

Feeding Idle Horses in Winter.

BRAN MASHES.

The hay given to the horses is best fed in a long state, and there is no reason to chaff it. If desired, a mixture of chaffed hay and straw may be supplied to supplement the hay, but cut stuff of this description when fed by itself does not make a particularly palatable feed, and horses will only eat it if a keen appetite compels them to do so. By mixing a little dry bran or some grain in with the chop its palatability is, of course, greatly improved, and horses will then eat it readily enough. Bran contains a goodly amount of nutriment, and it is a most useful food for idle horses, as it is in no wise heating. It is certainly a good plan to feed a little dry bran to horses running in the open or kept on straw during the winter. Clean, bright wheat chaff can also be used economically as a fodder.

One of the most important questions requiring consideration in connection with the present subject is that of feeding grain. Idle horses which receive a plentiful supply of hay do not absolutely require grain, and can be wintered without getting an allowance of grain. It is, as a general rule, the best plan to feed a few oats to horses under these circumstances, and the small extra outlay which is incurred in doing so is well justified. It is not, of course, in any way necessary to give idle horses much grain, and that merely means a useless expense which gives no satisfactory return. A small allowance is all that is required. A few oats serve to keep the horse in decent condition, and help to keep up the muscles, while if no grain is given they get out of condition and lose muscle. A horse which is wintered without receiving any grain loses its condition absolutely, and is quite unfit at first for work when it is taken into the stable again. By feeding some oats a certain degree of fitness is retained, and the horse will regain proper working condition and become quite fit again much sooner than if grain is dispensed with. When horses are given an allowance of oats, they, of course, do not require, or eat, as much hay as they do when they get no grain; and thus a saving in the hay is effected by feeding some grain, and this saving in hay is in a certain measure a set-off against the cost of grain, though it does not by any means cover the latter. It may be reckoned roughly that a pound of oats takes the place of from between two and three pounds of hay. Thus, when horses which are being wintered receive a daily grain allowance of two pounds they consume about five pounds less hay each day than they do

[F. & S.]

1. Poll. Seat of "poll evil."	21. Seat of splint.
2. Forehead.	22. Seat of sidebone. Quarter - crack indicated below.
3. Face.	23. Loins.
4. Muzzle.	24. Coupling.
5. Throat-latch.	25. Hip.
6. Windpipe.	26. Croup.
7. Jugular groove.	27. Flank.
8. Point of shoulder.	28. Stifle.
9. Chest.	29. Hip joint.
10. Arm, from shoulder point to elbow.	30. Thigh.
11. Forearm.	31. Quarter.
12. Knee.	32. Point of hock.
13. Fetlock.	33. Hock joint.
14. Pastern.	34. Gaskin or lower thigh.
15. Neck.	35. Seat of thoroughbred.
16. Crest.	36. Seat of curb.
17. Withers.	37. Seat of bog spavin.
18. Back.	38. Bone spavin.
19. Shoulder.	39. Seat of ringbone.
20. Elbow.	



A correspondent of the London Live-stock Journal gives some experience on a question that has been much discussed. He says :

"I cannot say at what age a mare produces her best foal, but for the last eighteen years I have been agent for one of our largest insurance companies for mares against the risk of foaling; besides this I have had some personal experience. I have carefully analyzed the result of each year's business, and, though others may find results different, to me the greatest risk is a four-year-old mare with her first foal; I much prefer a three-year-old. I attribute this to the fact that a mare at four years of age is almost at her full strength, and oftentimes when stunted at three years, is allowed to lie comparatively idle, generally not much handled. We all know a mare is a most impatient animal, and at this age not perhaps, under the best of control; the consequence is a ruptured blood-vessel and death. With a three-year-old my experience has been much more favorable; there is one which this year has proved barren for the first time, now 15 years of age, that has produced eleven live foals, only one of which has the company had to pay for as dying before they were a month old. Mares of 8 years are generally good breeders, and can be depended on up to 14 years, but mares of 10 years and upwards when put to the stud I find

Hint on Stallion's Care.

What I learned by thirty years of experience relative to the care and management of stallions I am willing others should know, and should it prove of service to anyone I shall feel well paid for the trouble I have taken.

A few things that I consider of great importance are: First, before using the stallion to mares let him get some age. No colt will breed as well as an old horse from eight to sixteen years old, provided the horse has been properly taken care of. Next, avoid all pampering, both as to care and feed. Feed and work him as you would any horse, not overheating or overexerting him. If not situated so you can work or drive him, have a good roomy yard where he can run and exercise at his own free will. There are three things that should be remembered that are not conducive to fertility in a stallion or to soundness, strength or longevity in his progeny, viz., Idleness, pampering with unhealthy food, and putting him to service when too young.—[F. C. Warner, in Wisconsin Bulletin.]

Ditching Machines.

To the Editor "Farmer's Advocate":

I observed an inquiry in your issue of Dec. 14th respecting ditching machines. It is a regrettable fact, in view of the scarcity of labor, that a satisfactory ditching machine has not yet been invented, particularly of a form that is adapted to the wants of the farmer for digging drains. I do not know of any firm in Canada that builds a ditching machine, although there may be such, and if there is, in all probability this statement of mine will bring such a machine to light. In the United States there are a few ditching machines constructed, none of them, however, adapted to the requirements of the farmer. For digging canals 20 or more feet in width, and from 3 to 10 feet deep, small floating dredges are used successfully, and there are a number of firms in the States that construct these at a cost of from six to fifteen thousand dollars. There is a ditching machine entitled the Jacobs Steel Excavator, that can be designed to cut a ditch from 6 to 20 feet wide, and from 1 to 10 feet deep. So far as I know, there is none built to cut smaller ditches successfully, and hence, there is none adapted for digging the farmer's drain. The want of this machine is to be regretted, for I know from correspondence I have had lately with farmers that many are hindered from doing very necessary drainage by the scarcity of labor. It seems that there is yet no method that will take the place of the primitive pick and shovel.

Ontario Agri. College. J. BREYNOLDS.

So far as vitality is concerned, said Mr. G. H. Clark, Dominion Seed Commissioner, there is no difference between highly-colored clover seed and that which is less highly colored. As a result of the Seed Control Act, and the education in connection therewith, said Seed Commissioner Clark, there has been a marked improvement in the quality of the seed trade. Buyers this year have been offered a premium on the seed produced in 1913-14. There has been in recent years a considerable seed imported into Canada from the United States, the good seed being then sold at a premium, the inferior stuff retained. This year the seed of good seed is being kept