November 22, 1917.

THE HORSE

Make the Harness Fit

NE of the most important points in obtaining the maximum amount of work from the horse, is in having his harness properly The most frequent cause of sore necks is an ill-fitting collar. Sore necks may be caused by collars that are too short, or a collar that is too are too short, or a collar that is too long; by one that is too narrow at the neck, or one so wide that it works back and forth, or even a collar that is properly fitting, but has hames that too long. Some horses get sore shoulder, will usually be troubled with collar boils on the point of the shoulder because the pull is not prop-erly extended along its whole length. With With implements equipped with tongues which require considerable with backing, sore shoulders are often caused through the lack of breeching.

Not only should collars be fitted to the horse, but each horse should be properly fitted with a bridle of simple property fitted with a bit suitable to the mouth of the horse. Care should be taken with two or more horses to see that the eveners are in reality eveners. And in making up a team for working, the driver should as much as possible, place horses of equal temperament and disposition together. There is nothing that will so wear down the flesh on a quick, nervous horse as to be hitched up with a mate of slow, easy going habits.

The Horse in Winter

ITH the high price of feeds, the farmer is confronted with a

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problem in the carrying over of his horses during the winter. Whether the horses work or not, our climate demands that considerable spent in maintaining the horses, both workers and growing stock, during the winter. An Englishman who had travelled over Canada, Australia and South America looking for a country to locate in with his boys, summed up our climate in these words: "It seems to me that you spend six months of the year growing enough feed to carry your stock over the other six months While this may not be exactly true, yet the feed problem on the average farm requires careful attention.

Idle Work Horses.

Much has been said on the wintering of idle workers. Some farmers seeing their neighbors' horses, which depend on the straw stack for their winter feed, turning out in poor condi winker teed, triang out in poor consu-tion in the spring, go to the other ex-treme and stall feed their animals to the detriment of both the health of the animal and plumpress of their own pocket books. A happy medium should sought

At the Experimental Farm, Ottawa, it has been found that idle horses wil winter successfully on one pound of mixed rough hay, one pound of oat straw and one pound of roots per day for every hundred pounds live weight. Other Other horsemen winter their idle horses largely on such cheap rough feed as oat straw or corn fodder with teed as out start is the start of the start necessary to use four or five pounds of grain per day in order to maintain them in good flesh. The horses should be turned out for exercise every day.

Colts.

One of the great secrets of success with colts is to keep them growing straight ahead until they have reached maturity. The valuable imported horses that command such high prices in this country are fed grain from the time they are old enough to eat it until they are mature. A sufficient

FARM AND DAIRY

amount of good grain and hay should, therefore, be fed young colts all through the winter of their first year. The breeder who is raising pure breds can well afford to feed a little grain and a good quality of hay through the second and third years as well. Grade colts, however, must necessarily be carried through their second and third summers on pasture alone for econ. omical profits. In winter, however, they should have the best of roughage available, and enough grain keep them in moderate condition and growing. They should be waterea growing. They should be waterea regularly twice a day, and if possible the chill should be taken from the the chill should be taken from the and chill should be taken from the water by means of a tank heater. A comfortable dry place in which to sleep is of great importance in rais-ing good colts.

The Brood Mare.

Successful horse breeders are pretty well agreed in the opinion that brood mares are better off if worked steadily during the winter, rather than stand-ing idle in the stable. To insure steady work, however, they should be driven by the owner or by a good capable teamster whom one can trust. They should never be allowed to strain, nor should brood mares be put over a road where they are liable to crowd

Mares that are in foal should receive more grain than barren mares or geldings, even if idle in winter. A feed of 3 or 10 lbs. of oats per day or a mixture of three parts oats and one part bran, makes the best winter grain ration for brood mares. Good clean fation for proof mares. Good clean timothy hay free from mould should be used. One of the most important things in keeping the brood mare in shape is regular exercise.

The Stallion.

What has just been said with re-gard to the mares' need of exercise is also true with regard to the stallion. More stallions are ruined by being maintained in too fat a condition than from any other cause. The stallion from which the best colts will be obtained next year, other things being equal, is the stallou that is worked regularly throughout the winter this year. He should not be allowed to go hungry nor should he be fed on too rich a ration. It is a fallacy for breeders to choose the services of a stallion that looks the nicest. This tempts the owners to endeavor to catch trade by maintaining their horses in excessively fat condition, and this in turn detracts from the value of the stallion as a colt getter.

Well Done, Manitoba

E DITOR, Farm and Dairy.--I have just returned from a six weeks' visit to the International Soil Products Exposition in the south where Manitoba was making a name for her-At that Exposition we captured. self. in competition with the world, sweepstakes, first, second and third for wheat; sweepstakes, first and second for oats; sweepstakes and first for rye; first and second for flax, no sweepstakes prize being given; first for barley and numerous other first and second prizes. In addition to this the exhibition of the Immigration and Colonization Branch proved to be the leading attraction of the International Soil Products Exposition.—Louis Koin, Superintendent of Immigration and Colonization for Manitoba.

The least expensive method of The least expensive method or building up a wornout soil is to use just enough fertilizer to get clover started, and get clover in the land at every possible opportunity.

The liberal feeder is the only man who should invest in pure bred stock. Good strains have been built up by men who took advantage of the care-ful use of feeding stuffs as well as hereditary forces.

exceeded this amount during the past exceeded this amount during the past two years, and promises a still further rise during the next two years, one is asfe in anticipating a reasonable profit in hamb finishing, in spite of the very high price of lamb at the present time. If this applies to the purchasing of would almost for winter feeding, it would almost for winter feeding, it would almost for winter feeding, it should be a start of the salways profitable to finish lambs theory nuting them on the marice. on the market.

Feeds For Winter Lamb Finishing.

The selection of feeds for winter use should be to replace good pasture grass in every way possible. Grass is the ideal ration for sheep, not only in cheapness but also in nutrition, palatability, and succulence. A large num-ber of feeds have been tried in this rk, and these may be briefly treated under the four headings; dry rough iges, succulent roughages, grains, and

Of the dry roughages, alfalfa hay is an easy leader, closely followed, howan easy leader, closely followed, how-ever, by fine clover hays and fine mix-ed hays. At the Experimental Station, Lethbridge, ARa, it has been found that alfalfa hay, when properly fod with succellant roughages and grain, is worth \$21 per ton for the finishing of lumbs. It has also here found then alworth \$21 per ton for the finishing of lamba. It has also been found that al-faifa hay alone or with meal is less profitable than when succulent rough-ages, such as roots (turnips and man-gels) or green out sheaves, are also fed. What applies to the rich alfalfa hay also holds true with clover house. hay also holds true with clover have Good quality clover hay is worth from 10 to 50 per cent, more in lamb feeding than timothy or similar grass hays. Proving the value of succulent roughages, it was found also that good quality timothy hay plus mangels gave from 15 to 20 per cent. more profitable gains than clover hay alone. A hay made from peas and oats, well cured,

(13) Wi'l We Finish Lambs for Block? will produce satisfactory gains, but at (Continued from page 3). exceeded this amount during the page

with oat sheaves. Fine corn stover will also nake profitable gains, but there is a large percentage of waste. However, a small amount may be fed satisfactorily as a supplement to good quality leguminous or grass hay. Coarse hays commonly found in marsh lands are approximately found in marsh lands are approximately for cent. less valuable in tamb finishing than good quality timothy hay, and approximately 60 to 75 per cent. less efficient than clover or alfalfa hay. A limited amount of straw may be fed satisfactorily in finishing lambs, but this should only be as a supplement to

clover hay and roots. Generally speak-ing, the richer the hay and the better it is cured, the more profits will be made in feeding it to lambs. Coarse, dry roughages of any sort are less palatable, more wasteful and less profitable than are the finer feeds of

Succulent Roughages.

Succulent roughages play a very large part in profits from lamb finish-Inc Generally speaking, good succulent roughages, such as turnips, mansugar beets, corn ensilage, pea gels and oat ensilage, or the like, make the dry roughages and grains more palatable and more digestible. Again, these table and more digestible. Again, tnesse succulent roughages are cheaply grown and are rich, nutritious foods in themselves. Where corn ensilage may be raised for 32 per ton, it is the chappest and best succulent roughage for lamb finishing. When fed with clover hay and grain it will produce clover hay and grain it will produce five per-cent, greater profits than a mixture of turnips, clover hay, and grain. However, a mixture of turnips and enslinge with hay and grain will usually give greatest profits. The turnip is the safetist root to feed in finishing lambs, particularly where wethers or even ran lambs may be (Continued on page 20.)

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