

will continue to furnish the necessary amount of fuel for a family. In reference to stock, great care should be taken to improve the ordinary breeds of the country, and then cross them with the best that are imported, and by these means obtain as good if not the best stock that can be raised in the world, climate considered. Poultry is a matter of consequence and should be attended to; the garden, nursery and orchard, should by no means be overlooked, and a rigid account kept of the receipts and disbursements of the farm. The profits of the establishment should of course belong to the owner; this being the case, it would naturally be managed with the utmost economy. These are my impressions of some of the requisites of a Model Farm.

The Experimental Farm I consider in an entirely different light. An extensive Farm of this description should be attached to one of the Colleges of Toronto, Montreal and Quebec, where the value of every kind of production which the particular section is capable of growing should be fully and fairly tested, together with the soil adapted to each kind of produce—the mode and time for preparing the soil, the amount of seed required, and the best manner of harvesting and preparing it for market; the producing of the most approved seeds should be carefully inquired into; a Seed Store, Agricultural Warehouse, and Library should be attached to the establishment; vegetable fruit and flowers of all kinds should be encouraged; the best breeds of horses, sheep and swine, should be imported and kept pure, and the best kinds of poultry should be introduced. A rigid account of the receipts and expenditures of each Department should be kept separately for publication, this being a public undertaking, it cannot be managed with the same degree of economy that would be expected from a private enterprise. In different sections of the Province remote from Literary Institutions of the higher order, miniature experimental Farms should be established in connexion with flourishing County Grammar Schools, where gentlemen of science having also a practical knowledge of things should be placed at their head. The principal of each should be one of the experts of the District, and it should be his duty to lecture before the Schools on Agricultural Chemistry; he should also deliver lectures in other sections and to furnish to the Agricultural Bureau at least two scientific papers annually, on the subject of Agriculture; he should also be appointed one of the Judges at the Grand Provincial Exhibition; the Farm should be rented and approved of by the County Agricultural Society, to be in connexion with the School; the stock and crops to belong to the person filling this situation; the experiments to be directed by the Agricultural

Bureau and Board, and a scientific account of them to be furnished for publication, and a careful account of moneys received and disbursed, also to be furnished; the produce of the farm to form a part of the salary for the remuneration of the Agricultural Professor, filling the situation of Farmer.

I have gleaned the foregoing observations from several sources; I acknowledge myself particularly indebted to Dr. Everett, from whose pen I send you a short paper, and who would fill our Professor's Chair should he be so fortunate as to get one; I feel also much indebted to Mr. Miller, Master of our County Grammar School, for his exertions in advancing the interests of education, and also of Agricultural science.

I regret that it will not be in my power to attend the next meeting of the Board of Agriculture at Toronto; but you will please lay this paper, together with copies of letters from Dr. Everett and Mr. Miller, which are herewith enclosed, and also the papers previously transmitted to you before the members of the Board when it shall have been convened.

I am, Sir,

Your most obedient Servant,

CHAS. P. TREADWELL,
2nd V. P. A. A. U. C.

George Buckland, Esq.,
Prof. Agriculture, Toronto University,
and Secretary to the Board of Agriculture.

POINT FORTUNE, 26th March, 1850.

C. P. Treadwell, Esq.

DEAR SIR:—Though I deem it probable that the Government will take the initiative in the matter of the Model Farms since the establishment of an Agricultural Bureau,—I will venture to throw together a few impromptu ideas relative to the subject; they are, however, only suggestive, for I have but a few minutes to write, and I had almost said less time to think. The outline would be something as follows:

1. The County Council and the Agricultural Society conjointly to select a site, to be purchased by Government.

2. The latter to choose the farmer.

3. The terms upon which said farmer is engaged to rest with the Government; the organ of communication being the President of the Agricultural Society; duration of engagement seven years; responsibility of farmer to the Government; any dissatisfaction expressed by a majority of Agricultural Society and forwarded to Government by President as above.

4. Implements of highest order to be supplied out of Legislative Grant.