## NORTHERN MESSENGER



Agricultural Department.
PASTURE SEADES FOR MILCH COWS.
The question of shade in pastures is being discussed, and wo regret to see it urged that
shade is of no benefit to dairy stouk, but is, shade is of no benefit to dairy stouk, but is,
on the contrary, a disadvantage in this-that it fosters a kind of lazy insetivity and thus, leszens the gield of mill.
The advocates of "no shade in pasture," argue that the cow is sinply a machine for the manufacture of milk-that to make a
large yield requires a large amount of food above that needed for the support of the
animfal, and that when pastures are supplied anindal, and that when pastures are aupplied
with trees or other shade, cows in hot weather with trees or other shade, cows in hot weather
seek shelter and reat apd will not feed for a full yield of mill. Take a way this induuement for comfort, thoy say, and cows will rest because they will be compelled in their discombecause they will be compelled in their discom-
fort to ninve about-and thus grazing is profort to mine about-and thus grazing is pro-
moted. We know dairymen of large practical moted. We know dairymen of large practical
experience who hold to this view of the question, and who have taiken pains to remove it a fact that cows will give more milk under such circmstances of that a gain of milk can moving all shade in pastures, are dairymen justified in adopting such a system? and will not the milk of cows so exposed to the bun during intensely hot weather be injured ? properly conducted experiments that prov that a larger yield of milk can be obtained from cows when they are not allowed shade shade. It is true cows will not yield so much milk when they have the run of large traots c:op the leaves of trees and feed upou varion plunts that have a tendency to lessen the yield of milk. It is quite different with shade trees they have acquired size and the branches are thbuve the reach of cattle. We do not believe that cows deprived of shade will rield more circumstances. Nill our experience in the care and munagement of milch cows teaches us that the more comfort you can give the animal the more milk she will yield, other thinge being equal; and when cows seels shade during
hot weuther, they do it to escape the burning rays of the sun, and because it affords them relief und counfort in the same way that it does man when similarly exposed. It is a
oruel practice to coupel cattio to bear the oruel pratice to coupel cartule to bear the aners. They need protection at such seasun
and if man finds shade, at times, not only and if man inds shade, at times, not only gratertal but necestary, there is no reason why
the same rule may not apply in some degree the same rule may not app $\nabla$ in some degroe
to our domestic animals. Wo have reason to to our domestic animals. Ne hare reason to believe that milk io not whirequen cows have been exposed for many hours to intense heat uuder the direct raye onimul forerish, had hence where pastures the animal fererinh, and hence where pastures
ares stripped of shade trees it is well t to ercot temporary gbades. And those temporary
shadus onn be made useful for enriohing khadus onn be made useful for enriohing
knolls and the poorest parts of the fild that need munures for these shades will draw the cattle to suoh points for rest and there will be of great utility in renovating these spots. Then by changing the slades from place to place as occusion requires thees poor spote
will be permanenly bentited nll over tho field.
Those who study to get the largost results from milch cows ure careful to keep the avimals as quiot und as comfortable as possiblo. all puin, feur, and anxiety are disturbing asuses that check the serretion of milk to i
much larer extent than most poople itaugine. - much laryer extent Yorlier.

Tinaning Coits.-One of tho monnest hubite of young harses in thut of lying dowa
in the harne日s. Sones colts will lio down alin the harnesg. Soure colts will ho down al-
most nes soon as you have them barneesed.
Sometimes a blow from the whip, deliverud Sometimes a blow from the whip, deliverid bring them up with a fpring. If one or two
blows do not anawer, the whip is of no ues blows do not answer, the whip is of no une;
you will ouly torture and scare your colt yeedlessly. The bester way is "to beat bim at his own trade, as the sarying is. When he
lies down, got upon his head and neck, and muke hiue stay thero. After fiye or ten minntes, he will begia to grow unonsy. Now
solute command and mastery over a oolt as
when he has his knee on bis neck, and his hands gripped into the briale-pieces. Thus situated, man is absolately " master of the
aituation;" and we have often thought that it was a very good idea to have a colt of rather vicious temper lie down onee, in order that he
might of man. When a oolt gives up, the man a
his head will easily perceive it. The hotblaze and mad glitter will leave the eve ; the mus cles will relax their tension; the neok will become limp; and the whole body, losing its rigidity, will lie along the earth si if i
had no thought of rising, and would neve rise. This is the stage of exhaustion and submission. The colt's rampant spirit is oowed, Hunle. Hota by weapons and knows it. He will never trouble you again in that way. As to the time it
takes to bring a colt to this conviction, ther takes to bring a colt to this conviction, there
is no precise limit. Some colts will "give it
it up" in twenty minutes, some in sixty, and we have known colts hold out for three hours But, whether it takes longer or shorier, carry
the thing through. Believe us, you cannot the thing through. Believe us, you
spend your time better.- Golden Rulle.
The Potato Disease.-An impottant discovery in relation to the potato has been last found the rething on sos of the peronos pora infestans. These he disoovered when investigating leaves attacked with the so-called now disease, of whioh so much hss been detected the zoospore and antheridium of the potato fungus after macerating one of the
diseased leaves for 8 geral days in water. The "now" disease proves to be the " old onemy
in disguise," or in other words he seye, "the old Peronospora infestans is an unusual and exoited condition." Mr. Smith, in a paper reoently read before the Society, recounts the process by which he arrived at such conclufor thinking that "the fungus which produce the potato disease is aquatic in one stage of its existenoe, and in that stage the resting
spores are formed." The reason the resting spores have evaded previous searoh is beoause no one has thought of finding them amongst
leaves macerated with water. The Society leaves macerated with water. The Society have a warded Mr. Smith the Banksian gols
medal, in recognition of the value of his dismedal, in recognition of the value of his disavderies. Of course nothing is yet gained but
aditional scientific information of the history ofditional soientific information of the history of the disease, and its means of propagation.
No remedy is suggosted. It is oertain, howunderstood, and a correat knowledge of its nature will, perhape, some day suggest the (Eng.) Farmer.
Hungarian Grass.-I sowed my Hungazian gras, last year, on the 15 th of June, half a bushel of seed to the acre, which is enough. ust. I had then mowed and fed it green the oows for more than a week. The yield of hay was more than two tons per acre. The cows giving milk ate it well all winter, once a day, with a foddering of corn stalks once und
hay once. I cannot say that it is equal to hay once. I cannot say that it is equal to
the best hay, but it is very valuable when hay is searce, and giving a good orop on those farms where there 18 not suffuient meadow,
and the tillable land is warm and dry. It re-quires as much time for curing as clover, and the same mathod; that is, in the cock. It is more easily handled than clover, and less in
danger of being injured by raing. It leaves danger of being injured by raine. It leaves
the land in good condiition to be prepared for what, and wheat now looks very promising whe re preceded by this grass. The HungaIt comes (with me) in the pistice and quare fullow, after corn, and makes no more labor reully than a fullow, which requires frequent ploughing. If it proves that wheat does fullow, we shall call it an acquisition. It does not make as much valuable fodder as sowed
corn, but the cost of labor is not nearly so much as in harvesting sowed corn. And sow ed oorn cannot well be followed by wheat
evon if it wery early enough, it leaves the land in $a$ bad condition.-Ncouton Reed, in $^{2}$ Country Gentleman.
The Honse's Lax.-A colt is born with twelve grinders; in twolve days ho will have four front teeth added, and when another four old. At ight months of age the corner teeth length of the front teeth he is one year old A two year old oolt has the dark substance in the middle of the crown of the teeth, called tho krinel, ground out of all its front teeth. During the fourth year the next four teeth
hifted, aud the corner teeth in the fifth. bix years of age the bridle teeth have attained
to their full growth, and tho kernel is worn out of the lower middle front teeth. At soven years the bridle tecth brigin to wear off, the
kervel of the toeth next to the midde front i

Worn out, and a hook has befn formed in the
corner teeth of the upper jaw. The kernel i worn out of all the lower teeth and begins to decrease in the midale upper front at eight heir poid the ninth year the bride teeth lose increased in aize, and the kernel has entirely disappeared from the upper middlo frout teeth. At ten years the kernel has worn out of the teeth next to the middle front of the upper jaw, and it has antirely vanished from the cear. When the animal has attuiued twenty pears thea the animal the front teath in the lower jaw have beaome triangular, and the be teeth are worn down a great deal. $A_{B}$ shrink away from the teeth and the kerneld change into dark-looking points.
Uses or Rawhide.-The skin of an animal, whether cow, calf, colt, or horse, that dies on tanner's. Cut into narrow strips, and shave off the hair with a sharp knife before the kitchen fire, or in your work-shop, on stormy days and eveniuga. You may make them soft by rubbing. A rawhide halter-strap an inch han win bid a horas better and than hoap ron, and moredurable; and mas be used to hoop dry casks and boxes, and for hingen Try it on a broken thill. or any wood-work that has been split. Put it on wet, and tring in the world. A rawhide rope is a gag substitute for a chain. It is valuable to mend a broken link in a trace-chain: For some purposes it is best to use it in its natural state. For other purposes it may be dressed soft. Vermont Chronicle.
Earry Cut Grass Best.-The German papers publish details of a series of experiments country for the purpose of thing the that tive properties of grass and hay at various stages. By an elaborste saries of an various stages. By an elaborate series or analyses it
is shown why young grass is more nutritious than mature grass. The phywiologicul experiments show that it is more easily digestible. Thus grase $2 \frac{1}{2}$ inches high contains nearly 50 which is 6 inches high, and 10 more of "crude fat." The mature grass contains more wood fibre and less flesh-forming matter than the young grase, and, besides this, it is found that nutritious albumenoids exist in a les Hence form in bay than in young grass digestibility. Autamnal huy was found to be more nutritious than summer hay.
Bran and Corn Meal for Cows.-The Practical Farmer aays: It is well settlod, in the opinion of all our best dairymen, that bran great it is fed almost universally. About equally mixed with coin meal is the usual proportion. This mixture seems to promote both quantity and quality of milk. Hungarian superior to the ordinary run of hay. The last year or two Hungarian grass has loomed up farmers, and a very large simo of our dairy be sown with it the coming season. It ma tures for cutting in about sixty days, and pioduces two to four tons per acre, the latter, or course, on good noil. Three pe
acre is the usual allowance of seed.
Oid House Plaster.-In tearing down old buildings or scraping plaster off the ceilings, ror improvemente, a large mass of stuff to
furnished that may be of great benefit to gardeners and farmers, if they will haul it gome and put it on their land. There is no wour form of lime which they oan get that as old house-plaster; and when their teams are in town, it will pay the farmers richly to haul the old plaster bome and put it on their corn and garden patches; and in no application around the trees and berry bubhes.-Mfaryland Farmer.

- A writer in the London Garden deseribes "His method of training petunias as follows bends them like croquet hoops and frive long ends into the bed, at suitable intervale, all over it. Un these he trains petnnias, which blossom more abundantly than usual uader this treatmont. Petnuias have been successnd treated as if they were sweet pea vines ag habit of this planting trelinily lato in the season, is not always sufficiently considered." - There has as yet been no application disbeetle so sure and cheap as colorado potato a poison, and a phycician-farmer, living near this city, wishes us to call atteution to the fuci that if applied with water, it is porfectily eafe for ordinary uee. $A$ table-spoonful mixed iu a puilful of wator and applied with an eld brovin will invariably kill the beotles; and by
there can be no danger of injury to anything oxcept tho beetles.


## DOMESTIC

Cumbant and Rappberby, or Cumbant and CuEnay Pudnrva.-Tuko equal quantities of currants; lino a pudding-basin with a suetcrust; stem your fruit ; put it into the busin with plonty of sugar, but do not put any water; cover it with a top crust well fastened on; tie a cluth over it, und boil for two hours.
Baked Tomatoes.-Select well-ripened frait of a nearly uniform siza, say two or three earthen pie-dish. Buking them on tin injures la quite amanler ones in the midale and bake m quite a hot oven, until cender, say from an homuld dry out, add a litule water. Mrake them soft and tender, but do not let them burn. Serve warm or cold
Frexcir Raspberry Tart.-Choose a pint of very fine ripe raspberries, either red or white lem then, and throw them into a boiling syrup, made with a quarter of a pound of
loat-angur and a tablespooufnl of water; withdraw them immodiately frota the fire; line a tart-dish with a puff-pante rollod a observing possible; lay in the rie, and syrup possible; putit into a quick oven for twent minutes; ptrow more suyar over it, and ylaze it; or, if to be served cild, pour raw cream B
Bean and Tomato Sout.-Tuke one quart each of well-boiled beans and canned tomutaen
mash the beans thoroughly with a pestle, aud rub them through a collander; then add two quarts of water and put them to cook with finely minced ; boil all together fifteen on twenty winutes; thicken with about one gill of silted Grahaun flour rubbed in water; boil five minutes more and then sorve. The above Parsley, thyme, or sage may be used instend of the onion.
Baizd blass and Toatators.-Mix equal proportions of well-cooked beans and cooked
or chnned tomatoes; add finely minced onion, or canned tomatoes; add fingly mincod onion,
to the taste, depending somewhat on the strength of the latter, and put all in a didh to buke. If thero is a large proportion o pit-dish, otherwise use a nappy. Bake long and gently, from an bour to an hour and half in a noderate oven. Less baking will warm.
Mernod in mine Houseirold,-A girl who over since she left the schuol-room has been at every one's beck rad call all day long, and halonon days of courtship, and ufterward by hatnon days of courtiship, and neterward by
bridal travels and visits, zany often feul it difficult to settle into regularity when in hor own house. But then is her time. Mout likely, hough her avocations are more needful, the tban when ahe was only one household. If her husbaud be a busy man, he is probably bound to certain houre, and the nnows exactly what time he will have to be on his hands, and is apt to want her nt all hours, though all plans muat be portroned to his pleasure, still it is well to have certain nade him to conform, or that otrange wild thing will grow ap. a ramshackle bousehold, in which no one kuows when anything is to be done, nor where any one is to be found, and do not cbance continal fret and worry th an whygoing temper. Let not the young wife be led away by the foolish saying that only tireRome people do things at regular times. day before her while her husband is engaged, and she will do much more wisely if she
reaolves a cainst being desultory. If she pioks resolves against being desultory. If she piaks
up her work or up her work or her book, or tries the last bit
of music, just when the humor takes her ; rushes out to garden or to shop the moment an idea or a want strikes her, encourages gaddings at all hours with the friend next door, and writes her Iettors either on the spur. of the ncomug post or in a frenzy of haste at ita
departure, she will ere long be weary, find nothing done, and have begun on a course much wisor, und much less likely to spend a wearisomo life of muddle, and of running after omissions, if she fixes with berself oertain taske at certain hours, and on regular daysputting foremost those that she is most dirposed to shirk. Domestic affairs naturally ar made, or kept good arvants are only to be made, or kept by regularity in all that con
cernas them. So eharitable works (excopt on encrgencier) are thetter followed out at rogular

