of barley meal, beans, and oil cake at less than one fourth of the price charged for the beforementioned cattle food. As to the stimulating properties contained in these foods, I am inclined to think their constant use is very questionable, and very likely to be productive of harm.

Practical Expense and Results of Tile Draining in Canada.

COMMUNICATED BY HANRY J. BOULTON, OF HUMBERFORD.

EDITORS AGRICULTURIST, -The report condensed for the columns of your publication of the 16th January, from an address by Mr. Dunlop, of East Zorra, evinces an active interest in that locality in a subject which deserves a general and constant attention, far beyond that which our farmers have as yet bestowed upon it. Why is it that of the many settlers among us, who in the old countries have experienced, or at least witnessed, the immense benefits derived from the underdraining of farm lands, so few come forward here to apply the practice in their own account, publicly to recommend it to their neighbours, and strenuously to aid and assist in procuring the adoption of such legislative measures as would remove the physical difficulties which impede it through want of general arterial open drainage, and would facilitate the introduction and distribution of capital, without which few, if any, of our agriculturists, can proceed in the work upon any large scale. It is now some two or three years since the matter was first submitted to public discussion, and though some progress has been made, still the steps in advance have been very slow and halting. few have dared the experiment, and these have failed to give publicity to their success. is only by the example of tangible results that a practical science, such as agriculture, can be improved or taught, all those engaged in this pursuit should not fail to make known such facts, occurring within their own experience, as may establish the benefit and practicability of any improvement sought to be introduced.

As in your paper all subjects of this nature receive careful and useful attention, no farmer in the country should be without a copy, and all should endeavour, by their own contributions, both in the way of statement of facts, and of explaining the rationale of different appliances of cultivation found to be beneficial.

As to the utility of thorough drainage of land, nothing would bring it home more forcibly to the minds of the farming community than a constant report being sent in by individuals, and published by you, of the extent, be it ever so small, to which it has been applied, and the practical results which have been observed to flow from it, not forgetting the actual expense

of the work. I would therefore call upon every farmer to furnish a statement of this kind, whence it be for publication or to enable the Editors of the Agriculturist to report from time to take the actual progress made in this most important work. As more is done and more is known, the examples previously given will be oftenered more confidently followed. To this end I will to submit a statement of my own operations:

My first performance in this line was in its autumn of 1849, in the first wheat field which ever sowed, when I laid about 90 rods of drain in about 10 acres of land, though the lower parts of the field with chestnut staves placed in the form of an inverted V upon a pine slab, thus A. These drains, at an average depth of so inches, cost me 20 cents per rod, material sel all, and are yet in very good order, though the water up from the outlet all the way along the bottom of the digging, and the river into which they discharge is generally above the mount; the drain, which is only kept clear by the low of the water in the soil above compelling its boil out.

This was the first effort of a book farmer, aid although the seed was sown upon an old wor out field, at an expense in pulling stumps, many ing, liming and draining, which would have frightened many an older hand, the crop repair the outlay with a good return of increase, felly one-third of the crop Living been saved by the drains. I wish all my farming operations be been continued as I began; but after this I & lowed in the track which so many have pursue? before and since, of planting many acres of grain in an insufficient manner, and in many case barely receiving back my seed. The farm which I worked upon was certainly in bad order; a well seeded grass fields; no good fences; pleat of stumps, and no buildings. However, after gaining a little experience, and getting about 120 acres into pretty fair order, I rented out the farm, and in 1854 removed to another work where I now reside. 'Here while diversifying my employments by dabbling for three or four year in mill-dams, saw-mills and grist-mills, thus ex tending my general information, but adding to the numerous body of those who having to many irons in the fire suffer accordingly, I again went through the ordeal of fencing, building stump pulling and seeding, and again about 18 began a few experiments in underdraining. first I had recourse to my old acquaintance, the slab drain; then I made a bold move and bough one or two loads of horse shoe tiles, then a fer pipes, laying in this way in small quantities an detached spots some four or five thousand tile or between two and three hundred rods. The labour of these alone cost me about 25 cents. rod, neither my men nor myself understandir the proper way to proceed. In 1858 I visite England, and having had opportunities of e amining into these matters, I returned with some