Grasses and Forage Plants.

Rod-Top-Agrostis Vulgaris.

The Red-top, Agrostis vulgaris, illustrated on this page, is one of the best known of our grasses, and one which, although lightly esteemed by some tarmers, is a really prepared. Every reasonable farmer knows that this seed put out in good time. valuable grass, in some situations being the most valuable of all grasses. In Pennsylvania it is known as Herd's grass, in New England as Burden's grass. It grows from one to two feet high, and flowers in July. Its favorite home is in wet pastures and swampy meadows, where its roots interlace and consolidate the sward. Its seeds weigh about twelve pounds to the acre. Cattle relish hay made from this grass, especially when mixed with other varieties. Dairymen value it as a pasture grass.

The Woburn experiments give the following as the product of an acre :- 10,209 pounds of grass, which, in drying, lost 5615 pounds and afforded 532 pounds of nutritiva matter. At the time of seed-ripening it yielded 9,528 pounds of grass, half of which disappeared in drying and from which only 251 pounds of nutritivo matter were obtained.

Mr. Charles Julyan writes us from Presqu'ile, Owen Sound, with respect to this grass :- " It appears to be indigenous in Canada. I have noticed it on my farm, amongst other grasses, although I have never sown it. The flowers are in a loose open panicle. The spikelets are one-flowered or one-seeded, and the whole head has usually a reddish purple color, very conspicuous where growing in quantity in meadows. It grows about two feet high ; roots creeping. This grass is widely known. In England it is called Fine Bent. It succeeds best on rather moist soils, where it is one of the most valuable grasses, although as a whole, much inferior to timothy. . is well adapted (like June grass) to sow with the latter, and forms a dense sward over the surface, which otherwise is left bare after cutting timothy for hay. It is perennial, and makes good permaner t pastures in which it should be fed down so as to prevent going to seed, which renders it unpalatable. It is one of the best lawn grasses, and sown with June grass and white clover, forms with weekly mowing a beautiful green carpet. The seed is small and four to six quarts usuany seeds an acre."

Manure for Grasses.

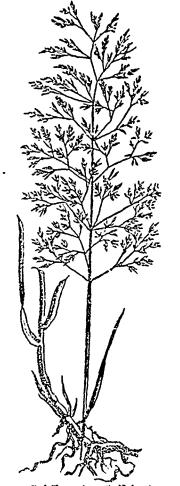
The Michigan Agricultural College experimented with different manures as top-dressing for grasses, with the following results, as reported in the Michigan Farmer .

following results, as reported in the Mickigan Farmer. The results of a single top-dressing on eight plots of nearly half an acre each of sandy warm soil, exhibited the follow-ing facts at the end of three years; the top-dressing was applied in 1864, and the grass was cut twice each season in 1864 and 1866. The produce of each cutting and of each lot was weighed separately and a perfect record kept. The results of the four seasons were as follows: On the plot to which no manure or fertilizer was applied, the total weight of hay yielded per acre was 8,740 pounds. Where two bushels of plaster per acre were applied the yield per acre was 13,226 pounds, gain of 4,454 pounds. Where five bushels of solt were sown per acre, he yield was 13,969 pounds, a gain per acre of 5,227 pounds. Where 20 loads of muck per acre were laid on, the yield per acre was 13,816 pounds, a gain of 5,074 pounds. Where 20 loads of horse manure were laid on, the yield was 14,686 pounds, a gain of 6,224 pounds. These are results which indicate that there are fertilizers which will produce as good results as plaster. For instance, the plaster yield da gain of 511 por cent., while the horse manure gave an increase of 71 per cent., or nearly a ton more grass per acre in the three vara per cent, or nearly a ton more grass per acre in the three voars.

FREQUENT SZEDING ADVISABLE -- Clover is at its best for FREQUENT SZEDING ADVISABLE.—Clover is at its best for pasture or hay the second year after seeding. If allowed to grow through that year, its roots extend as far as they ever will, and the ley is in best condition for ploughing. If kept longer the clover runs out, and its place is left vacant or tiled by weeds and inferior grasses. If timothy is mixed with clover at seeding, it will partially occupy the ground as the clover retires, but never so fully as if the original seeding was timothy. In short, keeping a clover sod over the second or third year, at most, is generally bad policy, and should be discouraged. For one or two years land in clover increases in fertility; after that the advantage is less until another seeding is had.—Country Gentleman.

Mixing Clover and Timothy.

The custom of sowing timothy and clover together is an old and extensive one, and pretty well established, showing that it has something to recommend it; yet an immensu loss is sustained as it is now practised. In the first place, thers is the too common habit of thin sowing, then that of late sowing; also that of sowing on poor land or land badly



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ing what the farmer neglected. But this is a slow process, and will not succeed if the land is not suited to it, which it rarely is. We cannot afford to wait; it is loss. It is a blind effort to attempt to grow a good crop on poor land, whether this crop is of grass or grain. It requires a good soil for grass or clover, as well as for grain or anything else. But we seem to be thoughtless. We are apparently of the opinion that forage plants are an enricher of the soil (which is true enough), and all that is necessary is to put in the crop. The failures have been so numerous that it is a surprise that farmers should persist in such a course. They do not es. to the cost.

Thus much for general seeding. Now for clover and timothy in particular. The usual way 1s to sow equal parts by measure. This is the cause of much mischief. Where the land is good and the seeding a thick one, as it should be, the first year or two will show a heavy yield of clover, which smothers the timothy. At the end of the two years, when the clover disappears, the land must be re-ploughed or re-seeded, which may be done with advantage. Harrow well in the spring as soon as the land will bear it; sow and cover the seed; a Thomaa' smoothing harrow is the best to

do this, as it does not bury the seed too deeply; or sow on the late snows. This will afford a crop the same season, and secure a good stand. The fault here is the loss of the seed (timothy) in the first sowing. The clover should have been sowed alone. This is the plan I prefer. Get all the clover the land will bear, by preparing the soil well and sowing thick. This will be one of the most paying crops, and besides, the land will be prepared for the timothy which is to follow. It will be largely enriched and made mellow, and insure a good catch if the seed is put out in good time.

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A crop of pure clover is excellent as a crop by itself, capable of being made a large yield, and is highly nutritious for winter feed, while the land is immensely improved; but it does not leave it a meadow. Clover is eminently a grass killer. There must be a chance given for the timothy, and from the start, else the powerful legume will smother and kill it.—Cor. Country Gentleman.

Lucerne-Alsike.

EDITOR CANADA FARMER :-- I have neither heard nor seen anything of Lucerne in this part of the country, although I have seen English Rye-grass mixed with Alsike and Red clover, and looking well on a farm in this township. The proprietor approves of Alsike clover as a forage plant. It was not growing so long as the red clover when I saw it, but he assured me, he had count.d one hundred and forty-three stalks growing from one root. Some years ago in a wet summer I saw a stalk of Alsike about 8 fect long, but I believe it requires a good soil and a moist season to grow so long as that, unless there are two variotics of it.

I seeded down a field of spring wheat with Alsiko and Timothy last year. The Alsike took well, but the Timothy did not. This season it is, as might be expected, considering the severe drought we have had, very short ; and the crop of hay throughout the country will be very short. Very little fall wheat is sown in this country, except on the Indian Peninsula and there it will hardly exceed half a crop, being badly winter killed.

Spring wheat, barley, oats, and pease, are looking well though rather short in the straw. Potatoes are looking well, and where pains are taken to destroy the potato beetle, will perhaps give a good crop unless the present dry weather should continue throughout the growing season, but the grubs which in some places frequently injure the crops are very little complained of. Mayfield beans are generally more or less injured by them, but this year I have not noticed a single bean cut down by them, though, owing to the drought, many of the beans failed to germinate.

SARAWAR. Owen Sound, July 20th.

GRASSES FOR LIGHT SOILS -Flint recommends the folby the clover, 4-total 40 pounds.

LAWNS.-Mr. Elliott writes to the Gardener's Monthly: -"Glad to see again your caution about barnyard manure as an indication of weeds: you should also say, use no street sweepings, for they are all full of weed seeds. Your former words advising well rotted mould spread over