# Grasses and Forage Plants.

### Forage in Drought.

From Kingston westward we have had the usual summer drought, so trying to stock of all kinds. but especially to milk cows. In some places the pastures have been completely burned up, losing all tinge of green. The county of Wellington has suffered to a greater extent than usual. In the vicinity of Guelph the commons have worn a yellowish, rusty look, and the short, withered grass has cracked and rustled under foot, so crisp had it become with the combined action of heat and drought.

And yet, though this condition of things has become periodical if not chronic, the mass of our farmers make no provision against it, and are annually taken short, and astonished that their fields yield no forage. Are they ignorant of the fact that nature has provided a plant well suited to this climate, and exactly adapted to carry the herds through the emergency created by the dry season? Have they never heard of the high merits of Indian corn as a summer forage crop? Able to hold its own, and to flourish when other forage plants wilt down and die, full of succulent juices, yielding enormously to the acre, what more or better could be desired as a resource when all other green things fail? It is, we fear, less ignorance than prejudice which deters multitudes from the cultivation of this valuable crop. Farmers in the Old Country never grev .t. Moreover, it is a Yankee affair. Not a few who have got over all prejudice against "Yankee notion." in the shape of reapers and mowers, hoes and hay rakes, still stand in their own light as to the valuable product under consideration. We have travelled for miles and miles the present summer through districts utterly parched with drought, without seeing a single acre, half or quarter acre of green corn waving its dignified defiance to the brazen sky and the burning sun. Now that the effects of the hard "dry spell" re fresh in memory, is a good time for us to urge and for our readers to f el the importance of having a patch of corn another year. We beg every farmer to try it, even on ever so small a scale. Choose a bit of the richest land on the farm. Sow it broadcast, after danger of spring frost is over, or, still better, drill it with Indian corn of the horse-tooth variety Then when in August next the pastures are dry and withered, the milk-pail deficient, and the cattle hollow sided, fancy what a treasure a corn-patch covered eight or ten feet high with sweet, rich, juicy feed will be. This forage crop is easily raised. It wants no attention. The dense shade it makes will smother down all weeds. It draws largely on the atmosphere for sustenance, and therefore does not impoverish the land, which it leaves moist and mellow, fit for any subsequent tillage and succeeding crop. We say to all, do not let another drought catch you without a good plot of green corn in reserve for such a time of need as has just been experienced.

150 to 300 bushels to the acre, according to condition of soil, and the catch of grass-seed-whether on low or up-land-will exceed that obtained in any other way and every dollar invested will come back in the gram and first hay crop; after that the extra result will be clear gam; as the effects of the appli-cation will last from six to eight years. Applied as a top-dressing, leached ashes are highly beneficial, but land should not be too much run out, if it produce only 500 pounds of hay, plough rather than top-dress; if it produce one ton of hay to the acte, apply 200 bushels of ashes, and in two years you will cut sty pounds, red clover, six pounds, white clover, three two tons of hay under ordinary chemistrices pounds. This would give forty pounds peracre, and the Whether it will pay or not will depend somewhat principal grasses sown are those known to do well on the price of the ashes, the distance to be drawn, in the west. If the object be to produce a thick or any other fertilizer of equal value being obtained matted sward as quickly as possible, the red clover two pounts of the control of the c

and modes of application are matters of discussion, and these—notwithstanding all that has been said and written—are still unsettled questions. But grass, or anard grass, rough-stalked, and wood mead-there is not the shadow of a doubt, that well rotted and very fine barn-yard manner is the best for top-dressing early in the fall—say September, or, carber meadow, meadow fescue, and white clover should still, in August, the last summer month. But it put predominate, with perhaps some alsike clover, on late in the fall, then coarse, strawy manure is the what very the kinds sown it a first-class pasture is on late in the fall, then coarse, strawt manufe is the best, because there is less loss from washing Although we prefer well-rotted and time manufe, yet when we have come to consider the length of time to wait and the increased cost of bringing our manure to the proper fine condition, we have generally- rankee . the—used it in its coarse and half-rotted state. Still even in this way it pays, especially if the brush harrow be drawn over it, and a little grass seed sown. We have generally used from ten to fitteen ox loads to the acre. We have sometimes used a compost of muck, lime, ashes and manure, to great advantage. We top-dressed last fall- in September—over three acres with the above inixture, and we shall cut this year more than doubte the amount of hay we did last year on the same ground, and it was pretty good

We top-dressed last fall and this spring alout ight acres, ant to all appearance we shall cut from eight to ten tous of hay more than last year on the same land. Included in this were three acres of orcharding, mostly old trees, and I notice that the trees are looking very much better, greener and healthier, and it makes the grass grow under them too; so often in more ways than one top-dressing will

## Mixed Grasses for Pastures.

The value of a meadow consists in the amount of hay it will produce. Therefore, since it must be cut and cured to be available, it should be sown to such grasses as will ripen at a given time or nearly so. With pastures the case is different. The greater number of good grasses you can get into the pasture the more valuable it will be, and it is not necessary that they mature at, or nearly at, the same time, the pasture will be better if they do not, for this succession will give more feed than if there was a flush of grass during one portion of the season and a arcity at other times.

scarcity at other times.

If there were such a variety sown as to give a constant succession of growth, the pasture would be always green, where there was sufficient to support growth. This is not always the case in the United States, and especially in the west. Our annual droughts in July and August are terribly severe on both meadows and pastures. Nevertheless, we believe it will be possible, with care in the selection of proper grasses for sowing, to have pastures, if not of English grouness, at least such as will compare measurab. Crewith, except for about a month in the heat of summer. the heat of summer.

little seed for permanent pasture, and also, as a rule,

The following is a list of grasses that it would be well to experiment with for permanent pasture in the west, which we give in the order of their ripening, and with the number of pounds per acre to be sown in the mixture. They are: Sweet-scented vernal grass, one pound, orchard grass, seven pounds; in adow foxial, two pounds, meadow fescue, three pounds, Kentucky blue grass, five pounds; redtop, tour pounds, Italian rye grass, three pounds; timothy, six pounds, red clover, six pounds, white clover, three cheaper.

Barn-yard Manure

There is no doubt of its value; only conditions and modes of application are matters of discussion, and the pasture would eventually consist of those grasses most suitable to the soil and climate.

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intervied, so soon as the sod gets firm enough to bear the tramping of hoofs, it should be closely fed and kept rich, but never allowed to be tramped when in a soft and muy state, as is the case early in spring and sometimes after long continued rains.

### Lucerne.

A correspondent of the Country Gentleman writes that journal as follows :-

"Please tell me through your valuable paper all at you can about lucerne—where the seed is to be that you can about lucerne—where the seed is to be obtained, price per bushel, how much to the acro should be sown, if likely to make a crop in this state, the best soil, etc. The accounts I have read make me anxious for the truth. If they are true, it must be a most valuable crop for hay."

Our contemporary replies :-

"The seed may be obtained of B. K. Bliss & Son, of New York city, and at other large seed stores, at about the per lb. About 15 lbs are needed for an acre. It requires a dry, deep and rich soil, and good cultivation till established. Under ordinary management and with common soils it is not very success. tid, but with suitable soils and management, it gives heavy and profitable crops. We cannot recommend it for general culture, but it is well worthy of limited trial in different localities."

A MAN in Stark county, Ind., pays his boy ten cents a quart for potato bugs, and the boy says that it next year is as good as this he can buy the old

SMALL STONES IN THE MOWINGS .- It is an excellent practice to go over the mowing fields just after haying and pick up and carry off loose, small stones, which may have been startled by the tedder or horse-rake. A few hours time spent in this way some cloudy day, will afford the satisfaction of knowing that there will be nothing in the way of the mowing machine knives when a second crop of rowen is ready to cut, or when the machine comes around next year. Besides it may save expensive breakages and serious delays while the duplicate parts are being sent from long distances. Moving machines always seem to break just when they are most wanted. Small fast stones that are too small to be seen in thick grass, may atten be knowled out of the year or have their may often be knocked out of the way or have top broken off by a heavy sledge hammer. It will pay to try it.—N E Farmer.

Top-dressing of Grazs Lands.

A correspondent of the Maine Farmer improves a rainy day, during haying, by communicating to his brother farmers his views on the above subject. They are practical, common sense, and timely. He says. "To consider the subject properly and in all its varied relations, would require a longer experience and a closer observation than has been accorded to us, but what little we have shall be given freely, though in an article like this there is not room for any extended remarks."

Leached Ashes

We have used this fertilizer largely, but mostly on tillage land when seeding down to grass. They are of inestimable value to the State. Use from the should be allowed to go out of the State. Use from the should be allowed to go out of the State. Use from the should be allowed to go out of the State. Use from the should be allowed to go out of the State. Use from the should be allowed to go out of the State.

Top-dressing of Grass Lands.

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