

of having such a training extended to the farming community. The prosperity of a country depends to a great extent on the educational and general intelligence which characterizes that country. As the farming community forms a very large fraction of the population, and if education is necessary to exalt a nation, it surely follows that this fraction should receive that education. It is also expedient that each citizen should have correct ideas regarding questions that concern his individual and civil interests, and further that he should be able to express these ideas intelligently. How infinitely better would it be if farmers, instead of providing immense property or storing up large legacies for their sons, would send them to a college such as Queen's where they might receive a thorough education, and thus place within their reach the best means of acquiring these things for themselves. The college session lasting, as it does, only during the winter months, affords another opportunity of accomplishing this object, for, not being actively engaged in farm-work, many young men, endowed with good natural abilities, are allowed to spend the winter days, and especially the long winter evenings, in comparative idleness. Would it not be better for them to harvest those golden moments by pursuing for a few years a regular course of study which would not only make superior farmers of them, but would fit them for managing efficiently their own local and municipal affairs! In this way farmers would have in their midst men thoroughly competent to represent their suffrages in the Legislative Assemblies of the land, without being driven to the humiliating resort of selecting as their representative a glib-tongued lawyer—from a place perhaps three or four hundred miles away—who, in many cases, cares little about the interests of the people who have elected him to that honourable position. Farmers, do not neglect the thorough training of your sons if you have a desire to further the moral and social interests of your country.—*Queen's College Journal.*

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ANALYSES OF ARTIFICIAL MANURES OF THE ETIWAN PHOSPHATE COY, OF CHARLESTON, S. C.,

BY PROF. GEORGE LAWSON, SECRETARY
OF BOARD OF AGRICULTURE.

*Chemical Laboratory, Dalhousie College, }
Halifax, March 11th, 1879.*

MR. A. M. JACK,

I have examined the cargo of Superphosphates, consisting of 736 barrels, sent to Halifax by the Etiwan Phosphate Company of Charleston, S. Carolina, per Schooner *Kohinoor*, and stored at Pickford & Black's Wharf, and find them to be well made, and in good dry condition. Samples, selected from the stock by myself, yielded, on analysis, the following results:—

1. CERES SUPERPHOSPHATE.

Moisture.....	16.61
Soluble Phosphoric Acid (anhydride).....	8.59
Equal to Bone Phosphate of Lime.....	18.61
Reduced and Insoluble Phosphoric Acid (anhydride).....	2.01
Equal to Bone Phosphate of Lime.....	4.35

2. ETIWAN POTASH COMPOUND.

Moisture.....	14.04
Soluble Phosphoric Acid (anhydride).....	11.93
Equal to Bone Phosphate of Lime.....	25.85
Reduced and Insoluble Phosphoric Acid (anhydride).....	3.60
Equal to Bone Phosphate of Lime.....	7.80

My analyses show that the Superphosphates of this cargo contain even higher percentages of Phosphates, and are drier, than the samples analyzed by the Georgia and Virginia State Analysts. There can, therefore, be no question of their genuine character and purity. I can recommend them with confidence to our farmers, to be applied at the rate of a barrel (250 lbs.) per acre to grain, and two barrels (500 lbs.) to root crops. I have ordered 3 tons for use on my own farm this spring. The only caution I would give is that, being so rich in soluble phosphate, these manures should be well mixed with the soil or made into a compost before being put into the seed drill.

GEORGE LAWSON,
*Fellow of the Institute of Chemistry
of Great Britain and Ireland.*

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