

Now the bud derives no small portion of its nourishment from the atmosphere, and the more, therefore, that the eye or bud in the subterranean stem of the Potato is brought in contact with the air the larger and more nutritious will be the cellular tissue around. And what method should be pursued to effect this? The earth ought to be frequently loosened or stirred up, and raised high on the aerial stalk, so as at once to admit a free circulation of air and give encouragement to the formation of new subterranean buds.

C. HAY-MOWING.—Before another number of our Journal be issued, the time may have arrived, in the more early situations of the Province, for the cutting of the artificial grasses and preparing them for being stored in the Barns. A word or two had better now be advanced, touching the time that the grasses should be mown. Glaring mistakes are committed by not a few, on this point. Their great object seems to be to obtain a bulky crop, and therefore they allow their Timothy or Ryegrass to remain long after the flower has disappeared, evidently ignorant of the fact that what they gain in quantity they lose in quality. Every one acquainted with the laws of Vegetable Physiology, knows that the flowering process is exhaustive, arising evidently from the nature of the substance exhaled by the flower. The leaves of the plant exhale oxygen gas, and hence a copious supply of this supporter of animal life is thrown off into the atmosphere; and hence, too, the mistake that plants in the bed-chamber of a delicate consumptive person are, under any circumstances, injurious. The flowers, on the contrary, exhale carbon, thus depriving the vegetative organs, the root, the stem and the leaf, of a considerable portion of their strength, and especially of that substance which, in a climate like this, with its severe and protracted winters, is of peculiar value.—There cannot therefore be a doubt that the best time for cutting the artificial grasses is just when the flower-stalk has reached its height and is about to burst into blossom. It may not be very easy to fix that time, when the Hay Crop is made up of natural grasses, as is the case in almost all our Marshes and Intervals. But there is no such difficulty in the case of cultivated grasses or clovers. As, then, the Sugar-Cane Planter carefully observes the time when that valuable plant is on the eve of flowering and orders it to be cut, so ought the Farmer in reference to his Hay Crop. We may advert to the matter of Hay-making in our next. Let it suffice in the mean time to notice that the less the Hay is bleached by the rain or exposed to the evaporating influence of the summer sun, and that the greener it is lodged in the Barn, provided it be thoroughly dried, the more nutritious will it be for the cattle.

Want of space compels us to leave out altogether the Horticultural Department.

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THE JOURNAL

OF

Education and Agriculture,

FOR NOVA SCOTIA,

IS EDITED BY

THE REV. ALEXANDER FORRESTER, D. D.,
Superintendent of Education for the Province,

AND PUBLISHED BY

A. & W. MACKINLAY,
BOOKSELLERS & STATIONERS, GRANVILLE STREET, HALIFAX,
on the 15th day of each month.

TERMS —One Dollar per annum, payable in all cases in adv. nec.
This Journal will furnish a good medium for all Advertisements connected with Education and Agriculture. Advertisements not exceeding six lines, inserted for 2s. 6d.; those exceeding six lines, at a proportional rate.

JAMES BARNES, Printer, 179 HOLLIS STREET, HALIFAX.