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TO SMASH THE HUNS WHEAT IS AS ESSENTIAL AS SHELLS

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FEEDERS CORNER Conducted by E. S. Archibald.

Feed for Cow Test.

Feed for Cow Test.

EXTPOT my best cow to freshen in June. She should make 70 or 80 fbs. her on test. We are going to put the ron test. The pasture is good clown, the outest. The pasture is good clown, the contract is good clown. The pasture is good clown should be contracted and the contract of the c

grain rations which might be success grain rations which might be successfully fed to cows on pasture, and if it is desired that the very best record be made, one of the following rations, even though slightly too expensive for regular commercial feeding, may be used advantageously. Grain ration No. 1 consisting of oats two parts, bran two parts, oilcake one part, dry distiller's grains two parts and cottonseed meal two parts, will be found satisfactory. Another ration very suc-cessfully used by many feeders consists of bran 200, dried distiller's grains 200, oats 125, gluten 125, cotton seed meal 100 and oilcake 100. cheaper ration might consist of ground oats 200, ground corn 100, dried dis tiller's grains 200, cottonseed meal 100. Undoubtedly, at the present price of grains and concentrates, such rich concentrates as cottonseed meal and dried distiller's grains are the cheapest per pound of protein, but it is necessary that a limited quantity of oats, bran or the like be used in order to keep the meal ration light and palatable.—E.S.A.

Alfalfa and Corn-No Grain

Alfalfa and Corn—No Grain
A Tan Inatitue heid here last winter,
a speaker contended that the most
made profit from dairy cows would be
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ling absolutely no grain, except to very
beavy milking cows. Was this good adrealing the common description of the
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Whether or not grain can be profitably fed to dairy cows depends largely upon the condition and quality of the cows, the amount of milk which they are capable of producing and the price of meals. Generally speaking, it does pay to feed a limit ed amount of grain to cows produc-ing a reasonable amount of milk. The food requirements of the cow are twofold namely—for a bodily mainten-ance and for milk production. For the pregnant cow there is the third utilizing of feeds consumed. The 1100 pound dairy cow requires .533 pounds of digestible protein per day for bodily maintenance. For the pro-duction of 30 pounds of milk containing 3.5 per cent, butter fat there is required 1.35 pounds of digestible protein, hence there is required for the 1100 pound cow giving 30 pounds of milk at least 1.88 pounds of digestable protein. With the feeds mentioned, there would be required 22 pounds of alfalfa hay, 40 pounds of corn ensilage and 20 pounds of mangels. It is quite probable that with the present feed prices, such a ration for the cow producing 30 pounds of milk might, under certain conditions, be more profitable than where grain was included. However, the writer would strongly advise that part of the aMalfa hay be replaced with about four pounds of a meal mixture composed of bran, ground oats, dried dis-tiller's grains and cottonseed mixed equal parts. It must be remembered that the alfalfa hay contains double the amount of digestible protein of that contained in mixed timothy and clover hay, and over three times the amount of that contained in clear timothy hay. The quality of the alfalfa hay also very largely would govern the advisability of feeding a greater or less amount of the above meal mixture. Generally speaking alfalfa is worth nearly as much pound for pound as bran in the production of milk, and where this leguminous crop can be grown successfully every effort should be put forth to do so.—

Pasture for Work Horses.

Pasture for Work Horses.

WOULD like some light on handling our working horses through the summer. Will need them for work on the farm, will do a little teaming besides, but there will be days at a time when they them on pasture during the idle days, or should I keep them on day feed, always hard and ready for work?—J. P., Oxford Co., Ont.

Whether or not it is advisable to turn the horses on grass during idle days depends largely on the feed which they are getting and the amount which they are getting and the amount of work which they are required to do when in harness. Above all, it is necessary that all changes in feed must be made gradually. Hore a which have been on regular hard work during spring and early summer should be let out on grass only for a short time until they are accustome to this soft, succulent, laxative food If these horses are to be idle five days or more it might be advisable to dis-continue the hay ration after the second day. If, however, the idle per-fods amount to only one or two days it would certainly be advisable to continue the hay ration and reduce the grain ration not more than one-third. Although the writer is strongly of the opinion that all horses are better from having two weeks or more ture each year, yet he would strongly advise against the practice of making the horses subsist largely on pasture for the roughage when on regular work. If the horses are to be always ready for hard work it is advisable that the ration should consist largely of dry feed .- E.S.A.

Millet Seed for Stock.

HAT is the value of millet seed as a stock feed? To what classes of stock can it be fed most advant-ageously. Please make particular men-tion of its value for horses.—Subscriber, Ontario Co., Ont.

Millet seed can be fed most advantageously to hogs or lambs. Experithat in hog feeding it could be suc-cessfully used, but that it required one-fifth more than either wheat or barley in order to make the same be fed alone, and is better mixed with corn or barley or, better, with the richer protein meal, such as linseed oilcake or wheat middlings. If fed in any quantities it tends to produce soft pork. Ground millet seed has also been used to good advantage in the feeding of beef cattle, but about six per cent. more of this grain is required than corn in order to produce the same gains. There is here also, a tendency to produce soft meats.

Millet seed has also been used to advantage in the feeding of lambs. It, however, must be crushed and fed in conjunction with some other grain. Under these conditions it has about the same feed value as corn. There is no experimental evidence as to the value of millet seed in the feeding of horses, nor has the writer had any experience therewith. Whether or not there is the same danger in the feeding of millet seed to horses as there is in feeding millet hay is doubtful. However, there seems no reason why a limited quantity of millet seed, not exceeding twenty per cent. of the ration and mixed with oats or oats and bran, could not be fed successand oran, could not be red success-fully. If there is any appearance of stiffness or swelled joints or any di-gestive derangement the crushed mil-let seed should immediately be dis-continued.—E.S.A.

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