

abundant in growth, and after growing continues to keep sound. According to Mr. Dawson there is a good amount in their soil. And their soil appears to have been and is still being made up from the sea.

Much of the phosphate manure at present used in England is imported in the form of guano and bones, and in fish, the bones of which contain a less quantity than those of mammals. The pampas, in warmer climates than this, are a bed of phosphate material. Perhaps originally grazing animals that live and die on these vast plains brought in their own bones and nerves the phosphorus from particular districts. And thus the great tertiary age in geology became a rich growth of land animals, the remains of which are left to our observation in the dense and inexhaustible mound that now furnishes, to a world-wide extent, the food of man and beast.

But the tertiary age is pretty much wanting in this country. Neither do we live in the neighborhood of volcanic rock that affords an agricultural supply of phosphorus. Yet no part of the soil in Nova Scotia is free from it. Every part of these Provinces so far as I am aware exhibits its boulder drift, indicating a period of oceanic submersion. Consequently all loose or made up earth, especially clay earth, contains a certain amount of the same material as contained in sea water. You do not find much of these in either the coal measures or sedimentary rocks older than the Devonian.

Probably the latter were formed under circumstances unfavorable to the distribution of these substances; the former in greater part under water. Whatever is the reason, we have no phosphorus in our soil to spare.

By the foregoing, we learn that the liquid manure contains three times as much phosphorus as the solid. Consequently, every farmer may begin to see by reflection, the reason why farms run out in this country, although the solid manure is duly returned to them.

I intend to proceed with this subject to the extent of one or two more papers. I hope I have afforded to those who have favored me with their attention, a pretty fair idea that they ought to save their manures. But as the subject grows, it is necessary that I cut off the articles at a convenient length.

Literary or scientific persons may find in these papers a certain amount of room for stricture. I hope they will consider, with me; that whatever seems calculated, although roughly put, to encourage the farmer in any line of improvement, ought commonly to be treated with the marks of approval, as the science and practice of agriculture must forever be the basis of all the world's prosperity.

CLOVERDALE.

## HALIFAX COUNTY AGRICULTURAL SOCIETY.

Y. M. C. A. ROOMS, HOLLIS STREET, }  
Halifax, 3rd December, 1872. }

The annual meeting of the Society was held this day, in terms of the act for encouragement of Agriculture. Present: Messrs. George Madill, Alex. Anderson, A. K. Mackinlay, Henry Yeomans, Benj. Bond, W. C. Silver, Wm. Veith, J. M. Geldert, Joseph J. Northup, W. Hutton, S. Caldwell, Thos. Byers, Alfred Saunders, Samuel Keys, D. H. Starr, Thomas Leahy, Richard A. Jennett, Edward Smith, and Dr. Lawson Secretary.

On motion of Mr. Anderson, seconded by Mr. Northup, Henry Yeomans, Esq., was requested to take the chair.

The minutes of last meeting were read and confirmed.

Mr. Anderson reported, on behalf of the committee named to purchase thoroughbred stock for the use of the Society. He gave details of the purchases made for the Society at the recent sale of stock imported by the Board of Agriculture, and stated that one thoroughbred Ayrshire Bull had been located at Mr. Smith's barn, for the use of members on the Peninsula; the rest of the animals had been sent to the Gay's River District, where they would be kept for the winter free of expense to the Society.

On motion of Mr. Northup, the Committee's Report was approved of, and the Treasurer was authorized to pay for the animals purchased. Messrs. Anderson, Veith, Geldert and Smith were continued as a Committee to attend to the arrangements for animals required on the Peninsula; and the members of Committee at Gay's River were authorized to make any necessary arrangements there, and, if necessary, to report to the General Committee.

Messrs. D. Henry Starr and J. M. Geldert having examined the Treasurer's books for the year, reported that they had found them correct, the balance in Treasurer's hands at this date being \$473.17.

The Society then proceeded to the election of office-bearers for the ensuing year, when the following were elected:—

*President*—The Hon. Sir Wm. Young, Knight, Chief Justice of Nova Scotia.

*Vice Presidents*—Henry Yeomans, Esq., Colonel Laurie, Geo. Madill, Esq.

*Treasurer*—W. C. Silver, Esq.

*Secretary*—Professor Lawson.

*Committee for Peninsula of Halifax*—

Alex. Anderson, Esq., A. K. Mackinlay,

Esq., Wm. Veith, Esq., Wm. Duffus, Esq.,

J. M. Geldert, Esq., Edward Smith, Esq.

*Committee for Gay's River District*—

Wm McKean, Esq., Samuel Keys, Esq.,

Benj. Bond, Esq., Wm. Wardrop, Esq.,

Isaac Logan, Esq.

On motion of Mr. Anderson, Joseph J. Northup, Esq., was nominated to represent the Society at the Central Board of Agriculture.

The meeting was enlivened by an elegant group of foliage plants, placed on the table by Mr. Hutton, from the Horticultural Gardens, including *Poinsettia pulcherrima*, *Dracæna Cooperi*, *Coleus Verchafeldtii*, also the following varieties of *Coleus*, viz: Prince Arthur, Queen Victoria, Beauty of Sunnyhill, and a nice selection of Chinese *Primulas*.

Gentlemen desirous of becoming members of the Society are requested to send their subscriptions (one dollar per annum) to W. C. Silver, Esq., Treasurer.

The Treasurer's Statement showed that 136 Members had paid their subscription for the pre-ent year, the total amount collected being \$143. At the meeting, seven additional names were given in.

The following is the Treasurer's List of Members for 1872:—

Anderson, G. R.	Northup, Hon. Jeremiah
Avery, Dr.	O'Malley, John
Almon, C. M.	Pazanty King,
Anderson, W. C.	Parker, John J.
Anderson, Willoughby	Power, Patrick
Anderson, Alex.	Pryor, H.
Albro, Edw.	Ross, Donald
Bligh, A.	Richardson, W. M.
Brown, Thomas A.	Ross, Peter
Black, M. P.	Ritchie, Hon. Judge
Black, W. L.	Saunders, Alfred
Blackadar, Thos.	Stairs, John
Brehm, R. A.	Silver, W. C.
Boggs, Thomas	Scott, James
Chipman Bros.,	Starr, D. H.
Crosskill, Geo.	Starr, John
Cunard, Wm.	Starr, G. H.
Caldwell, Saml.	Silver, John
Chipman, C. W.	Smith, S. S. B.
Cochran, Hon. Jas.	Stayner, Chas. H.
Creighton, J. G. H.	Stayner, E. G.
Crouan, D.	Stairs, W. J.
Curry, Richard	Tupper, S. J.
Crosskill, J. C.	Troop, G. J.
Downes, Andrew	Urquhart, Robt.
Duffus, J. B.	Vaux, C.
Duffus, John	Veith, W. J.
Doull, John	Woodill, W. T.
Duggan, Jas.	Walsh, W. P.
Dwyer, Michael	Whytal, J. L.
Esson, Geo.	Young, Sir Wm.
Esson, Wm.	Young, J. W.
Fritth, G. R.	Yeomans, H.
Forsyth, Alex.	
Fraser, Geo.	
Fuller, H. H.	
Gibson, John	
Graham, Chas.	
Geldert, J. M.	
Groves, Jas.	
Harrington, W. D.	
Hunter, C. D.	
Humphrey, Wm.	
Hutton, James J.	
Hesslien, Henry	
Harrington, W. H.	
Henry, Hon. W. A.	
Jennett, J. R.	
Kenny, T. E.	
Kenny, J. F.	
Kaye, Jas.	
Kandick, W.	
Longard, Wm.	
Lewis, D.	
Leahy, Thos.	
Lawson, W.	
Lawson, Prof.	
Mitchell, G. P.	
Mumford, W. B.	
Morrow, Robt.	
Morrow, J. B.	
Muncey, John	

The following collected by Geo. Madill, Esq., at Gay's River:—

G. W. Madill,
Jos Madill,
K. Yeomans,
A. McDonald,
Benj. Bond,
Jas. Bond,
John P. Wardrop,
Wm. McDonald,
John Mackwire,
S. Keys,
Henry Currie,
Alex. McKenzie,
T. Carroll,
Peter McDonald,
A. McPhee,
Lewis Colter,
Donald McDonald,
P. J. Bluctman,
A. E. Kenty,
Geo. Ross,
Jas. McDonald,
Robt. Logan,
W. Anuand,
Alex. Young,
Isaac Logan,