoid an overgrown specimen; for in such an animal the growth is abnormal. Size has been attained at the expense of more desirable qualities, and would tell unfavorably in the offspring The possession of a few points should

always be insisted on in the sire and can be found in all breeds of horses. These are a kind disposition, tractability, plenty of vitality, energy and activity, or ease and grace in movement. No mere physical beauty will compensate for dullness, sluggish movements or vicious disposition, or even a stubborn one. A horse full of animal life and energy is almost contain to transmit these ergy is almost certain to transmit these qualities, even when bred to sluggish, stupid mares, while one of an opposite nature is likely to beget his own character even with a mare of opposite dispo-sition, and is "dead sure" to do so with one of his own temperament.

Second in importance only to the se-lection of the sire is that of the dam; and if the object in breeding is to obtain the highest possible results, to approximate as it were to absolute certainty in breeding, it is of equal, if not of greater importance, than the choice of a sire. The best results in breeding race horses, as shown by race winners (and that is the crucial test of the breed) have been obtained by breeding winning mares to winning sires themselves the progeny of winners. But as in common practice we are compelled to use such mares as we have, the best thing to do under the circumstances in which we are placed is the proper thing to do, And in this regard I would simply say to breed only from sound mares, and of proper age, dividual animal. Some mares develop earlier than others, and old age comes on much sooner in some instances than in others; and this being the case, I would suggest an intelligent application to the above rule. Old mares, or those afflicted with unsoundness, or transmissible blemishes, or those of bad form, and likely to perpetuate it in their offspring, I would either not breed from at all, or would breed to a jack, and ob-

tal and physical character of the offspring is determined by the mental and physical condition of the parents at the moment conception takes place. Conceding this to be true (and the weight of evidence inclines that way), we have a light to guide us that should not be neglected; and the matter of the condition of both animals at time of copulation becomes an affair of no small importance. Here reason and common sense teach us that both should be in the highest possible condition of health. and the mental condition a normal one. free from excitement or irritation. The highest condition of health, as well physically as mentally and morally, in the human subject, is obtained by regularity in distance of the subject. larity in diet and exercise, pure air and wholesome food, temperance in all things, and freedom from excess in any way; and what is true of men is equally true in regard to all other animals. In fact, is a law of animal existence.

It follows then that all stimulation of either sire or dam is injurious. In point of fact it is one of the principal causes of poor progeny from good horses, that they are stimulated beyond their natural limit while on the stand are them. ural limit while on the stand, are them selves in an unnatural condition, and must of necessity transmit their deficiencies. A stallion for stud purposes should at no time have any other treatment than good grooming, regular and abundant exercise (but not carried to the point of exhaustion) and pure food and water, regularly administered. The food should be of wholesome character. and given in such quantities as experi ence shall teach you suits his individual wants, and never to the point of cloying his appetite. He should be allowed to serve no more mares than he can attend to without visibly depressing his ener This is his natural limit, and he should not be pushed beyond it. To do so is an injury to the horse, his offspring, his owner and his patrons.

It is a very common thing that a horse is injured by too early use in the stud. A horse is not fully matured until six years of age and until then is not in the full possession of his powers. This is the time nature points to as the one at which the best results are to be looked for. His use before this period should be sparing, and the utmost care should be used not to weaken his powers. The sterility of horses overtasked while of immature age is common, and can never be cured; and the inferiority of the offspring of such horses is everywhere to be seen, if you take the trouble to observe and investigate. The progeny of such a horse will be noticed to deteriorate as the season advances. Those begotten early, while he is in full vigor, will excel those of a late date, when he

begins to fail.

The treatment of the dam while in foal is the next thing in order, and is a matter of no small moment to the future well-being of the foal. Good shelter and quiet quarters, safe from injury or annoyance from other animals, moderate daily exercise, a regular supply of healthy food, and access to water, are the principal requirements of a brooding mare. A variety of food is better than confinement to one or two articles of diet, avoiding always the putting on of too much fat, as that is likely to result in a colt that will be weakly, if not deformed, at birth. Also avoid falls, slipping on the ice, undue exposure to changes of the weather, and over-exer-tion, as these are fruitful causes of abortion, and are dangerous both to dam and colt. It is seldom that a mare needs any assistance at parturition, but when needed it should be promptly and intelligently given, as on this depends ts success.

The care of the colt from birth to an age at which it becomes of use is next in order. Moderate work for the dam, with generous feeding of milk-producing food is necessary, being careful not to over-work or over-heat her, and if possible avoid all cause of irritation or great excitement. This is about all that will be needed as regards the dam.

The colt will soon begin to nibble at the The colt will soon begin to nibble at the grass, or eat from the box with his mother, and should be encouraged to do so. He should be trained to the halter when a few days old, and taught to lead and to stand hitched, using a halter so strong that he cannot break it, and tying him so securely that he cannot untie the knot, teaching him thus at the outset to surrender himself to the will Accepting this as the starting point for success, the use of and advantage of the thoroughbred at once suggests itself. What we understand to be a thoroughbred is an animal whose parentage has been so bred through and for generations as to establish a fixity of type, and a prepotency for transmitting this fixed characteristic to other generations.

oats with hay will do, but green food would be better. At six months he should be removed entirely from his mother, and the process of weaning made complete, the previous month's treatment being intended as a preparatory course to avoid too sudden a change in his habits of life. Good have and colors. tory course to avoid too sudden a change in his habits of life. Good hay and oats is all that is needed for the first winter, making a liberal use of bran and oilmeal to keep his bowels in proper condition. And this is a point that should be carefully noted, as costiveness is the fruitful parent of many ailments that afflict him in his first year. afflict him in his first year.

Oats is pre-eminently the food for the growing horse, and should always be used when obtainable, if you want to get the best results from him. A colt should be so fed and handled as always to be kept growing and thriving, without any checks either from want of food food of poor quality or unsuitable to his needs, or from sickness. Another ex-treme should always be avoided, and with as much care as poverty of flesh; and that is excessive fatness, which usually occurs from too much fat-producing food, excessive feeding, or want of exercise. Fatness in any animal means disease, not health, and the worst of all places is to find it on the horse. Lay on all the muscle you can, but never allow yourself to be deluded into the folly of mistaking fat for it. The best of all places to raise a horse is in a pasture with running water, with a com-fortable stable where he can go in and out at pleasure, with such feeding in kind, quality and quantity, regularly given, as will keep him in growing condition at all times. If not so situated as to command the above conditions, you can modify them to suit your case. always taking into consideration the advantages secured by the above plan.

Security from accidents, healthy food, regularity in feeding and opportunity or exercise, are the main requirements of the growing horse; and none of these can be dispensed with in safety. Having grown a good horse, his value in market is determined by his education market is determined by his education as much if not more than by his breeding; and this is a point never to be slighted. A horse should never be broken, using that word in its general acceptance by horsemen. He should be taught to do whatever is required of him, beginning at an early age, and persisting with all gentleness and patience, until all you want him to know has been instilled into him, and in such a way as never to worry, fret or frighten him, arouse his temper, or provoke him to arouse his temper, or provoke him to resistance.

BERKSHIRE HOGS.

My herd now numbers about Forty Breeding Sowi and Four Boars, including representatives of the best families of the day, and also prize-winners at the leading shows of this country, Canada and England. have now in use in my herd sows that won in England in 1883, 1882 and 1881, and descendants of noted prizewinners 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 at ained by any other boar. I paid \$400 for "Duke of Monmouth." He is a splendid breeder, an animal of great constitution and comes from the same family as my old boar, "Lord Liverpool" 221, for whom I paid \$700, and who is now almost eleven years old and still alive. I have now a splendid lot of pigs from three to six months old, the bulk of which are got by "Duke of Monmouth." I would also spare a few of my sows, young or old, when in pig, and part of my breeding boars. 1 do not advertise prices as low as the lowest, for 1 can not afford to sell as low as those who bought a cheaper lass of stock to start with, but my prices are reas able and within the reach of all who know the value 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 mais at an equal cost as I have. I have issued a new oatalogue 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,

In the Dairy.

The Quality of Cheese.

A correspondent of the London Agricultural Gazette has the following very sensible remarks on cheese making and the comparative merits of old and new cheese. He says:

The sensible letter by an "Ex-Cheese Merchant," on the subject of Scotch cheddar cheese reminds me that criticism on and contrasts between Scotch cism on and contrasts between Scotch cheddar and Somersetshire cheddars may very well be applied to other descriptions of cheese besides that made on the cheddar principle. There is a prevalent opinion in the public mind that varieties of quality in cheese arise solely from varying degrees of skill in the makers. It seems to be generally assumed that given the same season of the year and the same management, milk made into cheese in one place will me year and the same management, milk made into cheese in one place will give like results with milk made into cheese in another place. This is by no means the case, and I am inclined to think that the specialty in Scotch cheddars of being "excellent carriers," alluded to by an "Ex-Cheese Merchant," arises from the fact that the northern climate and the northern herbage produce milk inferior in butter fats to the milk which is produced in the true home of the cheddars.

of the cheddars.

Much as I disagree with some of Archdeacon Denison's criticisms on modern cheese-making, I am convinced that he is right when he claims for the cheddar district in Somersetshire an "inherent capability" for a special manufacture denied to other localities. There are also other reasons besides those of climate and soil, more within the control of the cheese-maker, which the control of the cheese-maker, which, from time to time, cause that different qualities of cheese are turned out on the same farm, even when the mode of manufacture has been unaltered. Having now made cheese from the same ing now made cheese from the same land for nearly thirty years, the temporary effects which directly arise from the food which the cows eat, and the permanent effects which indirectly arise from the treatment of the pastures, have often come under my notice. I will say, in passing, that I am not at all surprised to find that impurities in milk are charged to the use of silage. I will go further, and say that I should be greatly surprised to find that the constant and exclusive use of sour silage stant and exclusive use of sour silage could ever give a pure flavored milk.

I remember well, some fifteen years ago, that a top dressing of mineral superphosphate and nitrate of soda applied to some twenty acres of cow pasture, gave an added richness to the milk that resulted in a slightly impure flavor in the cheese. The top dressing was quite successful as a durable improver of the successful as a durable improver of the grass, but it did injure a little the quality of the season's make of cheese. But the main lesson, which the experience of 29 years has taught me, is this: Pastures constantly enriched by added fertility, not only produce milk constantly increasing in richness, but the milk itself gives curd not only in greater quantity, but of greater fatness. In actual result, the cheese now made is ready for the market much sooner than ready for the market much sooner than that made during the earlier years of the period named, although the system of manufacture has been pretty much on the same lines.

This early maturity seems to me an unmixed advantage. I am quite prepared to grant that the public taste seems to me to have altered much since I first began above a making. It has also I first began cheese-making. It has altered still more since the beginning of this century. Our fathers and grandfathers kept over the winter the main bulk of the cheese made in the previous autumn; consequently the cheese then eaten by the public was a good many months old, very often a year old. Twenty years ago the cheese made from April 4. April to midsummer on this farm did not get into consumption before the middle of August. As a maker of cheese I have, with great pleasure, of late years, accommodated myself to the laste of the middle. The public asks for late years, accommodated myself to the laste of the public. The public asks for new cheese in June, and even in May. What is more, the public seems to me to be turning its back on old cheese, when it can get new. Certainly, I, for one, shall not keep my cheese until it is old, and sell it at a poor price, when I can sell it new at a better price.

Archdeacon Denison is right in preferring old cheese for his consumption.

ferring old cheese for his consumption.

I think that there are few articles of food at once so wholesome and nutri-tious as fine old cheese. For myself and for my family, old cheese is always re-

served. Still I do not think early maturity in cheese is necessarily a rault, like that which is generally associated with the saying, "soon ripe, soon rotten." If the manufacturing is regular and the curing perfect, cheese may be put on the market either new or old. Always supposing that its keeping is so managed as to fit it for sale when of-fered, the same dairy may turn out both fine old cheese and fine new cheese. If the public refuse to pay the price which old is intrinsically worth, no one will keep old cheese for sale keep old cheese for sale.

A good test on grass, and the feeding of grain night and morning, to a herd of Jersey cows, would be a source of valuable infor-

Do not sneer at "fancy" farmers. They pay high prices for good stock, and are bringing to this country the best to be found elsewhere.

So closely are the Jerseys being bred that a single line of ancestry answers for nearly all of them. And yet they continue to improve in yield.

Canada cheese beats New York cheese half a cent a pound in the New York market, simply because it is a reliable article. Honesty is the best policy, in cheese-making as in everything else. ing, as in everything else.

Major Brooke says, in the Rural Home, that more cherries, berries, peaches and grapes, and less pie, cake and meat, would lessen pain, prolong life, and greatly increase the mental and physical vigor of the

The Duty of State Legislatures.

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

Too many, in breaking their horses, put them immediately at work. This custom, while effective, destroys somewhat the tem-per and action of a horse. The most humane and profitable course to pursue is to make the work light at first, gradually increasing it until the full capacity of the horse is reached.

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

I have been bothered with catarrh for about twenty years I could not tell how many differ twenty years I could not tell how many differ ent remedies I have tried, and none seemed to reach my case like Ely's Gream Balm. I had lost my smell entirely for the last fifteen years, and I had almost lost my hearing. My eyes were getting so dim I had oget some one to thread m, needle. Now I have my hearing as well as I ever had, and can see to thread as fine a needle as ever I did, and my smell is partly restored, and it seems to be improving all the time. I think there is nothing like Ely's Gream Balm for fatarrh.—Mrs. E. E. Grimes, 67 Valley St., Ren drill, Perry Co., Ohio.

Mt. Pleasant Stock Farm, Colony, Anderson Co. Kansas,



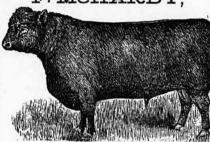
J.S.HAWES Importer and Breeder of

HEREFORD Cattle.

I have one of the largest herds of these famous cattle in the country, numbering about 200 head. Many are from the noted English breeders, T. J. Carwardine, J. B. Green, B. Rogers, W. S. Fowell, Warren Evans and F. Turner. The bulls in service are "FORTUNE," sweepstakes bull with five of his get at Kansas State Fairs 1882 and 1883; Imp. 'Lord Wilton' bull "SIR EVELYN.' own brother to "Sir Bartle Frere;" Imp. "DAUPHIN 19th," half brother to T. L. Miller Co.'s "Dauphin 18th," and "THE GROVE 4th," by "The Grove 3d."

To parties wishing to start a Herd I will give very low figures. Write or come.

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 breeders of Sociand—the Duke of Succleuch, the Earl of Galloway. Toos. Bigger & Sons, Cunningham. Graham, and others. I have thirt's head of young bulls, it for service, sired by the noted buill MacLead of Drumisnrig; also thirty high grade females of different ages that I will sell reasonably. Time given to suit jurchaser, if desired.

BREEDERS' DIRECTORY.

Ourde of three lines or less, will be inserted in the Breed or's Directory for \$10,00 per year, or \$5.00 for six months, each additional line, \$2.00 per year. A copy of the paper will be sent the advertiser during the continuance of the card.

T. M. MARCY & SON, Wakarusa, Shawnee county, Ka*. We now have li6 head of recorded Short-horns. If you wish a young buil or Short-horn cows do yourself the justice to come and see or write us.

CEDAR-CROFT 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 keys and Plymouth Rock Chicken office of Dr. E. C. Evans, in city.

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

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

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

L OCUST RETREAT FARM. Bacon & Campbell, Manchester, St. Louis Co., Mo., breeders of HOLSTEIN CATTLE and PLYMOUTH ROCK FOWLS Holsteins excel in milk, butter and beef. They are the all-purpose cattle. First-class stock for sale. Plymouth Rocks are the farmer's fowl. Pair, \$3.50; trio, \$5.00; eggs, \$1,50 for 13.

BROAD LAWN HERD of Short-horns. Robt. Pat-ton 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 castrated

U. P. BENNETT & SON, Lee's Summit, Mo., breed-colewold 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.

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

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

A HAMILTON, Butler, Mo., Thoroughbred Galloway cattle, and calves out of Short-horn cows by Galloway bulls. for sale.

J. W. LILLARD, Nevada, Mo., Breeder of Thor-toughbred Short-Horns. A Young Mary bull at head of herd. Young Stock for sale. Satisfaction guar-anteed.

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

Hereford Cattle.

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

SARCOXIE HEREFORD HERD. J. Gordon Gibb, Lawrence, Kas., importer and breeder of Hereford Cattle. Stock for sale.

CATTLE AND SWINE.

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

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 cata-ogue. H. B. Scott, Sedalia, Mo.

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

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

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

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

COTTONWOOD FARM HERDS,

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

SHEEP.



E. COPLAND & SON. Breeders of Improved American Merino Sheep. The flock is re-markable for size, constitution and length of staple.

Buck a specialty

Registered Merino Sheep, Bronze Turkeys, Light Byshma and Plymouth Rock fowls. Eggs for hatching. Catalogue free. R. T. McCulley & Bro., Lee's Summit, Mo.

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

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

A. F. WILLMARTH & CO., Ellsworth, Kas., breed-er of Registered Spanish Merino Sheep. "Wooly Head" 695 at head of flock. Choice rams for sale. Sat-isfaction guaranteed.

SWINE.

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

F. M. ROOKS & CO., Burlingame, Kas., importers and breeders of Recorded Poland China and Large Berkshire Swine. Bree.ing 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. Cail or write.

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

POLAND-CHINA SWINE AND MERINO SHEEP.

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

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

POULTRY.

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

J. M. ANDERSON, Salina, Kas. Bronze Turkeys, Plymouth Rocks, Pekin Ducks, Snepherd Puppies and Jersey Cows and Heifers. Write for prices.

EGGS FOR SALE—From Light Brahmas, Buff Co-chins and Flymouth Rocks, 13 for \$1.75; 28 for \$3, Also Pekin Du'k eggs, 11 for \$1.75; 22 for \$3, Also Emden desse eggs 6 for \$2; and Bronze Turkey eggs, 12 for \$3. W. J. McCoim, Wavelaud, Suawnee Co., & as.

BRONZE TURKEY EGGS-\$3.50 per 12. Our Tom weighs over 40 pounds. Plymouth Rock eggs, \$1.50 per 13. H. V. Pugsley, Platisburg, Mo.

FAIRVIEW POULTRY YARDS. Mrs. G. Taggart, Parsons, Kas., breeder of L. and D. Brahmas, B. Leghorns, Houdans, Plymouth Rocks, Laugsbans, P. Cochins, G. L. Bantams, Wyandottes and B. B. E. Games. Send for price list.

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

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

N EOSHO VALLEY POULTRY YARDS.—Estab-lished, 1870. Pure-bred Light Brahmas, Partridge Cochins, Plymouth Rocks. Egg-in season. Stock in fill Write for prices. Wm. Hammond, box 190, Emporia, Ks.

ONE DOLLAR perthirteen for eggs from choice Plymouth Rock fowls or Pekin ducks. Plymouth Rock cockerels \$2 each. Mark S. Salisbury, Box 931, Kansas City, Mo.

C. R. EDWARDS & BRO., Emporia, Kas., breeders, of high-class Plymouth Rocks and Partridge Cochins. Eggs, \$2 per 13. Correspondence cheerfully answered.

RIVERSIDE POULTRY YARDS.—Plymouth Rock and Partridge Cochin fowls for sale, and eggs during the hatching season. Watson Randolph, Emporia,

GROUND OYSTER SHELLS FOR SALE.
Five pounds, 5 cents per pound; 25 pounds. 4 cents
per pound; 200 pounds, 35 cents per pound. It is the
best egg-producer known. Give it a trial and be convinced of its merits. Also Pure Plymouth Rock
Eggs for sale—\$25 for 13; 43.50 for 28. G. H. Flintham,
71 Kline avenue, Topeka, Kas.

MISCELLANEOUS

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

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

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

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

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

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At Publishers' Prices, Postage Paid.

T. J. KELLAM. 183 Kansas Ave., Topeka, Kansas,

THE LINWOOD HERD

SHORT-HORN CATTLE



W. A. HARRIS, Linwood, Kansas,

W. A. HARRIS, Linwood, Kansas,
The herd is combosed of Victorias, Violets, Lavenders Brawith Buds, Secrets, and others from
the celebrated herd of A Cruickshank, Sittyton, Aberdeenshire, Scotland, Golden Drops, and Urrys, descended from the renowned herd of S. Campbelli
Kinellar, Aberdeenshire, Scotland, Also Young
Marys, Young Phyllises, Llady Elizabeths, etc.
Imp. Baron Victore 42824, bred by Cruickshank, and
Imp. Double Gloster head the herd.

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

Stock Show and Sales.

Special correspondence Kansas Farmer.

For several years past A. H. Lackey & Son have been making public sales of Short-horn eattle at Peabody, Marion county, Kansas, with considerable success. The energy and enthusiasm of this firm supplemented by their success has encouraged other farmers and breeders to embark in this profitable industry as breeders of improved cattle, so that to-day Peabody has become one of the most important and prominent stock centers for breeders and feeders of cattle along the line of the A., T. & S. F. railroad. It will be well for every reader to note one fact in this connection that has been very influential in the accomplishment of these important results, so desirable for every part of Kansas, and that is tame grasses and stock feeding. This should be a source of encouragement to every farmer in Kansas togo and do likewise. Peabody is situated 184 miles in the interior of the State and has a larger acreage of tame grass and a greater number of cattle and swine are fed for market than at any other point in the State known to the writer. During the past winter 2,200 cattle have been fed. Those already shipped have averaged from 1,200 to 1,400 pounds. The night I arrived to attend the show and sales, 100 head were shipped to Kansas City that made an average of 1,448 pounds. To feed this lot of steers 132,000 bushels of corn was required besides that fed to several car-loads of hogs and over 7,000 sheep that were fed in this vicinity. Think what a home market for corn and tame hay and at paying prices for the producers. The tame grasses grown here are orchard grass, timothy, red clover and alfalfa; and some or all may be found on nearly every farm in the vicinity of Peabody.

The writer could not observe these facts and let them pass unnoticed because they teach too valuable a lesson to Kansans; However, the object of the visit was to attend the combination sales advertised by A. H. Lackey & Son, Henry Blakesley, A. J. Hesson and others, in connection with the spring meeting and show of breeding stock under the auspices of the Marion County Agricultural Society. This venture of making an exhibition of breeding stock in the spring was a new departure for Kansas and must commend itself to other agricultural societies. There was on exhibition in the horse department in the general-purpose class one stallion by Scott Bros., one by Frank Island, two by Geo. Shoe, Newton, and one by E. Slaymaker; one mare by Steve Goodrich, and mare and colt by J. W. Wibley. Roadsters and trotters-one stallion, Oliver Goldsmith, by R. B. Graham; one stallion by L. S. Tucker. Normans-A. D. Kern one stallion; J. D. Webe, Hill-boro, one stallion, mare and colt. Clydesdales-Robert Ritchie, two imported stallions, and Wm. Ward one stallion.

Two pens of Merino sheep were shown by Charles Stern, Pegbody. Henry Blakesley showed fifteen head of Poland-China swine and A. H. Lackey & Son forty head of Berk-Fires. In the speed ring there were eleven

In the cattle department nine head of Holsteins were stown by Charles Stern and F. H. Kalleck Six head of Jerseys by S. F. Letton, Paris, Ky., and C. Kizer & Son, Emporia. The Herefords numbered fift en head and were owned by J. S. Hawes, Colonv, except one owned by C. Kizer & Son. Twelve excellent Gallowav cattle were shown by F. McHardy & Son, Emporia. Blakesley and Abilo Hunter in addition to 100 head on the grounds for sale.

THE SALES.

horns, mostly owned by A. H. Lackey & or as it should be done. and twenty-five Herefords, Jerseys and

hull Duke of Clarence, of the Beauty tribe, sold to J. R. Salmons, Larned, for \$200. Captain Kidd, 16 months, a Flora, Col. Bailey & Sons, Lapland, Kas., \$255. Blythesdale Prince, 3 years, a Lady Gale, to J. G. Morse, Peabody, \$130. Barmpton's Pride, 30 months, a Cruickshank, to C. S. Eicholtz, Wichita, \$475. Drand Duke of Bourbon, 6 years, a Young Mary, to J. M. Brehm, Hutchinson,

Col. Bailey & Sons, Lapland, Greenwood county, had a car-load of Short-horns for sale, but owing to their poor condition and not being catalogued, few sold and at losing

Goldburg, a Holstein bull calf, owned by F. H. Kallock, was sold to Geo. Cooper, Peabody, for \$230.

F. McHardy, of Emporia, brought into the sale ring a 14-months Galloway, MacLeod 2d, which was soon knocked off to Bahntge & Kates, of Winfield, for \$750. He was as good a Galloway bull as ever graced a sale

The sales of Short-horns were not entirely satisfactory, and as they were not all closed out, Mr. Lackey announced that he would hold another sale the last of June.

HEATH.

Cooked Food--Hogs--Sorghum.

Kansas Farmer:

I read an article in the National Live Stock Journal of March giving the test purported to have been made by Mr. H. Gins back, of La Mars, Iowa, between cooked and uncooked food for hogs. The editor by his remarks seems to have some doubts as to the truthfulness of the report. I do not hesitate to believe the statement is correct. My own experience in former years taught me to be lieve that one-half the grain was saved by cooking both for hogs and cattle, but I also found that steaming was much better and less trouble when properly arranged. There is a decided advantage in the healthful condition of the stock as well as in the saving of the grain. It is claimed by most people that it is expensive and takes too much time, but I have learned that anything that is worth doing at all pays for doing well. I have also found that there is as much made and made easier by a correct system of saving as there is in making at a waste or wasteful making. If two hogs will fatten on the feed of one hog it would not take many of these same hogs to pay for the steaming apparatus, and then all the stock on the farm gets the same benefits. The team looks well and feels better; the cows give more milk and butter; the fowls lay more eggs and the washings are done with one-half the fabor.

On the same page of the Journal I a'so read a report that some sensible hog raiser made at the Indiana Swine Breeders' Association held last January with regard to the care of hogs. It trought to my mind the Indiana man who swept off all the premiums at our. State fair some years ago and he may have had a hand in the report. Good up-land ranges or lots with warm, clean beds and sleeping places, and above all plenty of fresh water, cool and fresh from the well every day or several times a day, and not require them to drink the filthy, unwholesome water about their wallowing places or stig nant pools full of parasites and germs of disease, just because they are hogs.

If farmers generally would pay out more money for such reading and less for that of less value, they would know more about their own business without spending years Seven Short-horns were exhibited by Henry and suffering innumerable losses to find it out. The great difficulty with most of us is we take too much on hand to do, and one branch or job is crowding another and we The combination sale included 100 Short- have no time to do anything in proper season ernment operations in and about Oklahoma.

It seems that hogs are

of September last, and especially tomy hogs, Fanson & Son, of Toronto, Canada. This with entire sati-faction. My broad sows have done finely, bringing fair litters and ern Kansas. They report the sale of a Shire have an abundance of milk; in fact, I think it has the opposite effect on them, as I have no touble in getting from two and a half to three litters within the year. While I am on the sorghum question, I will say that you made a mistake in the la-t number of the FARMER when you said that my favorite mode of curing was in the shock. I think it the poorest way and the mo-t labor. My favorite mode is to pile it in large piles on the ground laying each armful across the other, tops up, until the pile is large enough, or let it remain on the ground as it falls from the W. J. COLVIN.

Gossip About Stock.

The Springfield (Illinois) Jersey Cattle Club has decided that none but A. J. C. C. animals shall be sold at their coming sale on the 27th of May.

J. S. Hidden & Co. and A. A. Young, Greenleaf, Kas., and S. T. Counts and W. A. Travis, Topeka, recently purchased some registered Holsteins from the Holstein Association, Iowa City, Iowa.

There is no better feed for young pigs, after they have learned to eat, than good threshed oats. If given dry and alone, the pigs will chew at them till they get all the kernels, but they will swallow little or none ot the husks.

T. W. Harvey, Turlington, Nebraska, announces that on May 6th he will sell twenty choice Aberdeen-Angus females and ten bulls. He writes that he disposes of these to make room for a fresh importation now on the way from Scotland.

On April 23, 24 and 25, 200 head of highbred trotting and saddle horses, brood mares, fast trotters, roadster, coach and family horses will be offered for sale at Lexing ton, Ky., by Messrs. Brasfield and Johnson Send for their catalogue and attend the sale if you want this class of valuable horses.

J. A. Davidson, Richmond, Anderson county, gives the following: Hogs in this vicinity are all in good condition, but we are not having very good luck with early spring pigs. The cholera that was in places in southern Franklin and northern Anderson counties during the fall and winter seems to have run its course, has entirely ceased.

A Chicago dispatch dated April 3d, states: During the past week a large number of scabby sheep have arrived at the stock yards, the bulk of which, it is claimed, found their way to the Jackson street market in this city. One flock that had to be shorn before they left the West was so bad that they are now under the surveilance of the sanitary inspector at the stock yards.

Admirers of Short-horn cattle will be pleased to know that Col. W. S. White, Sabetha, Kas., proposes to offer at public sale a number of very choice Short-horns April 23, including some of his prize winners at the Kansas State Fair and the World's Fair at New Orleans. He has won enough money in premiums on his Short-horns to afford to sell cheap. Send for his catalogue and then go to the sale.

The third annual meeting of the Western Cattle Growers' Association was held at Dodge City last week. Upon comparing notes it was learned that upon the whole the losses on stock of the Association was not as large as many had supposed. It was proposed to unite with the Panhandle Association as a measure of economy, and arrangements were made to protect the As | the winds. sociation's interests in the prospective Gov-

B. F. Dole, Canton, Kas., for \$390. Wood- have made it my exclusive feed since the 1st and Daniel Wren, of Sedgwick City, and A. enterprise will prove a benefit to southweststallion to Messrs. Shriver & Clifford for \$2,500, and another to Wm. Wren, Marion, for \$2,450.

MacLeod 2d is the name of perhaps the best Galloway bull calf ever seen in the West. He was raised in Kansas by that "Galloway King," F. McHardy, Emporia. This young animal represents the very best Galloway strain of blood. He was shown at the stock exposition and sale at Peabody last week, and was sold in the auction ring to Bahntge & Kates, of Winfield, Kas., for \$750. Mr. McHardy has been handling this breed extensively and has now a few antmals for sale and very prop rly advertises them this week. Don't fail to see this herd if you want Galloways.

Dave Fox, sheep and swine breeder, Wichita, write us as follows: "Just a line to let you know that all the sheepmen in this county are not busted. Sheep generally in this locality I believe have wintered well. My own have never looked better at this season. Although the finger of scorn may be pointed at sheepmen I yet believe the business will pay well under good management. I am determined to make or break at the business. Our public shearing, the Arkansas Valley Wool Growers' Association, will be held at Wichita on April the 18th."

Let every reader who intends purchasing a mowing machine this season, send for the catalogue just issued by the Eureka Mower Co., Utica, N. Y. The Eureka mower is worthy of investigation.

Oats and Sheep.

I have made a decided improvement in the wintering of sheep, by feeding them oats instead of corn. So far, there has not been a single case of strenches (which is caused by indigestion and takes the form of constipation) or of diarrhœa, which is also the result of indigestion. The wool is more bright and glossy than when the sheep were fed corn. I am looking for more beneficial results from feeding oats when lambing red corn. I am looking for more beneficial results from feeding outs when lambing time comes, as there will be less fever and inflammation of the udder. The more healthy condition of the ewes will undoubtedly cause the lambs to be stronger and more active at birth. This confidence is increased by the fact that I recollect a number of

healthy consistion of the ewes will undoubledly cause the lambs to be stronger and more active at birth. This confidence is increased by the fact that I recollect a number of years ago giving a flock of ewes which were being fathened, two quarts of oats daily. Some of them proved to be with lamb and were not sold on this account. These sheep did remarkably well, dropping their lambs in the winter. They had abundance of milk and the lambs were strong and healthy. It is well to know that oats are a nearer all-food than corn, and if not quite so cheap they are so much healther that it is unwise to feed corn with so little difference. If I had fed oats last year, instead of so much corn, it would have made at least \$40 in I sees difference in the incoma from my small flock. The anniyance and il-teeting caused by losing the little thing is with me a great deal. It had not have the thing is with me a great deal. It had no have the from the want of profit. My sheep this winter are a delight. I like to be k a them. Their fleeces are all smooth, and the sheep are free from ticks, and seem so happy.

My sheep are all-wed to fo low their instinces in regard to exercise and out-loor exp sure in good weather. They are always shit in nights and string days. They have taught me that they are find of ont-doors only when the sun shines and there is nown accord when the wind blows, and always huddle up in the further cornered the stable if the wind blows in through the open door. It is the same law—none of our forms are to their own interests! How many thousands of dill as have been blowing winds of winter, and it is a less to emist forms a are to their own interests! How many thousands of dill as have been blowing winds of winter, and it is a less to emist form a sire to their own interests! How many thousands of dill as have been blowing winds of winter, and it is a less to emist form a sire to their own interests! How many thousands of dill as have been blowing the winds. Let me urge all unbe levers that such conforts are a n such comforts are a necessity, if there is to

ociation's interests in the prospective Government operations in and about Oklahoma.

Thomas B. Wales, Jr., Secretary of the Holstein Breeders' Association of America, Holsteins. Col. S. A. Sawyer did the auctioneering, but the attenance of buyers was including enough to realize very good prices, and as a result no Jerseys or Herefords were soil and one Galloway.

Fifty two Short-horns, one Holstein and one Galloway.

Fifty two Short-horns sold for \$5,865, an average of \$128.80; twenty-seven females made an average of \$126.80. The following "plums" of the Short-horns brought good prices and went to the lucky purchasers as follows: May 12th, a red Rose of Sharon heifer, went to Capt. J. E. Brown for \$305. The best bull sales were as follows: Rayenswood Lad, 40 months, a Flora, went to a female, but I think it is a mistake.

It seems that hogs are destined to take the next run or boom, and it is well for those an tioneering, but the attenance of buyers was tioned to take the next run or boom, and it is well for those an tioned to take the next run or boom, and it is well for those an tioned to take the next run or boom, and it is well for those an tioned to take the next run or boom, and it is well for those an tioned to post themselves on the subject of the best business even on a wall scale to post themselves on the subject of the best mode of feed-ing and handling. My opinion is that in the corn reads of the best mode of feed-ing and handling. My opinion is that in the corn reads of the best breeds and the best mode of feed-ing and handling. My opinion is that in the corn reads of the best breeds and the best mode of feed-ing and handling. My opinion is that in the corn region of the business even on a serie did the uncertainty from simple will, in future, only be registered for members of the Association of America, whose stream spar whe have who that sum have Buor obta Nea all 8ma

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About Wheat Growing.

The American Cultivator discusses the wheat problem seriously and says some good things. In considering the low prices of wheat, it says, it should not be forgotten that the world is always within a few months time of absolute scarcity of food. There are practically no great food reserves to be kept from year to year. That which we call reserve consists of only a few million bushels, not even enough to supply the world's demand for more than a few weeks at the farthest. It is the same with all kinds of food products. Should their production entirely cease, mankind would be brought to the verge of staryation in an incredibly short time. We never arrive at such a condition in these modern days, and there is no practical danger that we ever shall. Somewhere in the many countries where wheat is grown there will be a supply which, with more or less economy, will suffice for the world's

Some economy in the use of wheat is always needed. Cheap as wheat now is large classes of people do not eat this best of the cereals because they cannot afford it. This fact is important because it insures a demand which stands ready to take all that is or can be offered, provided the price is low enough. The cheapness of wheat now is without doubt introducing this grain into consumption largely where it was used only sparingly before. It is probably placing wheat flour on the bill of fare of those who have never before eaten it. This is a step in the march of progress that will never be wholly retraced. There is no sign even now that the world's capacity for wheat consumption is less than it has ever been. We have simply, by accidental coincidences of good crops everywhere, outrun for a little time the active demand. Yet should we grow even 10 per cent. less wheat than we did the past year, there would be actual and much higher prices than now obtain.

Is not this what we are drifting to? Nearly all reports in this country indicate a considerable decreased acreage, estimated all the way from 15 to 30 per cent. The smaller reduction above named would, with a crop per acre equal to last year, reduce our supply by upwards of 75,000,000 bushels. Should any cause reduce the yield, the reduction would be much greater. It is easy to see that in the ordinary course of events the chances are many for decreased yields of wheat the coming harvest. As last year's crop was above an average on a larger acreage, there is scarcely a possibility that it will be exceeded. With a reduced yield to correspond to the average in late years, we might easily have a deficiency of wheat greater than we have ever exported. Such a result would be a national calamity. Without wheat and flour to export we could s arcely maintain the balance of trade unless by exporting specie. We should probably export some wheat in any event, but it would only be by raising the price so much as to diminish its use and cause much suffering.

This would be the condition of our own country with a diminished wheat product, how clearly among the possibilities of the next few months. It is quite probable that the reduced acreage acknowledged in the United States is common to all wheat-growing countries. Wheat is no lower here than it has been comparatively in all other markets. If low prices have decreased sowing here, it is likely that the same result has followed elsewhere. We know that such is the case in England, where, in fact, decreased a reage has been the rule for many years. Yet, as before remarked, the tendency in this country and everywhere else is toward increased consumption of wheat, a tendency which its present cheapness has undoubtedly greatly accelerated.

In view of these facts we can readily see the unwisdom of journals which, for the good of the farmer, have advised a large decrease in wheat production, because wheat at present does not pay. If it does not pay how there is, perhaps, all the better reason for believing that it soon will. At any rate, farmers are fully competent to decide as to decreasing acreage of crops which they find to be unprofitable, without advice from outsiders. Smaller sowings of wheat last fall are evidence of that if any is required. If advice was needed on the subject it were better found in exhortations to sow more rather than less wheat, in order to make up

a probable deficiency coming as the reaction against the present low values.

The truth is that advice either way is almost in the nature of an impertinence. That farmers have sown less wheat last fall than usual is not necessarily from choice but from necessary. Farmers are not always able to do what they would like. Plowing, fitting the ground and sowing a large area in wheat costs heavily, as every farmer knows. This cost is more onerous with winter wheat, because it is longer after the money is expended before it can be relimbursed. Except in the one item of seed wheat, sowing a large acreage costs as much as it ever did. Year by year we are finding it necessary on wider areas to use expensive commercial fertilizers for wheat production. No matter how well they pay in increased crops, the cost has to be borne, and it makes wheat growing more expensive than it was when new land regarded the farmer with good crops for barely tilling and sowing.

Twenty-five years ago farmers in this country apprehended that the boundless plains of southern Russia, with soil practically inexing the farmer with good crops for barely tilling and sowing.

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Twenty-five years ago farmers in this country apprehended that the boundless plains of southern Russia, with soil pract

to the exclusion of our own product. It was said yery plausibly that we could not compete with the cheaper labor of the Russian serf. We do not hear much about Russian wheat production now. If American harvesting machinery had not been introduced into Russia that country would not be able to grow a bushel of wheat for export. Those inexhaustible soils do not produce the crops they once did. Unless better systems of farming are adopted, not even improved machinery can make Russia a formidable competitor in wheat production.

At the present time, the believers in permanently low prices of wheat talk largely about the great resources of India and Australia. All we can say is, we are very glad to hear the facts. Wheat is an excellent commodity to have, and, unless better farming prevails, our home wheatdemand is quite likely to increase as rapidly as our supply. It is scarcely probable that good farming will make more rapid progress in Australia and India than here, and upon better farming rather than the opening up of new fields for wheat production we must depend for the chief wheat supply of the future.

How a "Corner" is Worked.

How a "Corner" is Worked.

The speculators in the grain markets often engineer a rise or deciding in prices, almost entirely irrespective of the supply on hand or even of the crop prospects. Corn or wheat will frequently be quoted several cents per bushel higher for one min his deliveries than for other months. The newspaper reports may give the cause of these wide fluctuations as a "corner," a "gamide," or the efforts or speculators. Hence it may interest our readers to know how a "corner" in grain is worked.

Corners in grain markets are only possible when there is an excess of short sales. And,

Corners in grain markets are only possible when there is an excess of short sales. And, if one understands the theory and practice of short sales, he can readily understand the working of a corner. In regular business, when a man sells grain he actually has the grain to diliver, but in speculation a man sells what he has not with the hape of being able to buy and deliver the go ds at a cheaper figure. But every busined thus sold most be bought back at some figure, higher or lower, before the transaction as or can be closed. And right here is where the mischief comes in. In regular business, when a man sells anything that is the end of the transaction, but every speculative sale involves another buying transaction of equal size and amount. And this is called "selling shorts," because in such deals a man agrees to deliver what had on not yet own, and hence he is short or minus that amount of actual stuff and is compilled to buy it at anytic. and hence he is short or minus that amount of actual stuff and is compelled to buy it at some price. He can buy it the next day or he can defer it a menth or longer if he chooses. The man who sold September corn short in August, must buy back all that he sold before the close of September, or pay the price difference in money.

During last August or before, an immense am unt of corn was sold short in this market for September delivery. The price of corn that that time was thought to be higher than

am unt of corn was sold short in this market for September delivery. The price of corn at that time was thought to be higher than it would be when September came round. Wheat was so low, and the promise of the new corn crop was so good, that traders concluded there would be a drop of at least tencents a bushel, so that they all rushed in to secure a part of the prospective profits. And if the market had been let alone they would have come out all right. But after millions of bushels had been thus sold for future delivery, some parties put their be do together and bought up all the cash corn in the elevators and then went into the market and bid up the price, taking all that was offered and still bidding higher for more. Very soon some of the shorts aw the market going against them and began to buy back Very soon some of the shorts saw the market going against them and began to buy back at a loss what they had previously sold. This, of course, great y increased the number of buyers and sent the market up faster. After the boom was fairly under way no one

Cuts from barbed wire fence, cured with Stewart's Healing Powder. No scar or gray hair, 50 cts a box.

This, That and the Other.

Hopes and regrets are the sweetest links of existence.

There never was a mask so gay but some

tears were shed behind it. The rays of happiness, like those of light, are colorless when unbroken.

The first grain elevators of America were built in Chicago eleven years ago.

Vain glory is a stimulus that pleasingly titidates our heart, and finally tears it.

Sickness is often the moral cave, with its quiet, its darkness, and its solitude to the soul. A man that can be flattered is not necessa-ri'y a fool, but you can always make one of

him. Southern Russia is the chief source of the salt supply to the other governments of the

The farm animals of Great Britain repre-

of the United States. The moa, or dinornis, was a huge bird of New Z aland, the largest sp cimens being three times the size of an ostrich.

The island of Ceylon and the kingdoms of Pegu and Burmah contain almost the only ruby and sapphire mines of the world.

Jam's Watt congratulated himself that one of his stem cylinders only lacked three-eighths of an inch of being truly cylindrical.

The mountains round Great Salt Lake bear evidences of the existence at some early period of a much larger lake in the same lo-

A large amount of oil exists in the stormy petrel, and when fat, according to the Brun-nich, the inhabitants of the Faroe Islands use it as a lamp, obtaining their light from a wick drawn through the bird's body.

A collection of skulls from the southern hemi-phere has been studied in England, the most notable conclusion reached being that s me of the races of south Africa, Australia and the southernmost part of South America are remarkable for the smallness of their heads

Bayaria has enacted a law forbidding the marriage of couples who do not possess sufficient means to maintain themselves, or who, during the previous three years, have received help from the public funds, or who have not paid their quota of taxes, or regarding whom there is marriaged. ing whom there is reason to suspect that ir ub'e will result to the household from the want of sobriety, economy or love of work.



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Hair.

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Hair.

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The Bome Circle.

My Wife and I.

We're drifting out to the isles of peace;
We let the weary world go by;
We sall away o'er summer seas,
My wife and I.

We bear to rest in regions fair
The faltering spirit of the mind;
The kingdom wide of toil and care We leave behind.

The traveling nations rise and fall,
They lift the palm, they hear the rue;
Yet bliss is this, to know through all

That one is true.
They perish swift, the gala flowers,
The lauding people love to fling;
Waits silence, dearth and lonely hours, The once-crowned king.

But never shall he faint or fall Who lists to hear o'er every fate
The sweeter and the higher call
Of his true mate.
I hear it wheresoe'er I roye;
She holds me safe from shame and sin;
The holy temple of her love
I worship in.

I worship in.

We're drifting out to realms of peace; We let the weary world go by; We sail away o'er summer seas, My wife and I.
We sail to regions calm and still,
To bring in time to all behind
The service of exalted will, Of tranquil mind.

The fading shores grow far and dim, The stars are lighting in the sky; We sail away to ocean's hymn, My wife and I.

Temperance and Politics.

"There are, and can be, in the very nature of things, but two great political parties in the nation. The one finds its idols in the the nation. The one finds its idols in the past. It looks to a demagogue of a century ago as the exponent of its political fauth. It fondly adores doubtful dogmas long ago outworn in the rapid growth of the American Republic, and this to oppose all change, and consequently all growth—for growth is always a change. The other is the party of progress, of enlightenment, of civilization. It believes in holding fast to all political ideas that experience has proved sound and good and in rejecting those which we have outgrown."—Toledo Blade.

I agree with the above expression, but we differ in its application, inasmuch as the Republican party has rejected and opposed the reformation demanded by the best class of her constituents, and the result is the formation of a third party based upon the principles of moral reformation, leaving the old party an overwhelming majority, whose motto is rule and ruin-a majority who by the nature of their policies are aliens to patriotism, enemies of morality, whose chief sim is the destruction of all that is noble and

And do the representatives of this fast-decaying party call upon the Prohibitionists to return to this element of destruction? Can it be that they anticipate such a result? Impossible! "The die is cast." We do not put our hand to the plow and look back. The motto of this grand army of prohibition is onward, and as we advance we gather and will continue to do so as long enthere is one left (who has a spark of moral principle to kindle) in either of the old national parties. This is inevitable as a decree of fate. Their dissolution will be effected, leaving in them an element of destruction, that, having no principle, will unite in self-defense—a satanic host whose nature is the very antipode of all that is good, destitute of moral principle, devoid of conscience, treacherous, deadly. This is the foe which the solid South and the solid North, united in one solid phalanx, must meet in vital conflict. What this conflict will be, God only

Shall we presume to lift the veil and look for a moment on the national conflict with chop the combined powers of evil? A monster giant to whose strength the slave power was as an infant. From ocean to ocean, from every home where the destroyer has left the impress of his treacherous footsteps, there ascends a cry of sorrow, a prayer for succor. No foreign invader ever left such a universal trail of destruction-broken homes, broken hearts, ruined fortunes, ruined characters everywhere.

Shall we imagine intemperance to be a deep, turbid river, flowing through our coun-

Sea, it masses its strength until it stands a wall of iniquity reaching from the bottomless pit to the clouds above, casting its dark, foreboding shadow on all around? Imagine this great army of temperance go down into the depths of that shadow. What might befall them there? Have faith, O, doubting hearts, for as the Children of Israel passed through the Dead Sea, even so will this grand army pass through the treacherous gap and emerge into an epoch of glorious nationality, like unto the dawn of the milennial morning. Then, "A nation shall praise him." Then will this wall of intemperance, by the power of its own specific gravity, burst its restraining bonds, and rushing downward, bear with it its victims into the great gulf beyond. And with it will be washed out forever all the bitter memories of the rebe!-

Shall we lift the veil once more? Behold, where once flowed the "Mississippi of Intemperance" now flows a stream of pure, living water, amid fertile fields, and the voice of its waters is blended with the hum of industry, the song of peace and national M. J. HUNTER. prosperity.

A Contented Mind.

Having carefully read the paper read by Mrs. M. D. Morse, I would like to say a few word also. That line, "A contented mind is a continual feast," is very true, I think. A person who is always contented is generally happy; happy because, being contented, they are not forever complaining of how much they have to do, and do not fret because some other woman has a nice dress, or can keep more servants. In all things they see beauty where perhaps none other can, and their home is always happy because, however humble, it is home, and they try to make it so in the fullest sense of the word.

And as to having time to read, there are so many times a woman can take up a paper and read, it may be only a little at a time, but then you have something to think of while working. I have known many young ladies who wrote and received many letters until after marriage, then, one by one, they would drop off until she would have only one or two correspondents. When asked the reason, they would reply that they had no time to write. Now, I do not see why they can not find time. And there is much enjoyment in writing to and hearing from one's friends. I think if they would try to keep up the habit of writing that it would prove a pleasure.

Mrs. Hunter, if you have lived on the prai ries, then you also know what comes after the gloomy days, days when the sun shines, the sky is blue, the meadow-larks singing, and down by the river you hear the harsh cry of the killdees-just enough wind to wave the green grass; and as you look over the prairie you think how happy you are; and looking up at the sky you seem to feel that God is nearer to you than in the crowded cities, and you cannot help but thank him for your home upon the prairies.

Cake for Dessert.—A nice cake for dessert is made of three tablespoonfuls of flour, three tablespoonfuls of sugar, the yolks of four eggs and two tablespoonfuls of milk; mix smoothly and add the whites of the four eggs beaten to a stiff froth and the juice of half a small lemon. Bake in a buttered pan in a bottered pan in a hot oven.

Soft Gingerbread .- Four and one-half try, draining every hill and valley (as Rev. G. S. Hubbs so fitly describes it), bearing upon its bosom thousands of helpless victims? Shall we imagine the grand army of temperance whose united voice obstructs this furious current, and that, like the Dead

Home Suggestions.

To cure and heal a running sore, apply alum water twice a day.

For nose bleed, get plenty of powdered alum up into the nostrils.

Some ingenious mothers make very neat caps for the small boys out of the pieces of their suits. Lined with red flannel and neatly stitched, they save buying at the store. A simple remedy for neuralgia is to apply

grated horseradish, prepared the same as for table use, to the temple when the face or head is affected, or to the wrist when the pain is in the arm or shoulder.

Covers for small tea trays are scalloped around the edge and then button-holed with scarlet, brown, or blue, with little figures in the center, or corners are worked in the same color that is chosen for the border.

A good method to clean painted walls is to A good method to clean painted walsis to pulverize some Bath brick, and after rubbing a little soap upon a soft woolen cloth, dip it in the brick, and with it rub the walls. This will remove dirt without detriment to the

It is permitted to paint a bamboo stalk, or a crooked pear or apple branch, covered with blossoms, on a cracked looking-glass, so as to hide the unsightly crack and retain the glass for use. Upon a perfect glass flower painting is not considered artistic, but the blossoms and birds are to be kept within the frame. frame.

There is nothing better for a cut than po There is nothing better for a cut than powdered resin. Pound it until fine, and put it in an empty, clean pepper-box with perforated top, then you can easily sift it out on the cut; put a soft cloth around the injured member, and wet it with cold water once in a while. It will prevent inflammation and soreness.

To cme a felon, fill a tumbler with equal parts of fine salt and ice; mix well. Sink the finger in the center, allow it to remain until it is nearly frozen and numb, then withdraw it, and when sensation is restored renew the operation four or five times, when it will be found the disease is destroyed. This must be done before pus is formed.

The way to make a screen for a bed-room out of a clothes horse is to nail a coarse canvas all over it at the upper and lower edge and between the folding, perfectly tight; on this paste a lining paper if you are going to make a scrap screen, or nail chintz over it. In this way all the interstices are filled up, and it will be quite firm between the bars.

A Cowboy at Church.

A Cowboy at Church.

He was as fine a looking specimen of the Western cowboy as ever sinched a broncho, or threw a rope, and as he rolled into the Graphic office, with his big sombreto on one side, Mexican spurs jingling, and p-rsuader in his belt, we felt that nothing we could do would be too good for him. "Are you the religious boss of this ranch?" was the question with which he greeted us. We cheerfully answered in the affirmative, and as he rolled a cigarette with one hand, toyed with the ivory handle of his gun with the other, closed one eye and scanned the Taylor cylinder with the other, he continued; "You see I ranged over your last Sunday's campin' place, and concluded I'd take vour advice and go to the preach house. The last time I was in a herd of that kind was back in the States, at an old-fashioned Methodist roundup in the woods, where the sky pilot fired red-hot perdition among the boys, and knocked his desk out in three rounds, Marquis of Queensbury rules, and made a grand stampede on the whole herd. Well, I was lookin' for some deal of that kind, and figured that I'd have a picnic with the boys. But I didn't. I got left on that the first turn o' the wheel. I waltzed into that gospel factory with my sombrero over my eyes, but of it came on the first iump. I had on my cities, and you cannot help but thank him for your home upon the prairies.

BRAMBLEBUSH.

Household Recipes.

Graham Pudding.—One and one-half cups of graham flour, one-half cup of sweet milk, one egg, one teaspoonful of soda, one cup of raisins seeded. Add spice and salt to the taste, and steam three hours. Serve with lemon sauce.

Oat-meal Muffins.—One cup of oat-meal, one and one-half pints of flour, one teaspoonful of salt, two of baking powder, one table-spoonful of lard, two eggs, one pint of milk. Sift together meal, flour, salt and baking powder; rub the lard in cold, and then add beaten eggs and milk.

Beef Balls.—If you have cold roast beef chop it fine, season with pepper and salt, add one-third the quantity of bread crumbs, and moisten with a little milk; with floured hands mould the meat into balls, dip them in beaten egg and then in cracker powder and fry in butter; garnish with parsley and serve.

Cake for Dessert.—A nice cake for dessert is made of three tablespoonfuls of milk; pilk percentage and two tablespoonfuls of milk; pilk percentage and made the bard and two tablespoonfuls of milk; pilk percentage and made the best living the percentage and two tablespoonfuls of milk; pilk percentage and made the best living the percentage and two tablespoonfuls of milk; pilk percentage and percentage and two tablespoonfuls of milk; pilk percentage and percentage and two tablespoonfuls of milk; pilk percentage and made the best living the percentage and two tablespoonfuls of milk; pilk percentage and made the best living the percentage and two tablespoonfuls of milk; pilk percentage and made the best living the percentage and the percentage and percentage a ick, if he has rustled and made the best livin' he could when the range was short, will stand just as good a show to get in the blue grass paster as the slick Polled Angus that has been corn fed since he was a yearlin'. But be that as it may, bein' in that corral full last Sunday, and hearin' some things that had about escaped my memory, has done me more good than my feelin's will permit me to say. Only just say to the boys for me that takin' in that preach house and hearin' a few things they ought to, whether they believe them or not, is a derned sight better than loafin' around camp, ropin' long horns or breaking bronchos." And having finished

his fifth cigarette he touched his hat and left us wondering if we wouldn't better tell the boys his experience, and ask them to take his advice.—Harper Graphic.

How Long Ought a Man to Sleep?

How Long Ought a Man to Sleep?

The latest authority on this vexed question, Dr. Malna, says that the proper amount of sleep to be taken by a man is eight hours. So far as regards city life the estimate is probably correct. Proverbial wisdom does not apply to modern conditions of social existence. "Five (hours) for a man, seven for a woman and nine for a pig," says one proverb: and a second, quoted by Mr. Hazlitt in his English Proyerbs, declares that "Nature requires five; custom gives (allows?) seven; laziness takes nine; and wickedness eleven," These conclusions were, however, drawn from observation of country life. Physical fatigue is more easily overcome than intellectual. Which of us, when traveling in the country or abroad, or in any way separated from the ordinary processes of thought and anxiety, has not found that he could, without difficulty, do with a couple of hours less sleep than he was in the habit of taking? Men, however, who follow any intellectual pursuit, are exceptionally fortunate if the processes of restoration occupy less than seven hours. More frequently they extend to eight or nine hours. Grant, I see it stated, took never I se than seven hours. Goethe owned to requiring nine. Soldiers and sailors, on the other hand, like laborers, do with much less quantity. I am afraid to say how few hours the Duke of Wellington regarded as essential. A school-master under whom, at one time, I studied, a hardworking man at the acquisition of languages, proclaimed loudly that he never took more than five hours sleep. The hour at which he rose in the morning gave some color to this assertion. Only in after life did I discover that a two hours' post-prandial slesta was not included in that allowance.

So lightly still the mother sleeps

So lightly still the mother sleeps
That oft at night with gentle tread
She seeks the children's room, and keeps
A vigil by her darlings' bed.
The pillow smoothed, the blanket spread,
Each childish form tucked in with care,
A kiss for each—the silken head
Will fondly dream of mother there.

A mourning house, a vacant chair, A mother numbered with the dead, While little children kneel in prayer

Alone beside the tiny bed;
Yet not alone—for in the night
What mystic chords her footsteps bring!
They see her still in garments white,
And hear the rustle of a wing.

There is no remedy for time misspent;
No healing for the waste of idleness
Whose very languor is a punishment
Heavier than active souls can feel or guess.
O, hours of indolence and discontent,
Not now to be redeemed! ye sting not less
Because I know this span of life was lent
For lofty duties, not for selfishness.
Not to be whiled away in aimless dreams,
But to improve ourselves and serve mankind,

kind,
Life and its choicest faculties were given.
Man should be ever better than he seems.
And shape his acts, and discipline his mind
To walk adorning earth, with hope of

The timid hand stretched forth to aid A brother in his need, The kindly word in grief's dark hour, That proves a friend indeed;

The plea for mercy, softly breathed,
When justice threatens nigh;
The sorrowings of a contrite heart— These things shall never die.

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The Houng Folks.

Be Brave, Laugh Amid Difficulties.

Pouting, my darling, because it rains,
And flowe's droop, and the rain is falling,
And drops are blurring the window panes,
And a moaning wind through the lane is

and a moaning wind through the lane is calling!
Crying, and wishing the sky was clear,
And roses again on the lattice twining!
Ah, well remember, my foolish dear,
"Tis easy to laugh when the sun is shining!"

When the world is bright and fair and gay, And the glad birds sing in the fair June

weather,
And summer is gathering, night and day,
Her golden chalice of sweets together;
When blue seas answer the sky above,
And bright stars follow the day's declin-

ing,
Why, then, 'tis no merit to smile, my love,
"'Tis easy to laugh when the sun is shining!"

But this is the time the heart to test, When winter is near, and storms are howl

ing, And the earth from under her frozen vest Looks up at the sad sky, mute and scowl-

ing;
The brave little spirit should rise to meet
The season's gloom and the day's repining!
And this is the time to be glad, for, sweet
"'Tis easy to laugh when the sun is shining!"
—Wide Awake.

The St. Bernard Dog.

The St. Bernard Dog.

Tradition has handed down many instances of the remarkable acts of intelligence displayed by these dogs. How Bernard de Menthon founded the Hospice of St. Bernard, and established a breed of dogs which for centuries were kept for the purpose of directing wayworn travelers over the Alps. Much has been written about their finding people in the snow, but it was in following the track hidden by the passing snow-drifts that they showed so much sagacity, and by that means saved many lives which would otherwise have perished before reaching the Hospice. No certain information is given as to their origin, which must be regretted now that the St. Bernard has taken so prominent a position in canine history.

The most that is known, says Fred. Gresh-

The most that is known, says Fred. Greshan, of London, is that owing to an epidemic which decimated their numbers, and an avalanche which further decreased their ranks, few of the original dogs were left to breed from; and even about these little informatio can be obtained. At this time, in order to keep up the supply, it was found necessary to cross the then existing St. Bernard with some other breed of dog. Of what variety the latter was there is no positive record. It is suggested by some that it was the Newfoundland, while others aver that it was the Pyrenean sheep dog. The appearance of the race as it now exists in England points to the supposition that the Newfoundland was made the progenitor, and that the original St. Bernard having blood-hound character in its formation, accounts for the hair being reproduced in some while others have eyes like the Newfoundland.

Competent authority in Switzerland has established the few formation, sectored.

Competent authority in Switzerland has established the fact that it was in the thirteenth century the first Swiss dog was imported into England, but it was not till the present century that the breed gained a footing, and later, in 1862, that the famous dogs, Tell and Hospice, were imported.

The establishment of the club in 1882 to promote the breeding of St. Bernards finally settles the standard of points. The first exhibition of the society in England, held in the autumn of 1882, produced a large entry, though many of the exhibits were deficient in character. Great improvements have since been made, and 250 St. Bernards can low be benched possessing all the typical in character. Great improvements have since been made, and 250 St. Bernards can how be benched possessing all the typical points of the breed. In a perfect St. Bernard size is of great importance, the minimum height for a dog being thirty-two inches, and as this increases it is of so much more value provided there is substance in comparison. The recognized colors are manogany, red and gray, brindle, or orangetawny, the latter being the most showy when the white markings are fringed with black around the eyes and the ears are dark. The head, which indicates purity of breed, is square at the muzzle, with great depth from eye to lower jaw, and large in skull, with prominent frontal bones, showing a decided stop between dark, medium-sized eyes, the whole having a soft and benevolent expression. It is in the profile that the true character of the St. Bernard is to be detected, as, however wide the skull and muzzle may be from a front view, they are valueless unless the side face is correctly formed.

In formation of body the neck is lengthy and slightly arched with developed a stop better the stranger of the stranger of the part of the skull and muzzle may be from a front view, they are valueless unless the side face is correctly formed.

formed.

In formation of body the neck is lengthy and slightly arched, with dewlap extending from the jaw to the chest; the shoulders oblique, with wide chest and well-sprung ribs; the loin wide and muscular, with powerful thighs, well let down on hocks nicely bent; the tail carried rather low and not bent. The fore legs are straight and rather long from the pastern to the shoulder, with heavy bone; the hind legs, also strong, showing equal bone; the feet large and well set up, with toes close together. A peculiarity in the breed is the number of toes in the hind feet; in some few cases six have been found, the whole being on the ground, but as this is unusual, it is not a disqualification when five

are perfect. The coat in the rough variety is flat, and not too wooly, the thighs and tall being feathered, but not heavily. In the smooth the texture resembles that in the fox hound. Weight of a male dog, 160 to pounds; of a female, 135 to 150 pounds.

El Mahdi.

El Mahdi.

The man who now confronts the British in the Soudan was made a Khouan, or brother preacher, of the order of Sid Abdel-Kader about twenty years ago; five years ago he was elected by the council of the order to take command of the army in the South. He was thereupon proclaimed Mahdime (sublime), the "arm of the Almighty," and invested with absolute authority over the faithful, whom he promptly invited to join his forces under penalty of death. His name is Mohammed Ahmed, He was born in Dongola, Nubia, about 1840, and was educated at a religious school near Khartoum.

El Mahdi proclaimed his call to fulfill the prophecy touching the coming prophet of the South, and began to organize an army in 1881. The Governor-General of Khartoum commanded him to disadow his pretensions, and sent a small force against him to enforce the command. These he Mahdi soon defeated and dispersed. A second detachment met the same fate; then a column under Reschid Bay was destroyed to the last man. The following January he intercepted an Egyptian corps, on the way to Khartoum, and killed them all; in June, he annihilated another; and still another (under Yousef Pacha) in July. In every case the captured soldiers of the Khedive were given to the spears; native soldiers were absorbed into his own army, when it suited his purpose.

The next year El Mahdi overcame the Egyptian garrison at El Obeid, the capital of Kordofan, and killed them all, with the European officers in command. As a rule, Christian and Egyptian civilians, with their women and children, shared the fate of the garrisons. From El Obeid the Mahdi invaded Darfur, but returned to his capital to meet the Egyptian garrison at El Obeid the Mahdi invaded Darfur, but returned to his capital to meet the Egyptian garrison along the Nile, above and below Khartoum, which stronghold was closely invested and at last captured, despite the heroic defense of General Gordon. With the fall of these fortified posts, particularly Khartoum, the Mahdi has come into possession of steamer

The Go'd-Beater's Art.

The Go'd-Beater's Art.

If a sheet of gold leaf is held up against the light it appears to be of a vivid dark green color; this means that the light is transmitted through the leaf. When it is considered that this leaf is a piece of solid metal, a better idea of the extreme tenuity of thickness of the leaf can be comprehended than by any comparison by figures; nothing made by the hand of man equals it in thinness. The extreme thinness is produced by patient hammering, the hammers weighing from seven to twenty pounds, the lighter hammers being first used. When the true method of this beating is understood, the wonder expressed sometimes that gold-leaf beating should not be relegated to machinery ceases; the art belongs to the highest department of human skill and judgment. Apprentices have served a term, and have been compelled to abandon the business, because they never could acquire the requisite skill and judgment combined necessary to become successful workmen.

Here are the names of Kansas Governors in their order: Territorial, Reeder, '54; Shannon, '55; Geary, '56; Walker, '57; Denver, '58; Medary, '58; These men were all appointed for one sole purpose, to plant slavery in Kansas. Robert J. Walker was a man of the highest intellectual stamp. Geary made the greatest subsequent reputation as Governor of Pennsylvania, and as a Union General. Denver alone survives; we think he is still allye, and living in Ohio. In brains the appointed were superiour to our elected Governors. These latter have been: Robinson, '61; Carney, '62; Crawford, '64; Harvey, '88; Osborne, '72; Anthony, '76; St. John, '78; Glick, '82. Six Territorial Governors, covering seven years; eight State Governors covered twenty-three years; thirty years of organized political history.—Hi awatha World. Here are the names of Kansas Governors

An English naturalist asserts that the hedge-hog cannot be poisoned, neither strychnine, arsenic nor prussic acid having any effect upon it. It eats adders, regardless of their venomous fangs.

While boring an artesian well on the Rose-crans tract, near Los Angelos, the workmen discovered a deposit of conch shells at a depth of 160 feet.

Ba a Blood.

Young man, be a blood. If you desire to make yourself popular with the men and admired by the women, be a blood. Shake respectability. Never read anything. Learn to dance. Drink a good deal. Acquire the art of swearing ably and wink openly on the street at women of the class whose existence is ignored by their reputable sisters. Play faro. This will, of course, keep your pockets empty, but it will give you standing as a blood. Lose with a smile and chaff the dealer while your soul is in a panic on the subject of breakfast. Hang around the doors of saloons and chew a toothpick. Learn the habit of keeping your hands in your trousers' pockets. Be weary of life before you have begun to live it. When you are thoroughly disreputable and what brain nature has given you is sodden with whisky and your health is gone and you are old before your time, you will be a blood.

Napoleon's Carriage.

The carriage in which the first Napoleon made his famous retreat from Moscow, and in which he, as Emperor, set out from Paris in the campaign which closed at Waterloo, is now preserved in London among the effects of the Duke of Wellington. It is a two-seated conveyance, and the top, or cover, is lined with thin sheet-iron. There is also a front curtain of iron, which can be lowered at will. The wheels are large and heavy, and the steps at either side silver finished and of a curious design. The rear seat was the one used by Napoleon. Under the cushion of the seat he carried blankets and pillows. The back of the front seatopens, and at the right hand forms a small cupboard, in which were tin plates, knives, spoons, water can and a small fluid lamp. On the left is a long opening, extending forward nearly to the "dash-board," and into which the Emperor of the first nation of Europe was wont to extend his feet and legs, in order that he might lie at full length. The blankets, pillows, spoons, knives and lamps that were used by the Emperor are still preserved.—

Philadelphia Press.

Lassing Will Flenheats The carriage in which the first Napoleon

Lassoing Wild Elephants.

Lassoing Wild Elephants.

As soon as the jungle had been to some extent chopped and trampled down, so as to give a clear field for action, half a dozen tame elephants, with mahouts and noozers, were sent in to noose the wild elephants. The noosers managed with great skill the throwing of a stout rope made into a loop—as the cowboy uses his lariat—so as to catch each elephant in turn by the hind leg. The rope would be made fast at the other end to one of the tame elephants. As soon as the tame brute would feel that a catch had been made, it would start out at a cool, deliberate and unconcerned gait in the direction of the grand stand, where tying up was done, dragging behind it the captured animal. An elephant hauled along backward by one extended hind leg is at a serious disadvantage. It can not claw and hold on to the ground with any great effect. About all it can do is bellow, and that it does energetically and wofully. Whenever one made any great effort at resistance, a second tame elephant followed along, pushing with his trunk the struggling animal. Then each beast was tied up, and some of them grew quite furious. One little fellow after being tied up for twenty-four hours, was still so mad about it that he would grow almost frantic with rage when anybody went near him. In two days' more work the whole herd had been tied up, and the work of subjugation began.

A Dog That Had His Revenge.

One of those singular incidents of brute intelligence that now and then cause men to pause and ponder upon the inscrutable mysteries of creation occurred recently in the city of Allegheny. A gentleman residing there has two very intelligent dogs which he has trained to work in a tread-mill that runs his wife's sewing machine, thereby relieving her of that labor. The dogs take turn about at it, one working in the morning and one in the afternoon. The lady was recently making a masquerade ball costume, which, of course, she carefully guarded all knowledge of from her female friends. One lady especially had tried every means to find out what the costume would be, and an absolute enmity had grown up between the two. The other day one of the dogs was taken sick and the morning dog had to do double duty. To this he strenuously objected, but was whipped until he did the work. At the masquerade ball a few nights afterwards the lady was deeply charigned to see her rival wear a costume identically the same as her own. How she could have got the pattern remained a mystery until the ladies became friends again and the facts leaked out. It seems the dog knew of his mistress' desire to keep her costume a secret, and, resentful for the extra work imposed upon him, had watched his opportunity and taken the pattern to her rival in his mouth. After it had been inspected and copled he had returned it to its place under the sewing-machine box and carefully placed the scissors and thimble upon it as they had been. It really looks beyond the power of instinct. One of those singular incidents of brute

The drinking of large quantities of whiskey as an antidote for the bite of a snake, and which by many is considered very efficacious, proved entirely worthless in the case of a Georgia lad who was bitten by a reptile supposed to be a snake. The lad thrust his hand into a hole for a rabbit, which had been chased by his dog, when he was bitten.

A squirrel can run down a tree head first. The cat and the bear must get down tail first (if left to themselves.)

The standing armies of Europe aggregate 3,501,971 able-bodied men. The taxes for their support aggregate \$495,615,603.

A new motor, driven by the explosion of small charges of gun-cotton, has been pro-duced in England, and it is said to be appli-cable wherever small powers are required.

From surveys of the Gulf of Mexico it appears that its area is 595,000 square miles, and that the area of the surface included within the 100 fathom line is 387,000 square miles; rather more than one-third of the surface having a depth of less than 100 fathoms. The greatest recorded depth in the Gulf is 2,119 fathoms, the mean depth being 835 fathoms. 858 fathoms.

Nature tells of a canary that had been greatly annoyed by the hardness of the bits of cracker thrown into its cage. One day it lifted a piece of cracker and, taking it to the water trough, dropped it in and then stirred it about with its beak until it was in condition to be eaten. It now puts every hard substance which it deems eatable into the water. It endeavors to soften sweets in the same way, but finding that the sweet became gradually smaller and smaller, it hastily abstracted it, and has never since put anything of that nature into the water.

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Published Every Wednesday, by the

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Very good sirup is made from the seed of sorghum. Indeed, people have not yet learned all the merits of that

Rufus Potter, an old man in New machine to be operated by the wind, and that will draw several plows through the ground.

In a note from a friend in Cloud county, we learn that wheat is injured some by drouth. No chinch bug or fly in his neighborhood. Rye looks well and stock generally is in good condition.

Our information as to the condition of wheat leads us to believe that there will not be raised this year in Kansas more than two-thirds as much as there was last, and we would not be surprised if the amount is below that.

Dakota farmers have much trouble because there is no standard system of wheat grading recognized among elevatormen. A receipt for a hundred bushels of wheat marked to a certain grade at one place is good for wheat only, without reference to grade in Minneapolis.

John F. McCrady, corresponding secretary of Pleasant Valley Farmers Club, Harper county, writes that wheat in that locality is damaged some. Farmers there had finished oats sowing and some had begun to plant corn. His letter was dated March 31.

We learn that an old army comrade of the editor of this paper, Lieut. II. M. Robb, is an applicant for the office of Commissioner of Forestry in Kansas. It would please the FARMER very much to see Mr. Robb in a place that he is so well fitted by natural qualifications to

Grace F. Coolidge, a well-known contributor to the Youth's Companion, Wide Auake and St. Nicholas. has begun in the Philadelphia Weekly Press a department devoted to amusements for the home, social clubs, church entertainments, etc. The feature is meeting with great favor.

Business failures in the United States during the quarter ending March 11 per cent. over those of the same ing all of these things that he wanted, vision will be brought up to a high own party want him to "turn the rasperiod in 1884. The liabilities of the quarter just closed foot up \$46,181,951, bles, butter, eggs, and other things, against \$40,186.978 for the corresponding period last year.

From an interesting statement recently published by the Kansas Loan & Trust company, it appears that Kansas raised more corn-(190,870,606 bushels) -in 1884 than any other State in the Union, and it was better. Next below Kansas is Missouri, then Illinois, Iowa, Indiana, Nebraska, Kentucky, Tennesonly 300,000 bushels.

What are a Farmer's Wages?

When a farmer is asked what wages he is making he rarely knows what to say in answer. And there are several good reasons for this apparent ignorance. Not one farmer in a thousand keeps accounts with himself or with any department of his business. An exchange remarks-"We know of men who, after providing a living for themselves and their families, and spending several hundred to a thousand dollars in permanent improvements, which add just so much to the value of the farm, talk of not having earned a dollar a day simply because they have not been able to put away \$300 in the course of the year. Probably such a man, had he kept proper accounts, charging up all that he spent in the way of permanent improvements as distinct from current repairs, and all that his family consumed off the farm, at regular selling prices, besides what he paid the grocer and butcher and other tradesmen, would have discovered that he had made five or six per cent. interest on the value of Haven, Conn., says he has invented a his property, and paid himself a salary of \$1,500 or \$1,800 besides."

An ordinary farmer-one that cultivates eighty to one hundred acres of land, is about such a man as, if he were elected to a county office which would require all of his time, would be satisfied with a thousand dollars a year as salary. And he would probably believe that amount is more than he makes on his farm. Should he be so unfortunate as to be elected to such an office and move his family to town and live like town folk, he would soon discover that when he buys everything he or his family uses even to a dime's worth of lettuce, radishes or onions; when he goes to the market every morning or evening for a bit of ten to fifteen cent beef, and a nickle's worth of milk, that his cherries, gooseberries, peaches everything costs him a direct and immediate outlay of "cash money," he is not long in learning that there is no fortune to any man at a thousand dollars a year when he must pay for everything he uses, and he does not live as well or as comfortably as he did on the

This shows that his expenses are at least a thousand dollars a year and he kept them all nicely up on the farm though many times he did not have five dollars in the house. By thinking a moment he can see how all this happens. On the farm, he had a good garden, which secured all his vegetables and he had some to spare; he raised his own grain, and had some to spare; he raised his own cows and had milk and butter without expense; he raised his own poultry, and had spring chickens that were less than a year old, and they did not cost him a cent; be raised his own hogs, and always had plenty of pork for home use and a good deal to sell; he had beef when he wanted it, and mutten, and did not have to go beyond his own cellar or ice house for it; he raised his own fruit, and though he had plenty of it and more it did not cost him the outlay of a cent. Besides havhe sold pork, wheat. corn, fruit, vegeta- | standard of utility. with which he paid for such family supplies as he did not raise. Probably all his sales from the farm the last year before he took office did not amount to more than three hundred dollars, or one dollar a day for each of three hundred working days in the year. Unthinking persons would put that three hundred dollars against the one thousand dollars salary in town. But it only shows (supposing the living to be equally good see, Ohio, Texas, Pennsylvania, and so in both places) that what was raised of the house of representatives, was

least seven hundred dollars a year. And every year a well managed farm is worth more than it was the last year preceding. The increase of stock, the increased value of all permanent improvements, the more productive orchards, etc., all these and other growing values increase the farmer's capital every year, although he may not handle much money. A fixed salary is that and nothing more. As fast as it comes in it goes out unless it is very large and the recipient a prudent and frugal man.

A person never knows or realizes the value of a farm and its products until he leaves and turns his attention to something at which he receives money and only money for his services. He lives on a little patch of ground hardly large enough to hold his house. [City lots in Topeka are 25 leet front and 150 feet deep. With a little house, a couple of trees and a gooseberry bush, the land is occupied.] Family expenses are high. A small quantity of milk daily costssay ten cents; that amounts to \$36.50 a year. Another dime occasionally will pay for a little buttermilk. The milk bill of a single year for an ordinary family is about fifty dollars. On the farm that would be saved, therefore not counted as income. Such a family would use at least \$25 worth of eggs and an equal amount in small vegetables, as radishes, lettuce, celery, etc. There is one hundred dollars in a year for items that a farmer would not think about because he has them plentifully at home without cost as it seems, yet the bills show them to be one-tenth of a salary of a thousand dollars a year.

Looking at the matter in this light, one sees that a farmer's wages are the value of what he produces. Everything he uses is worth something. If he raised it, its value is part of his wages. There are thousands of farmers in Kansas now that are making much better wages than are the State officers that receive two thousand dollars a year.

New Commission er of Agriculture.

Norman J. Colman, editor of Colman's Rural World. St. Louis, Mo., 18 the new Commissioner of Agriculture. He was sworn into office last Friday.

Col. Colman is a very active, energetic man, and he is a warm friend of the sorghum sugar industry. Those who know his qualifications best have urged his claims strongly for appointment, and they believe, as the Washington Post expresses it, that the appointment of Norman J. Colman, of Missouri, to the Commissionership of Agriculture insures to that department a degree of administrative efficiency which, it may be said without disparagement to any of his predecessors in office, it has never enjoyed before. Gov. Colman is, in the broadest sense of the term, an educated farmer, and possesses the practical knowledge, the comprehensive experience and the range of agricultural information that peculiarly fit him for the position to which he has been assigned. The people may rest assured that the department is in the best of hands, and under Gov. Colman's super-

Col. Colman was born in 1827 near Richfield Springs, N. Y., and at the age of sixteen was teaching public school. In 1847 he located at Owensboro, Ky., and established a seminary. On account of illness he subsequently moved to Brandenburg, where he taught one year, and then removed to Louisville, where he taught school and studied law, taking his degree of Bachelor of Law and a license to practice soon afterward. Hon. M. C. Kerr, late speaker on down to Rhode Island that produced and used on the farm and not taken teaching there at the same time, and Rainfall less than one inch, though the into the account at all was worth at the two became occupants of the same depth of snow was four inches.

room, close friends and finally law partners at New Albany, Ind., where Colman afterward became district attorney. In 1855 he went to St. Louis, bought out the Valley Farmer, which, under the changed name of Colman's Rural World, he has since owned and edited. He suggested and assisted in the organization of the State Horticultural society, the State Board of Agriculture and other kindred organizations, of which he has repeatedly been elected president, as well as of the Missouri State Press Association. As a member of the State legislature, he took a prominent part in the exciting contests of the 1865-6 sessions, when the Drake constitution was enforced. He became, in fact, a leader in his party. In 1868 he was nominated for lieutenant governor. In 1874 he was arged by his friends for governor and was unanimously nominated for lieutenant governor and elected. He was a Union man during the war and served as lieutenant colonel of the Eighty-fifth regiment of enrolled Missouri militia. He is thoroughly fitted in every way for his new position and is in his fifty-eighth year. For twenty years he has been a close and intimate friend of Prof. C. V. Riley, the entomologist of the department.

The President and Appointments.

The new President is starting out well. He does not remove faithful officers. The policy appears to be to let them continue to the end of their term when he will appoint their successors. He re-appointed Mr. Pearson, postmaster at New York City-the most important (ffice of the kind in the country. Mr. Pearson is a Republican. This act is severely criticised by many of the President's party friends, who assert that the offices belong to Democrats. But the President argues that Independent Republicans were very serviceable in his interests last year, and that he owes them something. They asked the retention of Mr. Pearson, and they were gratified.

How long this kind of work will continue cannot be foretold. The President is a man after his own heart. He has demonstrated pretty clearly already that what he desires to do or to omit is pretty apt to be treated according to his own notion. When an obstinate man is right, he is the right man in the right place; but when he is wrong, he is the wrong man in the wrong place. Mr. Cleveland has the organ of firmness well developed. If he holds out as he begins the country will gain by his election. He appears to be in full sympathy with the spirit of reform which has been operating very satisfactorily several years in the civil service. The good work done and which may be done under the civil service law and rules can be better demonstrated by a Democratic President than by a Republican, because the good work was begun under Republican administration, and so long as that party remained in power, unimportant changes were not noticed, for it was "all in the family;" but when a Democratic President comes in and his cals" all out to make room for the outs," and he does not cut off an offcial term in the middle just to please his party friends, the people see plainly that after all civil service reform has taken root at the capitol city.

Professor's Snow's weather report for March states that it was the dryest March in 18 years-least rainfall, except-March 1879. The mean temperature was 1.23 degrees below the average. Highest temperature during the month 73 deg.; lowest 15 deg.; mean 40.55.

Evaporation is likely to take the place of drying in the preservation of fruits. It is proposed now by some persons to evaporate cane juice in the manufacture of sugar. Mr. Denton, of Bavaria. this' State, says such a revolution in method of manufacture is urgently demanded in the northern cane industry. Such a change will come and will be the salvation of the industry. I believe the method will be the same in principle as that which has so greatly assisted the fruit industry, namely, evaporation by hot air. There is no essential difference between fruit juices and cane juices; there is little difference in the percentage or quantity of water to be removed. In both cases the problem is to remove water without injuring the solids in solution in the liquid and thus condense the liquids, retaining their original value. This has been accomplished in fruit eyaporation, it has not yet been accomplished in evaporating sorghum juice. When it is as successfully performed, then sorghum will be an "economic success.".

As to the possible or probable competition between natural and artificial gas, a Pittsburg paper is of the opinion that so far as natural gas has been applied to the manufacture of iron, steel, and glass, the quality of the products is rather in its favor. For steam raising it is very superior to solid fuel, not merely in the lessening of labor and freedom from ashes, but in that the heat can be more equally distributed lengthwise and around the boilers, to the benefit of the latter in the matter of safety and durability. It is safe to say that the use of gas fuel in this locality now supplants the use of several thousand tons of coal each week, and there is no doubt that the use of gas fuel will largely increase in the near future. Coal proprietors who have depended upon manufactories for their business already feel the local rivalry of this wonderful and valuable agent for the industries, and this competition between coal and natural gas can only be measured by the gas developments of the future.

By way of explaining, or, rather, of demonstrating the constituent elements of wheat, the Indiana Farmer suggests that if we put an ounce or two or flour into a muslin sack and wash it in cold water till the water squeezed from it no longer has a milky appearance, there will remain a gray, tenacious, elastic mass which is semi-transparent when dried, and which will undergo a true putrefaction, like animal flesh, if kept moist and warm. If the water in which it was washed is suffered to stand quiet for an hour the starch will be found as a white mass at the bottom, with the clear water above it. If this water be carefully drawn off and slowly heated nearly to the boiling point, a pellicle or thin film will form over the surface, which will be found to be nearly identical with animal albumen as seen in the white of an egg, and like that substance it is soluble in cold water and coagulates with heat. Its composition allies it with the gluten group and not with the starch. If the water be now evaporated to dryness, a small quantity of sugar will be found remaining.

Commenting on what was reported as heavy losses of cattle on the northern ranges the Northwestern Live-Stock Journal says that a very large per cent. of the cattle thrown on the northern ranges last fall were from the western States, gentle and accustomed to being fed and cared for during winter. When the snow and piercing cold came they acce; timothy fifteen pounds; orchard naturally looked for protection and feed grass twenty pounds. Blue grass for

headquarters and line camps, wherever there was a human face to be seen or a stack of hay to be smelled. These weak ones lingered around the camps and died, while the stronger ones went onto the range and rustled. Tame cattle will hunt for a man rather than for grass on the open range. Hence cowboys coming along the road from camp to camp, attract these pilgrim cattle and they stay where they hope for help until they perish. For this reason there is seen along the highways, at the creek crossings, and around every house and stable in the vicinity of where States cattle were turned loose, a good many dead ones. But go out on the range and only a few are found.

Have Plenty of Grass.

Grass is the foundation of flesh. It is the beginning of a great many good things. A farmer without grass would soon wonder what he is here for. Every farm house ought to be in the midst of a beautiful lawn well sodded. Every farm ought to have a fair proportion of its surface always in grass.

The best field grasses for Kansas are red clover, timothy, orchard grass and meadow oat grass. Johnson grass is coming into favorable notice, and much is expected of it. It is a southern grass, however, and time will disclose its staying qualities with us.

Orchard grass seems to do well wherever tried. It comes early, grows fast; grows all the time till late in the fall, and makes a great deal of very good pasture.

Red clover is, perhaps, the best pasture grass known in temperate latitudes. It needs a good soil, and does better where there is considerable rain. The principal reason of failure with red clover in Kansas is unskillful cultivation. It ought to have a deep, well pulverized bed of earth to grow in. That is true, indeed, of all grasses, but it is particularly so with this variety.

Alfalfa is recommended by some farmers, and we believe it will yet prove to be very valuable in Kansas.

Kentucky blue grass and white clover are better for lawns, and early and late pastures. We have blue grass and orchard grass now in good stage for pas-

There is plenty of time yet for sowing grass seed. Prepare the ground as well as you would if you were going to raise a crop on which a great deal depends. It is not at all likely that the ground is too rich. Make it as rich as you know how; but if you expect grass seed to grow and amount to anything, don't mix up the soil with dry unrotted manure. Thin land, or hard land, or gumbo, may be made fit for growing crops by breaking up deep and covering in large quantities of strawy manure. But that requires two or three years. This article is for this spring, and we want the seed put on ground that is fit now. Then work it up fresh and in the best possible condition, and sow the seed and cover lightly with anything that will do the work, and if the ground is very loose, it is well to roll.

Sow plenty of seed. Don't be stingy in this matter. Put it down thick; it kinds of bulky food that stock prefer to it or will be as bread cast on water. And as soon as the young grass, or the young weeds, are high enough to cut, mow it off, leaving the stuff on the ground as it falls from the mower. Follow this up, repeating as often during the season as may be necessary to keep the weeds down and assist the grass in getting a good foothold.

As to quantity of seed, the usual figures are: Clover ten pounds to the

bushels and two or three pounds of white clover seed. These are usual figures. Be sure not to get less, and if you put on twenty or twenty-five per cent. more it is not lost.

Don't pasture any kind of grass the first year after sowing. Any of the seeds above named may be sown any time up to the tenth or fifteenth of May.

Inquiries Answered.

Cost of raising wheat is given by an Osborne county farmer at 31 cents per bushel.

Cost of raising beef in Kansas is given by Mr. Fullenwider at from 50 cents to \$4 per 100 pounds according to methods.

Professor Collier says that sugar can be made from sorghum at an expense as low as 1 cent a pound. But the manufacture has not reached that point yet.

Posts may be preserved by drying thoroughly and then boiled in coal tar, or saturated with coal oil. If a few holes are bored into the post and the oil is poured into them it will soon get into the wood when the holes may be plugged by oiled pins.

The quantity of grass seed per acre required for good seeding is greater in Kansas than in the Eastern or Middle States because more of it fails to grow here. Of seed like timothy, red top, orchard grass, blue grass, etc., twenty to twenty-five pounds per acre, and of red clover about twenty pounds.

SAUSAGES.-Here is one good recipe: To forty pounds of meat, take three-quarters of a pound of salt, one-quarter of a pound of black pepper, one-quarter of a pound of sugar, and one ordinary cup of good sage. Put in a large bowland mix. We sometimes put a little red pepper in the one-quarter pound of black pepper, and some would not like quite so much sage (provided it is good and strong. What I can get at common grocery stores is very poor indeed). Wespread the meat out on a large table, and mix well before grinding, then run through the chopper twice. To put them away, pack in small pots while fresh, and pour boiling hot lard over them. We used to cook them before packing, but it gives them a dry taste.

SALT FOR ANIMALS.—In poswer to a question why do animals need salt, we can do no better than to quote Prof. Johnston, of Scotland: "Upward of halfathe saline matter of blood (57 per cent.) consists of common salt, and this is partly discharged every day through the skin and kidneys. The necessity of continued supplies of it to the healthy body becomes sufficiently obvious. The bile also contains soda (one of the ingredients of salt) as a special and indispensable constituent, and so do all the cartileges of the body. Stint the supply of salt, therefore, and neither will the bile be able to assist digestion, nor the cartileges to be built up again as fast as they naturally waste. It is better to place salt where stock can have free access to it, than to give it occasionally in large quantities. They will help themselves to what they need, if allowed to do so at pleasure; otherwise, when they become "salt hungry,' they may take more than is whole-

SORGHUM CULTURE.-For feed, we give the method of N. A. Ensign, Harvey countv: "For winter feed or pasture sorghum should be sown thick, say one bushel of seed per acre. It will grow on fairly rich soil six to six and a half feet high, and stand as thick as timothy upon the ground, and yield from six to eight tons per acre. It can be cut and handled as easy as so much timothy grass. For best results this crop should be cut as soon as the head is fairly formed, and if well cured-which is not a difficult thing to do in our climate-there : re very few thrive better on. Sown as above described and cut as I have suggested, there will be no woody indigestible material about it. Stock will eat it as greedily and clean as the best timothy hay,-and as far as I can observe will do as well upon it. I have wintered eighty cattle, forty Cotswold sheep and nine horses almost entirely on this feed cut from eleven acres of sod ground. I never had so little feed wasted, and my cattle, sheep and horses never before did so well as this winter. I have not lost an animal or had one sick, which has not been my experience with prairie hay. My herd is composed of thorsuch as they were used to. Hence all pasture, twenty-five pounds per acre; of the weaker ones gathered about the but if for lawn, put on about three stock."

THE MARKETS.

By Telegraph, April 6, 1885.

STOCK MARKETS.

Chicago. The Drovers' Journal reports:

CATTLE-Receipts 4,300, shipments 2,000 The market was ac'ive and 10c higher Shipping teers 4 60a5 90, stockers 3 40a4 40, feeders 4 35a4 70, Texans 3 90a5 00

HOGS-Receipts 8,500, shipments 8,500 The market we firm and 5aloc higher. Rough and mixed 4 20s4 40, packing and shipping 4 50a4 65, ight 4 35a4 65, skips 3 60a3 75.

SHEE '-Receipts 4,500, shipments 1,5'0. The market was steady. Fair to good \$ 75a4 50, inferior 2 50a3 50.

St. Louis.

The Midland Journal reports:

CATTLE-Receipts 700 shipments 900. Supply small and quality poor, but prices steady and demand good. Exports nominally, 5 50a5 75, good to choice 5 20a5 75, common to medium shipping 4 50a5 (0, butchers' steers 4 25a4 80, cows and heifers 3 00a4 25, Colorado seers 4 00a4 50, stockers 3 50a4 90, teeders 4 25a4 75, corn fed Texans 4 00a

HOGS-Receirts 2,000, shipments 4,500. The mar-et was stronger. Yorkers 4 30a4 40 packers 3 9/a4 20, heavy 4 40a4 50

SHEEP—Receipts 500 shipments 900. Scarce and film; demand largely in excess of supply. Common to fair 2 7543 25, medium 3 40a3 65, good to choice 3 7544 40, extra 4 50a4 75.

Kansas City.

CATTLE—Receipts 965. Shipping grades 10c higher, butchers' and feeders steady. Exports 5 15a 54, g od to choice shipping steers 4 8 a 5 10, common to medium 4 5wa4 80, feeders 4 UQA4 50, cows 2 70a 3 70.

HOGS—Receip's 5 103. The market opened firmer and higher, Good to choice 413a4 0, common to mixed 4 0004 10.

SHEEP—Receipts 1,950 The market to day was steady, Fair to good muttons 2 50a3 25, common to medium 1 50a2 25.

PRODUCE MARKETS.

Chicago.

WHEAT—Active and higher, Sales ranged, April 773/a773/c. May 843/a843/c. June 821/a811/c. CORN Cash 381/a411/c. April 371/a823/c. OAT4—The market was stimulated by an advance in other markets, and ruled firmer. Cash 811/a22/c.

KYE-Firm, 6 c.

BAKILLY-Strady, 62a63c.
FLAX:SEED-Quiet, 139.

St. Louis.

WHEAT—The market opened very excited and higher with an active demand on ho h 10c and country accounts. No. 2 red 9Ja91½; cash, 89½s

9.5% May.

Olan-Was strong and higher buttransactions moderate, owing to small offerings. 39% 189% cash. 30% 10 April

Ovi Firm and higher, but slow; 32% cash, RYE—Nominal.

BARLEY Dull, 50a70c.

Kansas City.

96. SRIM: YOUNG America 647C: nats 5,4860; heddar 5,4860; Old or sharp 1 to 4c lower as toquality hansas and Missouri part skim flats 7a 8c; skim flats 8a POTATOES—We quote home grown in a small way at 75,850c phus. Consignments in car loads: Rarly Rose 62,850c, White Neshannock 5 a670c, Peachtlaw and other choice varieties 60,653:. Colora o stock 70,873:. Early Ohio 80c. Strictly choice seed putations 10,820c higher.

SWEET POTATOES—Home grown 1 15,31 20 for red per birs; yellow 1 20,3125 phus. Seed potations 35,940: phus. Seed potations 35,940: phus. Seed potations and the first part of the seed potations o

Borticulture.

FORESTRY--NO. 4.

INFLUENCE OF FORESTS ON WATER COURSES

By water courses will naturally be understood rivers and streams as they flow winding and coursing through the landscape, watering field and farm, driving machinery or bearing freight-laden boats and vessels. These bidies of water have their legitimate places and functions in the economy of nature which are of particular interest and importance, and when nature is evenly balanced in her wakings so that the water courses perform their normal functions, they contribute to the welfare of mankind in many ways. The great feature of their usefulness is their value as highways of transportation. They afford when navigable a safe and cheap medium of travel and transportation, both for commercial purposes and for pleasure.

Rivers, like lakes, aid in the work of nature as has been shown, by attracting ing results. rain clouds and causing the precipitation of rain showers in dry hot seasons to water the thirsty earth and parched of streams and rivers, and these forests vegetation, preventing sometimes the prevent the conditions of soil necessary loss of valuable crops. They serve also as natural drains to carry off the excess a gradual delivery to the streams as of water on the surface and within the was intended nature should operate. soil from which crops often suffer as well as from too little water. During very dry times the volume of water becoming less, their currents are slower, and instead of draining the earth as when they flow faster, the draining process is so far checked that the springs and ity are drawn upon very slowly so that when water fails at a distance it can themselves furnish stock water for large sections of territory. Timber grows more naturally and luxuriantly along rivers because of the moist condition of the soil at all times.

Rivers and streams aid largely as natural sewers to carry off garbage and having a cleansing effect upon the land sections from the stench of decaying matter constantly accumulating on their borders.

The many uses made of the water and the power of streams by the devices of the agricultural interests of the country. And finally, their beautifying efworthy of great interest and consideration as the morals of mankind are largely affected by their surroundings in nature.

When rivers are swollen by an unusual quantity of water following heavy and excessive rains, their force passes the limit of usefulness and becomes an agent of destruction washing away valuable lands, overreaching their bounds courrences are variously designated freshets, floods, deluges, etc., but are all alike destructive in a high degree, and any means whereby they can be prevented in whole or part are of both interest and importance to agriculturists, particularly though not to them alone. Here in Kansas the damage in the way of washouts is not as a rule so great as the hindrance to travel and the interference with business. The high rises of water in streams followed or alter-

water often experience a difficulty in navigation. The accomplishment of procuring a sufficient supply of water in | these ends also prevents damage to land the hot summer months. The cause of and to crops consequent to the overflow these extremes and irregularities of of streams, and it would seem that all flow of the water of rivers and streams these good results might be obtained is the absence of the natural agencies for regulating their flow, there being nothing to restrain and check the sudden drainage from the lands adjacent, or to preyent the unnatural swelling of their waters which too frequently occurs to a destructive degree, causing on the one hand floods and freshets with all their damaging effects and succeeding them by dry channels and dearth of water and consequent loss to stock and crops. The great need is assistance to nature to control the flow of rivers by efforts to build up and maintain the agencies that affect and control to some extent the elements and regulate the supply and flow of the lesser streams, so that the water of rainfalls is absorbed and held in check being allowed to flow off by regular and constant measure. preventing the sudden rush and damag-

Nature provided forests or timber lands to cover the earth in the vicinity to the holding of water of rainfalls for The retentive nature of forest soil which, as has been described before, serves the purpose of nature in this direction. The power of this soil to hold water prevents its too sudden drainage from the land into the water courses thus lessening the tendency to overwater strata of the earth in their vicin- flow and the extent of floods and their consequent drainage. This function of the forests is the agency that regulates usually be had near the streams which the flow of rivers by the gradual passage of water that falls upon the surface, making the streams less violent after heavy rains, and keeping up their volume in dry seasons. The destruction of the lands along the banks of rivers which often amounts to extensive and damaging washouts is very much filth falling within their reach or lessened and largely prevented by the washed into them, the heavy rains thus growth of trees along their banks, the roots permeating intricately and bindand purifying the atmosphere of their ing the soil in place by their thick network of fibers. By these means streams are kept in their natural courses without which they often change about lay ing waste large amounts of very valuable land, making serious inroads upon man, such as irrigation of the land, the the best parts of the farm for meadow supply of reservoirs of stock water, their and tillage. This action frequently power for driving machinery in various | renders portions of streams unnavigable ways, indicates plainly their value to by destroying their channels and washing up obstructions. Many rivers that might be navigable and important as fect upon the landscape makes them highways of transportation are by this means rendered useless for that purpose. With banks well protected by forest growth, streams are held to narrow beds, and the accelerated force this gives them frees their channels from accumulating obstructions, carrying off the loose deposit that so frequently fills up and bars small rivers, destroying their usefulness in many respects. Of the great value of rivers as highways of and sweeping away valuable property transportation it is unnecesary to speak and sometimes destroying life. These here, so well is that matter understood. And our effort is to show how they may be kept open for that purpose without resorting to the expensive means of dredging and kindred agencies, but by using the forces of nature to accomplish the desired end. The object of this writing is to show that forests along streams and rivers are intended by nature to protect the lands bordering on them from destruction and waste, and by keeping the banks strong and safe hold the waters to their natural beds nated with very low stages, which often and their courses open and free from occurs, interferes largely with the mill- obstruction by accumulating deposits; ing and similar industries. Stock de-'also to keep their flow equal and steady

pendent upon the smaller streams for to a degree sufficient to the demands of through the liberal planting of forest trees along the banks of and in the neighborhood of streams where from any cause they may be wanting.

FORESTER. Winfield, Kas., March 30, 1885.

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The Veterinarian.

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

INFLAMMATION OF BOWELS .- Neighbor had a ma e that was within six weeks of foaling. . She was taken suddenly sick, lying down and getting up as if attacked with colic, stretching her neck out and turning up the upper lip. In a few days att-r, she lost her colt. She would eat nothing, but was very thirsty. She died in about two weeks after taken sick. The owner thinks she was poisoned. We opened her and found the intestines filled with wind and water. intestines filled with wind and water. [From the symptoms and post mortem appearances as described, the true naappearances as described, the true hature of the disease which caused the death of the animal is not very apparent. We, however, cannot see any evidence of poison having been administered, and think it probable that the patient died from inflammation of the howels? bowels.

GRUB IN HEAD OF SHEEP.—Will you please give a remedy that will effect a cure of the grub in the heat of sheep? [Various remedies are recommended for the dislodgement of the larva of the oestrus-ovis (sheep bot fly.) In the early stages tobacco snuff introduced into the nostrils will, by causing violent sneezing sometimes cause the grubs to be prompily expelled. In some cases the horns are sawed off close to the head, the sinuses opened with a trochar, and some sweet oil flavored with turpentine, is noured in or the shear may be saiged. is poured in, or the sheep may be seized and the nose held up while a teaspoonful or two of a mixture of equal parts of or two or a mixture or equal parts of turpentine and sweet oil are poured into the nostrils. This requires some care, that the animal is not strangled by the fluid passing into the bronchial tubes. It is, however, very efficient treatment. To prevent the flies from depositing their eggs in the nostrils of sheep some men smear the noses of the sheep with tarduring the months of June and July: others run furrows across the field so that they can protect themselves from the flies by burying their noses in the

Laminitis.—What alls my Short-horn bull? He is six years old, and has been kept on a floor, winter and summer, for the past five years, and up to January 1st was in excellent health, weighing 2.200 pounds. At this time we put some smooth oak flooring in his stall. The bedding would get misplaced under him some of those cold nights, and he laid on the bare floor. He either got strained in getting up, or may be caught a bad cold and became stiff, as if he was foundered. We took him off the floor, but he lost flesh very rapidly, and for the past fifteen days has lost his appetite, and now weighs only 1.700 pounds. He lies down almost all the time, and only walks when we make LAMINITIS .- What ails my Short-horn pounds. He lies down almost all the time, and only walks when we make him. Some days he bloats up, and is rather inclined to scour. [After a careful review of the history and symptoms of the above case, we think it probable that the patient is suffering from the disastrous results of a protracted attack of acute founder (laminitis), which no doubt has been induced by high feeding. doubt has been induced by high feeding. the constant standing on hard plank floors, undue exposure and want of sufficient exercise. The frequent bloat-ing and tendency to relaxation of the bowels are indicative of some functional derangement of the digestive organs, which looks as if the disease of the intestines might have been transmitted to the feet, thus constituting what is known as metastatic laminitis. The disease is of so long standing, having existed now almost three months, and the probable alteration of structure in the diseased parts, which as a rule is a common result of unrelieved attacks of this character, leave very little hopes for the ultimate recovery of the animal. We suggest that the patient be kept on a soft ground floor. If he is inclined assume the recumbent position, plenty of bedding should be provided. Be careful about feeding until the stomach and bowels have resumed their natural condition. Bran mash seasoned with salt with a little hay will be very good. To correct the flatulency and restore the digestive functions, the following may be given three times a day. after each meal: Hyposulphite soda, 1 oz; fluid extract golden seal, ½ oz.; fluid

Vitality of Great Men

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

PLEASANT VALLEY HERD

Pure-bred Berkshire Swine.



I have thirty breeding sows, all matured animals and of the very best strains of blood. I am using three splendid imported boars, heared by the splendid prize-winner Plantagenet 2919, winner of five first prizes and gold medal at the leading shows in Canada in 1881. I am now prepared to fill orders for pizes of either sevent attaction guaranteed. Send for catalogue and price list, free.

S. McCULIUGH, Ottawa, Kansas.

JAMES ELLIOTT Abilene. : Kansas,



Breeder of HIGH CLASS BERKSHIRE SWINE Breeder of HIGH CLASS BERKSHIRE SWINK. My herd is composed or twenty breeding sows of the leading families known to fame, headed by Earl of Carisle 10459. My hogs are noted for size, uniformity, fine heads. broad hams great depth, with short, strong legs. They are perfectly marked, having good coats of hair; with quality of bone tint enables them to carry great weight, combining queck and easy feeding qualities. Stock all recorded in A. B. R. I am now prepared to fill orders for pigs, of either sex. Prices reasonable. Correspondence and inspection invited.

PURE-BRED Berkshire & Small Yorkshire SWINE.



We are breeding 25 of the best selected sows of the Bove named swine to be found in the country, direct secondants from Imported Strees and Dans. We are repared to fill orders for either breed, of both sexes

at the erry lawest prices.

If the erry lawest prices.

We have tries all Yorkshires thoroughly, and are satisfied that they cannot be xeeled as a profitable hog to raise. They are very docile and mature rapidly. Send for prices and catalegue to

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

Pioneer Herd of Holstein Cattle

DUROC JERSEY SWINE.



For beef, butter, and cheese, breed HOLSTEINS.
For largest return on money invested in swine, breed DUROC JERSEY. Choice registered animals for sale by WM. A. GARDNER, Oregon, Mo. Correspondence solicited. When writing mention this paper.

YOUNG SOW. Bred to our crack Boars;

If you want YOUNG BOAR Pig;

If you want A YOUNG SOW Pig;

If you want to place an order for A SPRING PIG:

SETTING OF Plymouth Rock Eggs, at \$1.50;

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

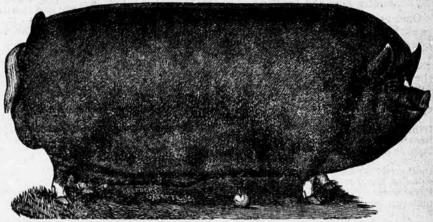
Write to MILLER BROS. Junction City, Box 298. - Kas.

Acme Herd of Poland Chinas



At the head of our select herd of 25 matured sows, stand two noted boars, Kentucky King 2661 and Challenge 4939, both prize-winn rs, and for individual merit unsurpassed in the State or elsewhere. Stock of all ages generally on hand for sale. Pedigrees "gilledge," prices reasonable and satisfaction guaranteed Address STEWART & BOYLE, Wichita, Kas.

Manhattan Herd of Berkshires



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

SOVEREIGN DUKE 3819, at head of famous Manhattan Herd. Among many other honors, elsewhere, this splenoid sire won five blue riobons during two successive years at the great 8t. Louis fair, including sweep-stakes as best boar of any age or breed, each year,—a record never sitained by any other boar. At the 8t. Louis and other leading fairs of 1832, the Manhattan Herd sustained its well-earned prize-winning reputation of former years by winning a majority, over all competitors, of the premiums competed for, being 13 sweepstakes and 58 prizes for that year.

Until the prement time I have been unable to supply the demand from some fourteen States and I will sell state to what a boar 40 very choice young Boars and Sows old enough to use, that I will sell states to suit the times.

A case of Cholora has never occurred in my Herd, which has come through the past severe winter in very thrity condition. Twelve different families of Sows and five noted Boars in use. Satisfaction cuaranteed.

A. W. ROLLINS, Manhattan, Kansas.



TIMBER LINE HERD -OF-

HOLSTEIN CATTLE and POLAND-CHINA PIGS.

We have on hand 156 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-id mikers. We guarantee satisfaction. All cor-respondence answered. Inspection invited.

W. J. ESTES & SONS. Andover, Butler Co., Kas.

Poland-China and Berkshire THOROUGHBRED POLAND-CHINAS HOGS.



We have for sale a fine lot of Poland-China and Berkshire Pigs, from 2 to 6 months old. Ours is the Largest herd of pure-bred Swine in the State, and the very best strains of blood of each breed. If you want any o our stock write us and describe what you want. We have been in the business many years, and have sold many hogs in this and in the states, and with universal satisfaction to our patrons. Our hogs are fine in form and style, of large-tock, quick, growth, good bone, hardy and of wonderful vitality. Our Poland-Chinas are recorded in the American Poland-China Record.



Chester White, Berkshire and Foland China Pigs. fine Set ter Dogs, Scot h Collies Fox Hounds and Beagles, Sheep and Poultry, bred and for sale by W. Gibbons & Co., West Chester Co., Pa, Send stamp for Circular and Price List.

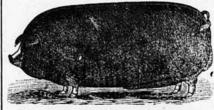
Dr. Thomas Blackwood,



Breeder of POLAND-CHINA SWINE. My Poland-China herd numbers overs over 75 head. My stock is first-class, all registered, and guaranteed just arepresented. Choice breeding stock not akin, of both sexes, for sale at all times at reasonable prices. All correspondence promptly answered. For full particulars and prices, address,

THOMAS BLACKWOOD,

Clay Center, Kansas,



RANKIN BALDRIDGE, Parsons, Kansas,

Breeder of Pure Poland-China Hogs. This berd is remarkable for purity, symmetry, and are good breeders. Black Jim, a prize-winner, bred by B. F. Dorsey, heads the herd. Stock recorded in Central Poland-China Record.



As produced and bred by A. C. Moore & Sons, Cunton, III. The best hog in the world. We have made a specialty of this breed for 38 years. We are the largest breeders of thoroughbred Poland-Chines in the world. Shipped over 700 pigs in 1883 and could not supply the demand. We are raising 1,000 pigs for this seis-on'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.



ISAAC WOOD. Oxtord Kas.—PIONEER—
The sweepstakes herd of the Southwest for three consecutive years. Comprising the blood of all the popular strains of the day. Six years a specialty. Pige furnished not of kin. Quality of stock and pedigrees first class. Prices low, and favorable rates by express to all points. Pige of different sges ready to ship, and orders taken for future delivery. Satisfaction guaranteed. For history of herd, see Vol. IV, page 31, Vol. V, page 47, and Vol. VI, page 37, Ohio P.-C. Record.

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 space with latest improvements of the favorite breed. Personal inspection solicited. Corres-(avorite breed, Personal Property answered, pondence promptly answered, FILLEY, Proprietors, KINGMAN, KANSAS.



REGISTERED POLAND-CHIMAS. 62 Page Illustrated Manual. Sent free on application to ander, Charleston

The Poultry Hard.

Poultry Feed and Feeding.

One prime essential to success in poultry raising, says a late writer, is a system of feeding, that will be most economical and at the same time, yield the most profit. Our chief reliance for the support of our poultry is grain of different kinds, for these contain the greatest amount of nutriment in a concentrated form.

But while contain contains

But while grain contains all t'e nu-triment necessary to sustain animal life, it will not do to feed on grain alone; life, it will not do to feed on grain alone; bulk is as much required as nutriment, and must be considered in feeding our feathered flocks. Grass is a favorite salad of the fowls in summer, and we have seen with what eagerness they pick up stray hay leaves, and chaff, found upon the barn floor and about the barn yard in winter.

It is absolutely necessary that fowls

It is absolutely necessary that fowls should have some kind of vegetable food in winter. Chopped potatoes, onions or cabbage, is an excellent substitute, for the grass and herbage they get when abroad in the spring and summer months. and which they cannot provide for themselves when confined to winter quarters. One of the best things for winter use we have found to be fine hay or "latter crop," cut very fine by running through a hay-cutter, being very useful in furnishing that bulk to the diet which is so necessary to the It is absolutely necessary that fowls

very useful in furnishing that bulk to the diet which is so necessary to the healthy state of the digestive organs.

In some of the earlier importations of blood cattle from Great Britain, many of them died for want of hay. They had plenty of grain for their daily food, and, though amply sufficient to sustain life so far as its nutritive properties was concerned, was nevertheless deficient in the property of distending the stomach of the animals, and thus to assist in the process of digestion. As it was impossible on shipboard to get a supply of hay, the keeper in charge as a last resort caused the extra fine spars on board to be shaved fine as a substitute for hay; on this food mixed with their usual diet, the remaining animals entirely recovered before reaching the end of their journey.

entirely recovered before reaching the end of their journey.

Some years ago during a long and severe winter, many fowls acquired the disgusting habit of feather eating; by feeding all the chopped hav they would eat, they were entirely cured of the pernicious habit. Of all the grain usually fed to stock corn is the most valuable nicious habit. Of all the grain usually fed to stock, corn is the most valuable for fattening purposes, and is more largely fed to poultry than all other grains combined; but as an exclusive diet for laying stock, is injudicious and unprofitable, being too heating, and too fattening as a rule; according as hens take on fat, they fall off in laying, and this fact should be kept in mind in feeding. Chemical analysis shows that as a fat producer corn stands first among fat producer corn stands first among all our cereals, and as a flesh producer, last with the single exception of buckwheat. Wheat contains all the elements in just proportion to sustain animal life, and is the best food that can be given to fowls, both young and old, the year through. It helps the laying qualities of the hens, is easy of digestion, but should be used with moderation as an excess of this grain fed raw will prove too laxative, a condition that should be too laxative, a condition that should be guarded against always.

Oats are very rich in flesh forming material, more so than any other grain, and is one of the best grains we have

and is one of the best grains we have for young fowls.

Barley is the richest grain in mineral matter, and is therefore very good for furnishing the material so much needed for bones in the rapidly developing frames of growing chicks.

Buckwheat stands highest as a producer of gum and fibre, and lowest as a flesh producer. While this grain is but little fed in this country by poultry raisers, it is very generally used in France. ers, it is very generally and is supposed to aid materially in producing the enormous quantity of eggs marketed by the French people. It is said in western New York, that a bushel of buck wheat and a bushel of each will produce a bushel of eggs.

oats will produce a bushel of eggs.

For a general feed to be used at all times for adult fowls, and especially for laying hens, we have found that oats. cracked corn, and shorts in equal parts, with a little salt, scalded and fed warm, is best for the morning meal. Boiled potatoes or turnips mashed fine may be fed to great a wantage mix-d with the first meal. Into this mashed feed. regular twice a week, may be sprinkled a little ginger or cayenne pepper; these are powerful stimulants and will greatly hasten egg production, besides being an

excellent corrective for the cold season. Do not forget to add a little sulphur once a week. The necessity of this will be obvious when we state, that sulphur is present in the bill, scales, claws, feathers and eggs of fowls, and it will impart a rich glossy appearance to the plumage, so often seen in the show room. room.

Feed oats or wheat at noon; the last meal should be of whole corn slightly warmed in winter; this is slow to digest and helps to keep up a good degree of animal heat in the system during the long cold nights of our northern winters.

Fowls feed with great voracity, but their greediness is no criterion by which we are to judge of the possibility of satwe are to judge of the possibility of sat-isfying them; as a rule one gill of grain or its equivalent for each fowl a day, is amply sufficient for all their needs. With this attention and care, and a constant supply of coarse gravel and ground oyster shell, and the indispensable dust, to both which they can have free access at all times, if your fowls do not give you a generous supply of eggs during the winter season, they are not of the laying kind.

River Side Stock Farm.



DEGEN BROTHERS, Ottawa, Ill.,

Importers of NORMAN HORSES. Large selection of imported stallions and mar-s=50 head imported this season. We are also breeding full-blood and high-zade Normaus. Having purchased the eld State Fall Ground, we are fitting up one of the best sale narns and breeding establishments in the State, and will be pleased to show our horses to visitors. Correspondence invited. DEGEN BROS., Ottawa, Ill.

-175 HEAD OF-IMPORTED CLYDESDALES



The largest importer of Clydesd: le horses, the largest breeder of pure Cly-esdales 57 Mares now in breeding. Moderate prices. No equal of priunity can be tound elsewhere to buy matured Stallions or young Stallions and Mares, all ages. Persons invited to examine the stock Correspondence invited. For particulars, call on or address

ROBERT HOLLOWAY, Alexis, Ill.



ORESS BROS.,

NORTH HILL STOCK FARM, Washington, Tazewell o., Il mol', importers and breeters of Civdesdale Fuglis; braft and Norman horses. With our recent ditting of a large importation August 20th bygether ith those previously on hand have now one of the street study in Illinois. CLYDESDALE's made a specialty. Quite a number of them have disinguished themselves both in Europe and America string or the street street and all parties in new dof such high class stock would do well to give us a call and savenous, as we will convince you when you call. Send for catalogue. Reasonable prices. Trems easy.



HOLSTEIN CATTLE.

550 Head on Hand.

Over thirty yearly records made in this herd average 14,212 Ds. 5 ozs ; average age of cows fourand a-half years. In 1881 our entire herd of mature cows averaged 14,164 lbs. 15 ozs. In 1882 our entire herd of eight three year--lds av. raged 12 888 ha 9 ozs. April 1, 1884, ten cows in this herd had made records from 14.0 · 10 18.40 fb . each, av. raging 15,608 has 6 3-10 cm. For the year ending time 884 five mature own averaged 13,6:1 fb 12-5 ozs. Seven betters of the Nether and Family, five of them two years old and two three years old, averaged 11 5 to fb 12-5 oss.

BUTTER RECORDS.

Nine cows averaged 17 Da 512 ozs, per week. Eight heifers, three years old, averaged 18 Ds 434 ozs, per week. Eleven heifers, two years old and younger averaged 10 Ds, 3 ozs, per week. The entire original import d Notherland Family of the cows (two being but three years old) averaged 17 Ds, 616 ozs, per week. When writing always mention the Kansas Farmer.

SMITHS, POWELL & LAMB, Lakeside Stock Farm, Syracuse, N. Y.





THE LEONARD BROTHERS

Galloway, Aberdeen-Angus and Short-Horn

SPANISH - JACKS - AND - JENNETS,

MOUNT LEONARD, : : : : MISSOURL

A very choice lot of Black Polled and shirt horn Grades for sale. Carload Lots a specialty for norman. We have some of the largest and chideest herds of Pure-bred Stock to select from.

Prices Reasonable. Call on or address

I-EONARD BROTHERS, Mount Leonard, Missouri.



GALBRAITH BROS.,

Janesville, Wisconsin,

Clydesdale Horses

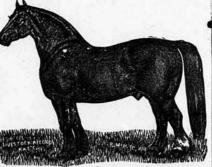
Have at present on hand a splendid collection of Stallions and Mares of all ages, and every animal guaranteed. On Luving fa littles being unequated, we can offer our stock cheaper than the same quality on the bought at elsewhere. As Send for itustrated catalogue. Correspondence-olicited. Visitors welcome. Janeavi lata 91 miles from Chicago by the C. & N. W. ra Iroad, and 20 miles from Rock Island by the C. M. & St. Paul railroad.

PERCHERON N'RMAN, CLYDESDALE and ENGLI H DRAFF HORSES.



E. BENNETT & SON Importers and Bre

Topeka, : Kansas. Jall stock registered. Catalogues free

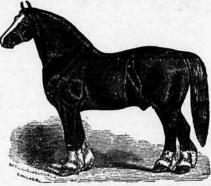


JOHN CARSON, Winchester, - - Kansas Importer and Breeder of

Clydesdale & Percheron-Norman Horses. On los stock for sale. Also some fine Grades. Cor I nave some Jacks for salc.

OVER ONE HUNDRED CLYDESDALE, ENGLISH DRAFT

AND PERCHERON NORMAN Stallions and Mares arrived in August, '84.



Anoth r importation just received, ages range from we to four years old. Our stock won fifteen premiums it the lowa State Fair of 1884; also sweeps akes on lyde dale stalltons and sweepstakes on Percheron-Korman stalltons. 300 High-Grade Marcs, in oal to our most noted horses, for sale.

Advantage offered to customers at our ranch: Many years' experience in importing and breeding. Im-

Advantag soffered to customers at our ration. Many pair's experience in importing and breeding. Immense collections, variety of breeds, enabling comparison of medis. The bet of everything. A world-wide reputation for fair and honorable dealings. Close proximity to all the through railroad lines. Low piles consequent to the extent of the business. Low rates of transportation and general facilities. Visitors welcome at our establishment.

Ranch 2 miles west of Keota, Keokuk Co., Iowa, on the C. R. I. & P. R. R. Ib miles west of Washington, Is. BINGMASTER & SONS, Keota, Keokuk Co., Iowa.



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 exceeds ten dollars, the County Clerk is required, within ten days after receiving a certified description and appraisement, to ferward by mail, notice containing a complete description of said strays, the day on which they were taken up, their appraised value, and the maize and residence of the taker up, to the Karsas Farer, together with the sum of affly cents for each animal contained in said notice." And such notice shall be published in the Farrer in three successive iscuss of the paper. It is made the duty of the proprietors of the Karsas 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 in strays. 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 pen-

alties for not posting. Broken animals can be taken up at any time in the year.
Unbroken animals can only be taken up between the lst day of November and the lst day of April.
except when found in the lawful enclosure of the taker-

except when found in the lawful enclosure of the takerby
No persons, except citizens and householders, can
take up a stray.

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

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

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

description of the same and its cash waite. He shall also give a bend to the state of double the value of such also give a bend to the state of double the value of such also give a bend to the state of double the value of such the form the time such stray was taken up. (ten days after posting) make out san return to the County Clerk, a certified copy of the 'isexription and value of such stray. If such stray shall be valued at more than ten do! hars, it shall be advertised in the Kansas Farmar 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 had be delivered to the owner, on the order of the Justice, and upon the payment of all charges and costs. If the owner of a stray fails to prove ownership within twelve months after the time of taking, a comdicte title shall vest in the taker up.

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

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

In all cases where the title vests in the taker-up, he shall pay into the County Treasury, deducting all costs of taking up, poeting and taking care of the stray, and person who shall sell or dispose of a stray, or take the same out of the state before the title shall have vested in him shall be guilty of a misdemeanor and shall forfeit double the value of such stray and be subject to a fine of twenty deliars.

Strays for week ending March 25, '85

Lyon county-Roland Lakin, clerk.

Lyon county—Roland Lakin, clerk.

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

HFIFER—Taken up by A P Walstrom, in Waterloo
tp, one man vestiline helfer, white on belly, no marks
or brands; valued at \$12,

2 STEERS—Taken up by E J DeLong in Tremont
tp, Dec 5, 1884, two red and white ap-tited siters one
a yearling and one "vestr-old, no marks or brands;
valued at \$25 and \$30, respect v.ly.

SIEER—Taken up by J W Morgan, in Fremont ip,
Feb 19, 1885, one light roan yearling steer; valued at
\$25.

Jefferson county-J. R. Best, clerk.

STEER - Taken up by Richard Stence, in D-laware tp Nov 1.1885, one light red steer, some white spots on sides, star in toreheat, no marks or brands, 1 year old spring of 1884; valued at \$15.

Osage county-C A. Cotrell, clerk. HEIFE: — Taken up by J W Nicolav, Pop Corn P O., Feb 9, 1885, one light roan helfer with red ears, no marks or brands; valued at \$15.

Wabsunsee county H. G. Licht, Clerk. STEER-Taken up by Margaret Krin'tz, P. ... Blamark, March 4, 1885, one veiring steer, under b.t. in left ear dim brand on right hip not discernible; valued at \$10.

Brown county-G. I. Prewitt, clerk. STEER—Taken up by F Cashman, in Poshatan tp, one ned steer 1 year old, white spot in forehead, no other marks or brands.

Greenwood county --- A. W. Hart. clerk. STEER—Taken up by Wm Launders, in Eur & tp, March 2 1885, one white 2-year old steer, crop and under bit in right ear, ears light yellow light yellow spris on ide so neck and on shoulders; valued at \$20. PONY—T-ken up by W O Clarcomb, Salem tp, M rett 2, 1885, one brown mare pony, 13 or 14 hands high, heavy mane and tall, branded on left hin and shoulder with an indistinct brand supposed to be a sh p anchor.

anchor.

HEIFER—Taken up by John Willis, in Bachelor tp.

Feb 7, 1885, one red vearling heifer, with white on

face and helly some white on tail, no marks or brands;

valued at \$10.

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

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

Strays for week ending April 1, '85. McPherson county--E. L. Loomis, clerk.

2 GEI, DINGS—Taken up by J. W. Moore, in Castle tp, March 5, 1855, two gelding; each about 16 hands high and welching about 1,000 pounds each, one is a light bay and the other a dark bay, no wisible marks except harness marks, but had on leather halters—one with short rore, the other with short chain attached; valued at \$125 each.

Smith county-J N Beacorn, clerk.

COW-Taken up by B.O Williams, in Lincoln tp, one pale red cow, point of right horn broken off, white spet on belly, thin in firsh; valued at \$25.

Russell county-H. C. Hibbard, clerk.

STEER—Taken uo by J. J. Johnson, in Fairview tp, February 13 1885, one deep roan yearling steer, no marks or brands.

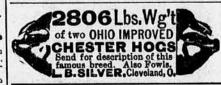
Strays for week ending April 8, '85

Linn county .- J. H. Madden, clerk. MARE-Taken up by Lamuel Downing, in Lincoln tp., February 25, 1886, one black mars, 10 years old. lett hip knocked down, blind in right eye; valued at \$25

Harvey County-John C. Johnston, el rk. HORSE-Taken up by J. L. Renolds in Darling on tp., March 7, 1885, one medium-sized black gelding, star in forehead; valued at \$50.

Smith county-J. N. Bercorn, clerk. PONY-Taken up by Jasper Lith her, in Harlem tp., March 21, 1886 one pony more, 4 years old, 13 hands high (color net given) white hind feet. MULE COLT-By same, March 10, 1885, one dark brown horse mule colt, about 1 year old.

Pottawatomie county-I.W. Zimmerman, olk. (OLT-laked up by Helry Shehi, in Spring Creek tp, February 7, 1885 one bay mare colt; valued at \$6: COlT-By same, same time and place, one fron gray colt; valued at \$6:



LEXINGTON COMBINATION SALE CO. -Will Sell at-

LEXINGTON, KENTUCKY, April 23, 24 and 25, 1885, 200 HEAD OF

For track, road, coach, saddle, family and breed ing purposes,

The get of Alexander's Abda'lah, Dictator. Al mont, Harold, Onward, Mambrino Patchen, Woodford Mambrino, Mambrino Russell, Alcan tars, Alcyone, Young Jim, Jay Bird, Mambrino King. Shelby Chief, Red Wilkes, George Wilkes Jr , Governor Sprague, Hambletonian Mamb ino Strathmore, King Reno. Belmont, Triton, Blackwood, Ajax, American Clay, etc.

Send for Catalogue to W. R. BRASFIELD, P. P. JOHNSTON,
R. E. EDMONSON, Auctioneer. Treasurer.

PUBLIC SALE!

Cattle.

T. W. HARVEY, of TURLINGTON, NEB., -Will offer at-

Riverview Park, Kansas City, Mo., On Wednesday, May 6, 1885,

20 HEIFERS and 10 BULLS!

All prize-winners, or the produce of prize-winners.

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WEDNESDAY. APRIL 29th, 1885.

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AT AUCTION.

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SALINE COUNTY BREEDERS' ASSOCIATION will sell at Marshall, Mo., April 28th and 29th, 1885. For Catalogues address, T. C. RAINEY, Secretary, Marshall, Mo.

LAFAYETTE COUNTY BREEDERS' ASSOCIATION will sell at Higginsville, Mo, April 30th, 1885. For Catalogues address WM. G. NEALE, Higginsville, Mo.

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A lately introduced, has no equal in the world. Its excellent work in the field has distanced that of all competitors. It is, in some sections, doing in one pa-sage, the work of four or five old-style implements, and in others superceding the cumbersome and expensive two-horse tools. The "PLANE" JR" HAND SEED-DRILLS AND WHEEL HOES are the newest and best, lightest and strongest known. There are 7 distinct tools, each with special merits, no two sills and the control of the newest and best, lightest and strongest known. There are 7 distinct tools, each with special merits, no two alike or the same price; all practical and labor-saving. Let no Farmer or Gardener fail to study up during the winter evenings our 1885 CATALOGUE, which gives reduced prices, careful and exact engravings of these different machines, and such descriptions as will enable the reader to judge correctly of their merits. Thirty pages and forty engravings. Free to all. Correspondence solicited.

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Ist. That one men can did from two to three hundred heles two feet deep in ordinary ground in one day. 20. That twill dig holes any size or depth required.

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4th. You stand up straight while us, ing it, consequently no back-breaking work is required.

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The Busy Bee.

Seasonable Hints to Unprofessional Bee-Keepers.

J. L. Harris, in Farm, Field and Stockman thus discourses:

Bee keeping and honey producing has reached such proportions that most agricultural and weekly newspapers find it to their interest to devote a portion of their space to this pleasant and profitable industry. So far as our observation extends, it has been the custom of those having this department in charge to conduct it to the interest only of those more or less proficient in the use of improved hives and implements, which modern apiarists (bee keepers) find indispensable to the greatest success. While this makes interesting reading for the proficient bee keeper, and gives the various writers of "accepted" articles an opportunity to see Bee keeping and honey producing has cepted" articles an opportunity to see their usually well written and mostly valuable articles in print, it is of little or no value to a large per cent. of the general readers who know little or nothing of the modern modes of apiculture, and who have no time or disposition to become proficient in bee keeping. To this latter class we propose devoting a few articles and seasonable hints in this journal—using such terms and occa-sional illustrations as will best assist the busy tarmer, and those keeping a few colonies, in securing a much larger supply of honey for their own tables, without radical or expensive changes in without radical or expensive changes in their present management. The first to claim our attention are the bees. The proper term to apply to a family of bees, in a hive, is a "colony." Sometimes they are designated as hives, skeps, gums, swarms, etc., each of these being local in their use. These bees consist of three classes, viz: drones, masculine; queen, feminine; workers, undeveloped females (sometimes improperly called neuters.)

Drones—These emerge from the cells

Drones—These emerge from the cells in twenty-six days from the time the queen deposited the eggs. These, being "lords of creation," gather no honey nor perform any of the duties of the colony, except the fertilization of the young queens. Their numbers may be thousands, but should be only dozens, as they are great gluttons and consume a large amount of honey, for which they render no equivalent, when their numbers exceed the requirements of the colony. This class hatches about the middle of May, and remain until about the middle of September, when they are thrust from the hive and killed by the worker bees, as there is no further need of them until the return of warm weather. Drones-These emerge from the cells

warm weather. Queen.—There is only one queen in each colony, and she, the only perfectly developed female and the mother of all the bees, is the most important member of the family. She is certainly at the "head" (as well as the foot) of this class. She hatches in sixteen days class. She hatches in sixtéen days from the egg, and ordinarily a day or two after the bees have swarmed. When about ten days old, alone she leaves the hive, usually between 12 o'clock m. and 2 o'clock p. m., on her "wedding trip." Having met the drone, in the air. she immediately returns to the hive. The second day thereafter. she begins to lay the eggs which are to produce the various classes of bees for the future maintenance of the colony. She never again, under any circum-She never again, under any circumstances, voluntarily leaves the hive unshe never again, under any circumstances, voluntarily leaves the hive until the next swarm leaves the present hive, when she goes with them, leaving, in her old home, a queen-cell soon to hatch a young queen, who is to become the mother of the home colony. She lives to the age of two or three years (has been known to live five years) and is capable of laying 2,000 or 3.000 eggs daily, during the warm months of her existence. In case she is removed, by death or otherwise, the worker bees proceed to rear another in her stead, provided she has left eggs in the hive not over four days old. This they do by making a larger or queen cell around one of these eggs, and depositing a much larger amount of food (called royal jelly) within, than is used in the production of bees of either of the other classes. In case no egg is lett, they are unable to rear another queen, and the colony soon dwindles and is lost, unless the bee keeper comes to their rescue. The how this is done, will be in a future the bee keeper comes to their rescue. The how this is done, will be in a future

The workers are by far the most numerous, there being from 15,000 to 40,000 in each colony. These gather the honey and pollen, or bee bread, make the wax,

build the comb, feed and rear the young. build the comb, feed and rear the young, guard the hive from mice, insects, moths and any and all of their euemies—not forgetting the 'inquis tive boy.' These, too, are the only bees that sting. They hatch in twenty-one days from the time the egg is deposited in the cell, and their length of life depends much upon the season of the year in which they were hatched. Those hatched in September and October usually live un til spring, the last of them dying during til spring, the last of them dying during May. There is usually no young reared from the middle of October till the first of March, at which time brood raising begins for the season, and the life of the workers, from this time until fall frosts workers, from this time until fall frosts kill the Llossoms, is only from forty to sixty days. During the honey gathering season they are out gathering their stores of sweets and subject to so many of their enemies, such as winds, cold, birds, insects, spider webs and many others that there is a great daily mortality. The size of the colony is only kept up by the continuous rearing of young bees to take the place of their unfortunate predecessors, hence the unfortunate predecessors, hence the necessity of the very great number of eggs the queen is required to produce daily during the working season of the

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

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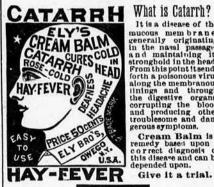
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For constitutional or scrofulous Catarrh, CATARRH true remetly. It has cured numberless cases. It will stop the nauseous scatarriat diseinarges, and remove the sickening of or of the breath, which are indications of scrofulous origin.

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SORE EYES erfulalterative medicine must be employed. They united in recommending Ayrif's Arrangelland, and the commended a perceptible improvement, which, by an adherence to your directions, was continued to a complete and permanent cure. No evidence has since appeared of the existence of any serofulous tendencies; and no treatment of any disorder was ever attended by more prompt or effectual results.

Yours truly, B. F. Johnson." " Hutto, Tex., Sept. 28, 1882.

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General Farming purposes, from which A FARM can be selected that cannot be excelled in any STATE in the UNION. FOR PARTICULARS, MAPS, ETC. WRITE TO

· J. B. POWER, Land Com. . St. Paul, Minneapolis & Manitoba R'y Co. ST.PAUL, - -

Bridle for a Stallion.

J. H. Saunders, in his new book on Horse Breeding, thus describes a bridle for an unruly stallion:

While the temper and disposition of the stallion are largely matters of inheritance, yet much depends upon the breaking and management. It is easier to spoil a horse than it is to cure him of bad habits, after these are once formed. If there is any appearance of a disposition to be "headstrong" and unruly, he should never be led out except by a bridle that will enable the groom to exercise the most perfect control over him. The one that I have found effectual is made by taking an ordinary "snaffle" bit with rings of moderate size, and with the head piece made in the usual way; get a blacksmith to attach a well polished, round iron bar to the right hand ring, by means of a small link connecting the bar and the ring; to to spoil a horse than it is to cure him of link connecting the bar and the ring; to the other end of the bar attach the usual the other end of the bar attach the usual sliding rein used on stallion bridles. Put the bridle on the horse in the usual way, and then, with the right hand on the bar and the left on the bridle-ring next to you, pass the bar back and the ring forward until the bar will pass through the ring in the left hand. This bar should be made just as long as it can be to admit of its being passed into the other ring in this manner, and the bit and the rings should be so adapted to the size of the mouth and under jaw that, when a little pressure is brought to bear upon the rein attached to the end of the lever formed by this iron bar, the rings of the bit will be brought within an inch of touching each other. The leverage given by this appliance, when well fitted, will enable any one to hold the most unruly and headstrong hold the most unruly and headstrong horse in check. It is not necessarily severe when the horse behaves himself, and when he is not disposed to do this he can very suddenly be brought back he can very suddenly be brought back on his haunches by a moderate touch on the rein. When the bar is not needed the rein to which it is attached may be passed over the head and down through the ring on the other side, in-stead of under the jaw. I have de-scribed this device fully because it is cheap, simple and effective, and yet it does not appear to have been extensively does not appear to have been extensively

A St. Louis man has discovered that cat-fish skin makes excellent leather. It is light gray in color and very soft and tough.

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The most common signs of Dyspepsia, or Indigestion, are an oppression at the stomach, nausea, flatulency, water-brash, heart-burn, vomiting, loss of appetite, and constipation. Dyspeptic patients suffer untold miseries, bodily and mental. They should stimulate the digestion, and secure regular daily action of the bowels, by the use of moderate doses of

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After the bowels are regulated, one of these Pills, taken each day after dinner, is usually all that is required to complete the cure.

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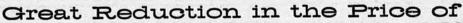
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Osage Mission, Kas., July 27, '84.—T.R. & A.: Duty ors; better thin seeds they have been buying Eist and processed one complaint although they were guaranto by that the seed we bought of you along of the paper commission seets. Keep up you received one complaint although they were guarantous attribution in every particular; were considered the only strettly reliable seed sold in this town idered the only strettly reliable seed sold in this town its seeds also gave good satisfaction.

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SALISBURY. Mo. July 17, '84.—T. R. & A.: We like.

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Very truly yours,
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ARROW Rock, Mo, July 20, '84.—T. R. & A.: The
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If you have not used our Seeds, try them, and you will use no other. Our 1885 Catalogue, now ready, TRUMBULL, REYNOLDS & ALLEN, Seedsmen, Kansas Citv, Mo.

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"For Sale," "Wanted," and small advertisements for ort time, will be charged two cents per word for each in-ction. Initials or a number counted as one word. Cash

TUBNER RED RASPBERRY PLANTS \$3 per 1,000:

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I have a limited quantity of Jerusalem Artichokes, which 1 will tell at \$1.25 ner tushel while the supply lasts.

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S. V. WALTON & SON,

Box 207, Wellington, Kansas, -Breeders of-

IMPROVED POLAND-CHINA HOGS

Of the Highest Type.

All well pedigreed Correspondence solicited

50 HIGHLY-BRED

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Thoroughbred and High-grade Bulls, Cows and Calves, for sale on Dairwille stock Farm. Eagle tow.-ship S-dgwick Co., Kas. Inquiries answered by J. SIMON, Agent, Sedgwick City, Kas.

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First, at CHICAGO IN 1881, where
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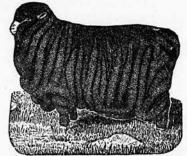
\$1,000 PRIZE. offered, which was admirably won by
M, W. Dunham's Herd
of Percherons. Next. again at the WORLD'S FAIR at

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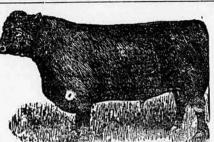
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2806 POUNDS WEIGHT of two OHIO IMPROVED CHESTER HOCS Sen of description of this famous Sen for description of this famous breed. SILVER & SILVER, LYNNVILLE, 10WA.



IMPORTANT

PUBLIC SALE.

50 Head Pure-bred Imported

BULLS AND HEIFERS.

Riverview Park,

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The Property of JAMES CUNNINGHAM & SON, Dalbeattle, Scotland. 'These cattle have been elected with special reference to the Western market. They are all recorded in both the Scotch and American Herd Books, and embrace some of the best Galloway blood. Among the Bulls being the prize-winners VINDICATOR OF CLOSEBURN 1876, BRITI3H HERO 1877. MARKSMAN OF DEUMLAURIG 1878, and many others from prize-winning ancestors. The Heifers are descended from some of the choicest strains, and are all in calf or with calf at foot.

At Riverview Park, Kansas City, Mo. Catalogues ready. Address

WALTER C. WEEDON & CO.,

Live stock Exchange, Kansas City, Mo.

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

PUBLIC SALE OF SHORT-HORN CATTLE!



Oakland Stock Farm HERD,

The Property of

W.S.WHITE,

SABETHA, KANSAS,

At Sabetha, Kas., Thursday, April 23d, 1885,

(The day following J. S. Lemon's sale at St. Jue, Mo.)

I will sell about 55 head of choice Breeding Short-horn Cattle. In this offering are 33 Females and 22 fulls, including the three first-prize and sweep-these Bulls at the World's Exposition, New Ordens, and some of the codes a voing Ruds ever offered in a Western sele. The dissertion will consist of 1 mig Marys. Lady Elizabeths for Nelly By-). M zurkas, Waterloos, Pomonas, Amelias, Success, Floras, autumn Qu'ene, and other desirable families with the best of top cross a The Females that are old snough by evalves by their side or are most of them in call by one of the slove inview prize winning Bulls, IMP, MAZURKA IUSE 5278 by 4th Duke of Clarence (the best Bates Duchess Bull living), or by one of the Neily Bly Bull. Set Sale immediately after 12 o'clock lunch.

W. S. WHITE, Sabetha, Kansas.