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Omnium rerum, ex quibus aliquid acquiritur, nihil est agriculturâ melius, nihil uberius, nihil homine libero dignius.—Cicero : de Officiis, lib. I, cap. 42.

VOL. IV.

HALIFAX, N. S., AUGUST, 1880.

No. 8.

CENTRAL BOARD OF AGRICULTURE.

SPEAKER'S ROOM, June 18th, 1880.

The Board met at 10 o'clock, a. m. Present—Hon. H. F. McDougall, Christmas Island; David Matheson, Pictou; John Ross, Boulardarie; Chas. E. Brown, Yarmouth; Israel Longworth, Truro; Jonathan Raud, Canning; Prof. Lawson, Secretary.

The Secretary laid on the table a note from Oakfield stating that in consequence of the burning of the Wellington Tannery, Col. Laurie, the President, was detained for a short time, but would reach the city by an early train. In his absence, Mr. Matheson, V. P., took the Chair.

The Secretary read a letter from Rev. Alex. J. Mackichan, Presbytery Clerk, Barney's River, County Pictou, requesting report made to the Board in 1872, in relation to the New Gairloch Society. Mr. Longworth stated that, having been applied to, he furnished the report as requested.

The minutes, constitution and bye-laws of the newly-formed New Glasgow Agricultural Society were read. The Chairman stated that the Society was a vigorous one, and gave promise of success and much usefulness in the district. The office-bearers are: D. C. Fraser, President; Daniel McGregor, V. P.; E. Cameron, Secretary; Henry Townsend, Treasurer; Directors—James Hudson, William McDonald, D. R. McPherson, Alexander McKay, Colin Fraser. The Board in examining the bye-laws, found

a few slight changes necessary in order to bring them into strict accord with the terms of the Agricultural Act. Bye-law 10th was disallowed as *ultra vires*. Bye-law 13th was disallowed as unnecessary under the Act. To bye-law 16th the addition is required of the words: "and approved of by the Central Board."

Moved by Mr. Ross, seconded by Mr. Longworth and passed, that the New Glasgow Agricultural Society be recognized as organized under the Act for encouragement of agriculture, and the constitution and bye-laws be approved of and sanctioned.

The Richmond Agricultural Society's bye-laws, submitted to a previous meeting, having been again read and considered, it was moved by Mr. Longworth, seconded by Mr. Brown, and passed, that all those portions of the bye-laws having reference to the imposition of fines be expunged, as, in the opinion of the Board, not justified by the Act. Whereupon, on motion of Mr. Ross, seconded by Hon. Mr. McDougall, the Richmond Society's bye-laws, so amended, were approved of and sanctioned.

The Board then proceeded to the examination of applications for registration of thoroughbred cattle in the new register, when Pedigrees of 18 Jerseys were submitted by Mr. Brown. Having been found correct, on motion of Mr. Ross, seconded by Hon. Mr. McDougall, these were accepted and authorized to be recorded, viz:—Pioneer, imported; Dick Swiveller 3rd, imp.; Bruno, imp.; Past Tyler, imp.; Tyler, imp.; Yarmouth, imp.; Darling, Plantagenet, Prince of Leo

Farm, Knight of Leo Farm, Brantiza, Nabritza, Azinbar, Bartizan, Bon Hampton of Hillcrest, Bilaptaur, Zabriuta.

The Board then adjourned.

3 O'CLOCK, P. M.

Business resumed. Present—Colonel Laurie, President, in the Chair; David Matheson, Vice-President; Hon. H. F. McDougall, Israel Longworth, Jonathan Raud, John Ross, Prof. Lawson, Secretary.

The Secretary read the following documents in relation to the proposed Exhibition in Cape Breton Island:

1. Extract from Report of Committee on Agriculture adopted by the House of Assembly:—The Committee would also recommend the following special grants, providing that the Government may have at its disposal the necessary means:

For Exhibition in Cape Breton.....\$1,500.

" Building in Queen's..... 300

These special grants are not to be given but in proportion to like sums subscribed respectively and paid.

2. "Copy of Minute of Council of 1st June, 1880, approved by His Honor the Lieutenant-Governor:

"The draft of prize list of the Provincial Agricultural and Industrial Exhibition of 1880, prepared by the Exhibition Committee of King's County, as approved by the Central Board of Agriculture, having been considered, it is recommended that the same be approved.

"The subject of the proposed Agricultural Exhibition in the Island of Cape Breton, having been considered, it is recommended that the management, conduct and regulation of the same be placed under the charge and direction of the Central Board of Agriculture,

whose proceedings in relation thereto shall be subject to the approval of the Governor-in-Council.

"I certify the same to be a correct copy.
" (Signed,) S. H. HOLMES,
" Clerk Ex. Council."

8. Letter from W. F. McCurdy, Esq., dated 15th May, 1880, notifying Board of action taken by Agricultural Societies in Cape Breton Island in relation to the Island Exhibition.

4. Minutes of meeting of delegates representing the Agricultural Societies of the Island of Cape Breton, held at Baddeck, 14th May, 1880, when, by a majority of two, including the chairman, who requested his vote to be recorded, Baddeck was chosen as the locality for the Exhibition.

5. Letter from George C. Laurence, Port Hastings, urging Board to confirm choice of Baddeck for Exhibition.

6. Minutes of meeting of Cape Breton Agricultural Exhibition Committee held at Whyocomagah, 11th June, 1880, when J. S. Hart, was appointed Chairman, George C. Laurence, Secretary, and a Committee of seven gentlemen resident in the County of Victoria, were appointed to prepare a prize list and submit the same to the Central Board for approval:—A. F. Haliburton, Wm. F. McCurdy, Albert J. Hart, A. A. McGillivray, John Morrison, L. Geo. Campbell, Joseph H. Hart. A motion was also passed requesting the Central Board to confirm the appointment of one member of each Agricultural Society to form a General Committee for the management of the Exhibition, with power to add to their numbers and to appoint sub-committees.

7. Draft prize list prepared by North Sydney Exhibition Committee, and submitted by Hon. H. F. McDougall.

The above-mentioned documents, and relative correspondence, having been read and considered, the following motion by Mr. Matheson, seconded by Mr. Longworth, was passed:—

"The majority of the representatives of Cape Breton Agricultural Societies, assembled in convention, having selected Baddeck as the place for the Agricultural Exhibition, but apparently under a misunderstanding as to the amount of aid to be received from Government,

Therefore resolved, that the accessible members of the Baddeck Exhibition Committee be telegraphed to, to ascertain whether they are prepared to carry out the Exhibition, as the Legislature has provided that aid shall only be given to the amount (dollar for dollar) actually subscribed by the locality for prize list."

SPEAKER'S ROOM, 22nd June, 1880.

Present—Colonel Laurie, President, in the Chair; David Matheson, Pictou; Israel Longworth, Truro; Jonathan Rand, Cornwallis; Hon. H. F. McDougall, Christmas Island; John Ross, Boulardarie; Professor Lawson, Secretary.

The Secretary read telegrams from Mr. John McKeen, Mabou; Mr. George C. Laurence, Port Hastings; Mr. Jacob S. Hart, Whyocomagah; and Mr. W. F. McCurdy, Baddeck, in reference to the Cape Breton Exhibition. Mr. McCurdy's

telegram read as follows: "The offer we made you of one thousand dollars for prize list, in addition to Government grant, we cannot promise to exceed. If your decision cannot be altered we can only offer a prize list of two thousand dollars, still strongly claiming Exhibition located here, and full amount of grant. W. F. McCurdy."

Hon. David McCurdy, Baddeck, attended the meeting and gave a statement of the steps taken with a view to carrying out the Cape Breton Exhibition at Baddeck. He pointed out the local advantages of Baddeck, in its proximity to the richest agricultural districts of the island, its central position and ease of access from all the Cape Breton counties.

Moved by Mr. Matheson, seconded by Mr. Longworth, and

"Resolved, That the President and Mr. Ross be requested to wait upon the members of the Government for the purpose of ascertaining the terms upon which the grant for Cape Breton Exhibition is to be given."

Mr. Matheson read a telegram from Mr. Thos. A. McDonald, Durham, Pictou, inviting the Board to send a committee to see his crop of prickly confrey. On motion of Mr. Longworth, seconded by Mr. Rand, Mr. Ross was requested, when on his way home to Cape Breton, to join Mr. Matheson at Pictou, and visit, with him, Mr. McDonald's confrey field, and report to the Board.

Colonel Laurie read a letter from Prof. McEachran, very favorably recommending Mr. Jakeman, a graduate of Montreal Veterinary College, who had commenced practice in Birmingham Street, Halifax.

Mr. A. Cowan, of Galt, one of the Dominion Arbitrators now in the city, attended the meeting, by invitation, and gave valuable information regarding short-horn cattle, with the view of facilitating arrangements for an importation from Ontario.

The Board then adjourned, but resumed business at half-past 2 o'clock.

Mr. Kitchin, of River John, attended the meeting, and laid before the Board correspondence in reference to pedigree of Short Horns from Prince Edward Island.

Colonel Laurie and Mr. Ross reported the results of their interview with members of the Government in relation to Cape Breton Exhibition. The Government had remitted the matter to the Board, and had full confidence in their judgment; and, finding that so much interest had been aroused in Cape Breton, they felt that a liberal interpretation should be placed upon the report of the Committee of the House, recommending the appropriation, whilst the Board would no doubt see that the Exhibition was conducted throughout with due regard to economy

Moved by Hon. H. F. McDougall:—

"Whereas, The Legislature in recommending a grant towards an Exhibition in the Island of Cape Breton imposed the condition that a similar sum should be subscribed by the Exhibition Committee, to entitle the Island to the full amount of \$1,500.

Whereas, Although the offer made, and the inducements held out by the Baddeck Committee, are of a reasonable nature, and fully in accordance with the means at their disposal, yet the Board is of opinion, and, after fully considering the inducements offered and advantages to be gained;

Resolved, That the agricultural and other interests connected with the proposed Exhibition would be best subserved by holding the Exhibition at North Sydney, in view of the liberal offer held out by that locality, together with other superior advantages in regard to arrangements for transit and exhibits, buildings and accommodation for visitors."

The motion was not seconded.

Mr. Longworth moved:—

"Whereas, Two localities in Cape Breton have made application for the Exhibition, and have both presented liberal offers, and whereas a majority of delegates of societies have decided in favour of Baddeck, the Board, whilst regretting that it is not in their power to satisfy the wishes of both localities, think it right to locate this first Island Exhibition at Baddeck, and accordingly resolve to accept the offer contained in Mr. W. F. McCurdy's telegram of 19th June of \$1,000 for prize list in addition to Government grant—the total prize list to be not less than \$2,500."

Mr. Ross seconded the motion, which was put to the meeting and passed, Hon. Mr. McDougall dissenting.

Moved by Mr. Longworth, seconded by Mr. Rand, and passed:—

"That the Hon. H. F. McDougall, Mr. Ross and Mr. Matheson be a Committee to act on behalf of the Board to supervise the conduct of the Cape Breton Exhibition and arrangements connected therewith."

On motion of Mr. Longworth, seconded by Mr. Ross, the Executive Committee of the Board were authorized to make arrangements for the importation of short horn cattle, in accordance with the recommendation of the Agricultural Committee of the House of Assembly.

SPEAKER'S ROOM, 23rd June, 1880.

Present—Colonel Laurie, President; Hon. H. F. McDougall, Messrs. D. Matheson, John Ross, Jonathan Rand, and Professor Lawson, Secretary.

On motion of Mr. Matheson, seconded by Hon. Mr. McDougall, Colonel Laurie's name was added to the Board's Committee on Cape Breton Exhibition.

The Draft Prize List received from the Cape Breton Committee was referred to the Board's Committee.

Moved by Mr. Matheson, seconded by Mr. Ross, and

"Resolved, That applications for registration of thoroughbred cattle must be given in to the Secretary of the Board at least fourteen days prior to the meeting of the Board at which they are to be considered."

Moved by Mr. Rand that the pedigree of Short Horn Bull, Duke of Brunswick, be accepted and placed on the new Register. The motion was not seconded.

Moved by Mr. Matheson, seconded by Mr. Ross:

"That the Secretary be directed to take immediate steps to obtain accurate information respecting the Short Horn Bull Duke of Brunswick, so that his pedigree may, if possible, be completed and verified, and should the results of enquiry prove satisfactory, the Secretary be authorized to record the bull in the New Register accordingly."

The motion was put to the meeting and passed.

The pedigree of the Short Horn Bull Young Weatherby was authorized to be registered in the New Register, with a star.

Mr. Ross and the Secretary were requested to continue the examination of applications for registration, and to refer all cases of which they had any doubt to the Executive Committee or the full Board.

SOLUBLE AND INSOLUBLE PHOSPHATES.

BY PROFESSOR BALDWIN.

Have our scientific agricultural authorities been misleading us for forty years? Was Liebig mistaken when he suggested that bones should be dissolved in sulphuric acid? Has Lawes been wasting energy, intelligence and capital in the manufacture of superphosphate of lime?

There are five millions sterling invested in these islands in the manufacture of artificial manures. The leading feature of the trade is the conversion of insoluble into soluble phosphate of lime by the use of sulphuric acid. Is all this capital misapplied? Are the able, respectable men engaged in the trade pursuing a business which is based on unsound principles? Are they, by their ignorance, imposing a heavy tax on the landed interests by selling, at a high price, soluble phosphate of lime which is not as judicious an investment as the insoluble or raw phosphate from which it is made? All these questions have been suggested by reports made by the Aberdeenshire Agricultural Association. That body has been in existence for four years. Among the active members of it are several public-spirited men, who have promoted it in the public interest. The chemist to the Association is Mr. Thomas Jamieson, F. C. S. He has made experiments at stations placed at his disposal by members of the Association, and he has published several reports. According to my reading of the earlier reports, Mr. Jamieson would answer all the questions I have put above in the affirmative.

At first, agricultural chemists, well informed farmers, put aside Mr. Jamieson's

reports; but, after a time, farmers here and there began to ask questions concerning those Aberdeenshire experiments. Chemists had to answer those questions at agricultural meetings. And at last we have a paper on the subject from the pen of Dr. Voelcker, F. R. S., consulting chemist to the Royal Agricultural Society of England. In this paper Dr. Voelcker has directed attention to the results of published experiments which are "diametrically opposed to those of Mr. Jamieson, and which conclusively prove the economy and beneficial effects of dissolved phosphatic manures in comparison with the raw material from which they are manufactured."

The result of six experiments brought forward by Dr. Voelcker was published by Mr. Lawes as far back as '44. Three cwt. ground apatite (a mineral phosphate) gave per acre 3 tons 1 cwt. turnips. Three cwt. of superphosphate, made by dissolving two cwt. of apatite in acid, gave 6 tons 15 cwt. 3 qrs. of turnips per acre.

These figures carry conviction to most people who know Mr. Lawes personally or by reputation. Many other experimenters got equally convincing results in favour of dissolved phosphates.

The publication of Dr. Voelcker's paper in the last number of the Journal of the Royal Agricultural Society of England has called forth from Mr. Jamieson what purports to be a reply, and it has appeared in all the weekly agricultural journals. The reply does not throw any new light on the subject. It is written in a fair spirit, and in that spirit I shall briefly refer to it.

The reply gives summaries of the results of the Aberdeenshire experiments. In one of these summaries we are told that on the Marquis of Huntley's estate in Aboyne the following results were arrived at:—

	Yield per acre.	
	No phosphate.	Coprolites.
1876.....	5 tons.	19
1878.....	5 "	14
Average.....	5	16½

In the interests of Irish farmers and of agricultural science, I ask Mr. Jamieson if he believes that these figures can be relied upon for our guidance in the purchase of artificial manures for turnips anywhere.

Does not Mr. Jamieson, in his reports, which I admire for the fulness of details, give us information which shews that many of the results he has summarised are not to be relied upon?

Pending Mr. Jamieson's reply, I tell Irish farmers that they will be grievously disappointed if they expect any such results from undissolved coprolites as

these figures would lead them to expect. I repeat here the results of an experiment of my own made not long since:—

	Tons.	Cwt.	
On land which received no manure the yield was.....	10	4	of turnips per acre.
Ground coprolites gave.....	11	16	" "
Sup'phosphate from same.....	13	7	" "

I have applied ground and dissolved coprolites to all crops. Several years have elapsed since I published the results of some of these experiments, which shewed that finely ground coprolites have a positive manurial value; but not such a high one as would justify me in recommending them in preference to well-made superphosphate of lime.

In his paper in the Royal Agricultural Society's Journal, Dr. Voelcker refers to a previous report, in which he gave experimental evidence of the varying degree of solubility of phosphate of lime in various substances, and admits that no phosphate of lime—not even the hardest and most crystalline variety—is absolutely insoluble in water, especially when the water is charged more or less with carbonic acid.

Mr. Jamieson quotes a passage from another paper of Dr. Voelcker's, in which he stated that "coprolites, apatite, rock guano and other varieties of mineral phosphates scarcely produce a visible effect, even when they are applied in a finely powdered condition and in large quantities."

We have here two statements made by Dr. Voelcker which are apparently inconsistent. But he must have always known that the so-called insoluble phosphate of lime of coprolites and other bodies is not absolutely insoluble. He knew also that insoluble phosphate of lime is not as efficacious a manure or so judicious an investment as superphosphate. He has been enforcing this truth sometimes in words which has led me to think that he under-estimates the extent to which insoluble phosphates may, under certain circumstances, become active in the soil. Any man who writes much on this subject, or any kindred subject which is capable of being elucidated by experimental research, must appear occasionally inconsistent.

In Mr. Jamieson's reports I see evidence of this view. In his report, dated March, 1877, he states that "the most economical phosphatic manure for turnips is probably insoluble phosphate of lime, from any source, ground down to an impalpable powder."

Subsequent experience has induced him to modify this opinion. I do not say that he has been inconsistent: all that fair criticism justifies me in saying is that the statement was premature.—From the Farmers' Gazette, Dublin.

NEW REGISTER OF THOROUGH-BRED CATTLE.

(Sanctioned by, and published under authority of, the Central Board of Agriculture of Nova Scotia.)

SHORT HORN DURHAM BULLS.

58.—SNOWBALL.

White. Calved March 13th, 1878. Bred and owned by J. B. Fraser, Shubenacadie. Sire Captain Cawood 19. Dam Cambridge Witch 11, by Royal Cambridge 25009 Eng. G. d. Oxford Witch by Imperial Oxford 28084 Eng. G. g. d. Lancashire Witch by John O'Gaunt 16322 Eng.,—Lady Warden by Lord Warden 7617 Eng.,—Belinda 2nd by Lion 9199 Eng.,—Belinda by Babel 6882 Eng.,—Miss Foote by Coxcomb 928 Eng.,—Miss O'Neil by Minor 441 Eng.,—by Son of Phenomenon 491 Eng.,—by Traveller 655 Eng.,—by Colonel 152 Eng.,—by R. Colling's Son of Broken Horn 95 Eng.,—by Son of Hubback 319 Eng.

59.—AGAMEMNON.

Red and a little white. Calved June 18th, 1880. Bred and owned by J. B. Fraser, Shubenacadie. Sire Lord Windsor 25. Dam Eliza Stewart 36, by Titan 35805 Eng. G. d. Elizabeth McTurk 21663 Eng. G. g. d. Edith by Pride 10631 Eng.,—Brilliant 3rd by Baron Ravensworth 7811 Eng.,—Brilliant by Sir Thomas 5194 Eng.,—by Noble Henry 2374 Eng.,—by Abraham 2905 Eng.,—by Mustachous 4527 Eng.,—by Simon 5134 Eng.,—by Young George 3885 Eng.,—by George 276 Eng.

60.—EARL OF DUFFERIN.

Roan. Calved July 5th, 1878. Bred and owned by J. B. Fraser, Shubenacadie. Sire Colchester King 29. Dam Colchester Queen 39 by Baron Oxford 6th — Eng. G. d. Lady Mary 12 by Grand Duke of Clarence 28750 Eng. G. g. d. Lovely by Wild Boy 23219 Eng.,—Lovely by Sir James 16980 Eng.,—Loyalty by The Corsair 15373 Eng.,—Lucy Locket by Usurer 9763 Eng.,—Lavender by Dan O'Connell 3557 Eng.,—Lily by Brutus 1752 Eng.,—Violet by Frederick 1060 Eng.,—Vestris by Cato 1794 Eng.,—Verbena by Son of Wellington 679 Eng.,—bred by Mr. Robertson of Ladykirk.

61.—BRIGHAM YOUNG.

Roan. Calved April 7th, 1880. Bred and owned by Thomas B. Jacques, Church St., Cornwallis. Sire Colchester King 29. Dam Nellie 42 by Lord York 39, 26766 Eng. G. d. Peerless by Joe 371 Ca. G. g. d. White Lily by Wentworth 800 Ca.,—Snowdrop by Wellington 792 Ca., 183 Am.,—White Rose by Mayduke 452 Ca., 102 Am.,—Young Lily by Young Farmer 243 Ca., 62 Am.,—Lily by Warden 1563 Eng.,—Beauty by Rockingham 560 Eng.,—by Sir Harry 1444 Eng.,—by Colonel 152 Eng.,—by a Son of Hubback 319 Eng.

SHORT HORN DURHAM COWS & HEIFERS.

36.—ELIZA STEWART.

Red. Calved 5th March, 1877. Bred by John Gordon, Culraven, Scotland. Imported by Central Board of Agriculture of Nova Scotia, 1878, and sold to J. B. Fraser, Shubenacadie. Sire Titan 35805 Eng. Dam Eliza by McTurk 21662 Eng. G. d. Edith by Pride 10631 G. g. d. Brilliant 3rd by Baron Ravensworth 7811 Eng.,—Brilliant by Sir Thomas 5194 Eng.,—by Noble Henry 2374 Eng.,—by Abraham 2905 Eng.,—by Mustachous 4527 Eng.,—by Simon 5134 Eng.,—by Young George 3885 Eng.,—by George 276 Eng.

37.—DAISY.

White. Calved March 22nd, 1879. Bred and owned by J. B. Fraser, Shubenacadie. Sire Captain Cawood 19. Dam Daisy Dean 7 by His Royal Highness 555 Ca. G. d. Daisy 2nd by Emperor 1368 Ca. G. g. d. Daisy by Red Prince 602 Ca.,—Lucy by Gulph 332 Ca.,—Snowdrop by Sir Isaac 679 Ca.

38.—ROSE.

Red and a little white. Calved April 24th, 1875. Bred and owned by J. B. Fraser, Shubenacadie. Sire Captain Cawood 19. Dam Rose Gwynne 4th 8, by Duke of Northumberland 21584 Eng. G. d. Rose Gwynne 2nd by General Jackson 2nd 17954 Eng. G. g. d. Rose Gwynne by General Jackson 14604 Eng.,—Rosebud by Mungo 4359 Eng.,—Cowslip by Wallace 6585 Eng.,—by Tom Gwynne 6498 Eng.,—by Marmion 406 Eng.

39.—COLCHESTER QUEEN.

Roan. Calved February 27th, 1877. Bred and owned by J. B. Fraser, Shubenacadie. Sire Baron Oxford 6th — Eng. Dam Cambridge Witch 11, by Royal Cambridge 25009 Eng. G. d. Oxford Witch by Imperial Oxford 18084 Eng. G. g. d. Lancashire Witch by John O'Gaunt 16322 Eng.,—Lady Warden by Lord Warden 7617 Eng.,—Belinda 2nd by Lion 9299 Eng.,—Belinda by Rebel 4882 Eng.,—Miss Foote by Coxcomb 928 Eng.,—Miss O'Neil by Minor 441 Eng.,—by Son of Phenomenon 491 Eng.,—by Traveller 655 Eng.,—by Colonel 152 Eng.,—by R. Colling's Son of Broken Horn 95 Eng.,—by Son of Hubback 319 Eng.

40.—EVANGELINE.

Red with white spot in face. Calved March 20th, 1872. Bred and owned by J. B. Bowser, Grand Pre, King's Co., N. S. Sire Roland 654 Ca. Dam Brunswick Belle by Brunswick 831 Ca. G. d. Peerless by Joe 371 Ca. G. g. d. White Lily by Wentworth 800 Ca.,—Snowdrop by Wellington 792 Ca., 183 Am., &c., as under 41.

41.—PEERLESS.

Red roan. Calved August 20th, 1863. Bred by Thomas Douglas, East Flamborough Co. Wentworth, Ont. Owned by Joseph B. Bowser, Grand Pre, N. S. Sire Joe 371 Ca. Dam White Lily by Wentworth 800 Ca. G. d. Snowdrop by Wellington 792 Ca., 183 Am. G. g. d. White Rose by Mayduke 452 Ca., 102 Am.,—Young Lily by Young Farmer 243 Ca., 62 Am.,—Lily by Warden 1563 Eng.,—Beauty by Rockingham 560 Eng.,—by Sir Harry 1444 Eng.,—by Colonel 152 Eng.,—by a son of Hubback 319 Eng.

42.—NELLIE.

Roan. Calved May 26th, 1874. Bred by Edwin Chase, Cornwallis. Owned by Thomas B. Jacques, Church Street, Cornwallis. Sire Lord York 39. Dam Peerless by Joe 371 Ca. G. d. White Lily by Wentworth 800 Ca. G. g. d. Snowdrop by Wellington 792 Ca., 183 Am.,—White Rose by Mayduke 452 Ca., 102 Am.,—Young Lily by Young Farmer 243 Ca., 62 Am.,—Lily by Warden 1563 Eng.,—Beauty by Rockingham, 560 Eng.,—by Sir Harry 1444 Eng.,—by Colonel 152 Eng.,—by a son of Hubback 319 Eng.

43.—SNOWFLAKE.

White. Calved August 14th, 1877. Bred and owned by Thomas B. Jacques, Church St., Cornwallis. Sire Weatherby Star 22. Dam Nellie 42 by Lord York 39. G. d. Peerless by Joe 371 Ca. G. g. d. White Lily by Wentworth 800 Ca.,—Snowdrop by Wellington 792 Ca., 183 Am.,—Young Lily by Young Farmer 243 Ca., 62 Am.,—Lily by Warden 1563 Eng.,—Beauty by Rockingham 560 Eng.,—by Sir Harry 1444 Eng.,—by Colonel 152 Eng.,—by a son of Hubback 319 Eng.

44.—NELLY GRAY.

Roan. Calved December 3rd, 1875. Bred and owned by J. W. Margeson, Cornwallis. Sire Sir Roger Tichborne 45. Dam Evangeline 40, by Roland 654 Ca. G. d. Brunswick Belle by Brunswick 831 Ca. G. g. d. Peerless by Joe 371 Ca.,—White Lily by Wentworth 800 Ca.,—Snowdrop by Wellington 792 Ca., 183 Am., &c., as in 41.

45.—PRINCESS LOUISE.

Red with a little white. Calved December 4th, 1878. Bred and owned by Thomas B. Jacques, Church St., Cornwallis, King's Co., N. S. Sire Colchester King 29. Dam Nellie 42 by Lord York 39, 26766 Eng. G. d. Peerless 41, by Joe 381 Ca. G. g. d. White Lily by Wentworth 800 Ca.,—Snowdrop by Wellington 792 Ca., 183 Am.,—White Rose by Mayduke 452 Ca., 102 Am.,—Young Lily by Young Farmer 242 Ca., 62 Am.,—Lily by Warden 1563 Eng.,—Beauty by Rockingham 560 Eng.,—by Sir Harry 1444 Eng.,—by Colonel 152 Eng.,—by a son of Hubback 319 Eng.

46.—ISABELLA.

Ross. Calved July 20th, 1879. Bred and owned by J. B. Fraser, Shubenacadie. Sire Captain Cawood 19. Dam Eliza Stewart 36, by Titan 35805 Eng. G. d. Elizabeth McTurk 21663 Eng. G. g. d. Edith by Pride 10631 Eng.—Brilliant 3rd by Baron Ravensworth 7811 Eng.—Brilliant by Sir Thomas 5194 Eng.—by Noble Henry 2374 Eng.—by Abraham 2905 Eng.—by Mustachous 4527 Eng.—by Simon 5134 Eng.—by Young George 3835 Eng.—by George 276 Eng.

47.—ROSE GWYNNE.

Red and a little white. Calved March 8th, 1880. Bred and owned by J. B. Fraser, Shubenacadie. Sire Lord Windsor 25. Dam Rose Gwynne 4th 8, by Duke of Northumberland 21584 Eng. G. d. Rose Gwynne 2nd by General Jackson 2nd 17954 Eng. G. g. d. Rose Gwynne by General Jackson 14604 Eng.—Rosebud by Mungo 4359 Eng.—Cowslip by Wallace 5585 Eng.—by Tom Gwynne 5498 Eng.—by Marmion 406 Eng.—bred by Mr. Matthews of Durham.

48.—MAY ROSE.

Red and white. Calved May 5th, 1878. Bred and owned by J. B. Fraser, Shubenacadie. Sire Cawood 19. Dam Rose Gwynne 4th 8, by Duke of Northumberland 21584 Eng. G. d. Rose Gwynne 2nd by General Jackson 2nd 17954 Eng. G. g. d. Rose Gwynne by General Jackson 14604 Eng.—Rosebud by Mungo 4359 Eng.—Cowslip by Wallace 5585 Eng.—by Tom Gwynne 5498 Eng.—by Marmion 406 Eng.—bred by Mr. Matthews of Durham.

JERSEY BULLS.

15.—THE SULTAN.

Mulberry fawn, black tongue, black and white switch. Calved May 14th, 1877. Bred by Joseph Hickson, Summerhill Farm, Montreal. Owned by G. W. Boggs, Bedford, N. S. 3392 Am. Club. Sire Prince Milan 2318 Am. Club. Dam Bertha 490 Am. Club.

16.—PRINCE IMPERIAL.

Squirrel gray and white. Calved June 17th, 1879. Bred by G. W. Boggs, Bedford, N. S. Owned by A. Kirkpatrick, Shubenacadie, N. S. Sire L'Etranger 2075 Am. Club. Dam Maid of Orleans 6, by Past Tyler 4. G. d. by Bruno 3. G. g. d. by Dick Swiveller 3rd 2,—by Pioneer 1.

17.—AJAX OF LORNDALE.

Silver gray, white feet. Calved April 20th, 1879. Bred by Edward S. Blanchard, Ellershouse, Co. Hants, N. S. Owned by Israel Longworth, Lornedale, Truro, N. S. Sire Franconia 2310 Am. Club. Dam Ligna 5th 6494 Am. Club. G. d. Ligna 2237 Am. Club.

JERSEY COWS AND HEIFERS.

4.—ZABRINTA.

Fawn, star, white on thighs, legs and feet, spot on left shoulder, left tip of rump. Calved May 11th, 1880. Bred and owned by Chas. E. Brown, Yarmouth, N. S. 10216 Am. Club. Sire Darling 7, 1371 Am. Club. Dam Brantza 1, 5388 Am. Club, by Defiance 196 Am. Club. G. d. Joliette 1374 Am. Club.

5.—ORIOLE OF HILLCREST.

Solid colour, white feet and switch, spot on forehead, black tongue. Calved July 12th, 1878. Bred by D. W. Watrous, 51 Ferry St., New York, U. S., or Perth Amboy, N. J., U. S. Owned by Israel Longworth, Lornedale, Truro, N. S. Sire Clifton Granger, 2588 Am. Club. Dam Rhoda of Merion, 5849 Am. Club, by Fortunatus 1152 Am. Club. G. d. Nelly Potts, 1910 Am. Club, by Saracen 480 Am. Club. G. g. d. Janet 564 Am. Club, by Charleston Imp. 1 Am. Club,—Fairy Imp. 10 Am. Club, by bull on Isle of Jersey.

6.—MAID OF ORLEANS.

Orange fawn and white. Calved May, 1875. Bred by Chas. E. Brown, Yarmouth, N. S. Owned by G. W. Boggs, Bedford, N. S. Sire Past Tyler 4. Dam by Bruno 3. G. d. by Dick Swiveller 3rd 2. G. g. d. by Pioneer 1.

7.—MERMAID OF ST. LAMBERT.

Dark fawn, black tongue and switch. Calved April 22nd, 1879. Bred by Romeo H. Stephens, Slocum Lodge, St. Lambert, Que. Owned by G. W. Boggs, Bedford, N. S. 9771 Am. Club. Sire Stoke Pogis 3rd 2238 Am. Club. Dam Pink of St. Lambert 5486 Am. Club.

8.—COWSLIP OF ST. LAMBERT.

Dark fawn, black tongue and switch. Calved May 6th, 1878. 8349 Am. Club. Bred by Romeo H. Stephens, Slocum Lodge, St. Lambert, Que. Owned by G. W. Boggs, Bedford, N. S. Sire Stoke Pogis 3rd 2238 Am. Club. Dam Witch of St. Lambert 5479 Am. Club.

9.—SULTANA.

Solid fawn, black tongue and switch. Calved May 3rd, 1880. Bred by G. W. Boggs, Bedford, N. S., and owned by him. Sire The Sultan 15. 3392 Am. Club. Dam Maid of Orleans 6, by Past Tyler 4. G. d. by Bruno 3. G. g. d. by Dick Swiveller 3rd 2,—by Pioneer 1.

10.—LITTLE BUTTERCUP.

Calved August 4th, 1880. Bred by Romeo H. Stephens, St. Lambert, Que. Owned by G. W. Boggs, Bedford, N. S. Sire Orloff 3143 Am. Club. Dam Cowslip of St. Lambert 8, 8349 Am. Club. G. d. Witch of St. Lambert, 8349 Am. Club, by Stoke Pogis 3rd 2238 Am. Club.

AYRSHIRE BULLS.

13.—PRINCE ALBERT.

Calved 1873. Bred at the Government Stock Farm, Charlotte-town, P. E. I. Imported and owned by the River John Agricultural Society, County of Pictou, N. S. Sire Duke of Hamilton, out of imported Ayrshire cow and Ayrshire bull, both bred by His Grace the Duke of Hamilton. Dam Ayrshire cow purchased from the Duke of Hamilton's Herd in 1866 by Henry Longworth, Esq.

14.—YAKOB KHAN.

Red and white. Calved June 1st, 1879. Bred and owned by James Ritchie, River John, Co. Pictou, N. S. Sire Prince Albert 13. Dam Park 4th 14.

15.—SIR GEORGE.

White and red. Calved March 10th 1880. Bred and owned by James Kitchin, River John, Co. Pictou, N. S. Sire Prince Albert 13. Dam Park 4th 14. G. d. Park 2nd by Lawrence Drew, Mervytou, Scotland, by Mars (298), (715).

16.—YOUNG ROYALTY.

Calved March 1875. Bred by Mr. Vallance, Great Hill, Strathaven, Scotland. Imported by Halifax County Agricultural Society, 1876. Sire Emperor (1st prize Ayrshire bull at Strathaven). Dam Empress (1st prize Ayrshire cow at Wishaw, 1874).

17.—KING HUMBERT.

White and red. Calved January 16th, 1878. Bred and owned by Jam. Kitchin, River John, Co. Pictou, N. S. Sire Young Royalty 16. Dam Park 4th 14.

18.—THRIFT.

Brown and white, about-fourths brown, triangle of white on forehead, white band about girth, muzzle and switch black. Calved March 4th, 1875. Owned by Colonel W. E. Starratt, Paradise, Ann. Sire Waushakum 230 N. A. A. R. Sire's sire imp. Habbie Simpson 92 N. A. A. R. His dam imp. Model of Perfection 370 N. A. A. R. Tilly's sire, imp. Eglinton 70 N. A. A. R. His dam imp. Maggie (322).

19.—MARS.

Dark red. Calved March 27th, 1878. Bred and owned by Col. W. E. Starratt, Maple Grove, Paradise, Co. Annapolis, N. S. Sire Thrift 18. Dam Miss Strang 5 by Browncastle Lad. G. d. Betsey.

20.—LEOPOLD.

Red and white. Calved April 6th, 1880. Bred and owned by Colonel W. E. Starratt, Maple Grove, Paradise, Co. Annapolis, N. S. Sire Lord Clyde 10. Dam Dowdrop 2nd 16, 487 Ca. G. d. Dewdrop 1064 Ca., by Sir George 864 Ca.

21.—HERO.

Dark red. Calved December 5th, 1879. Bred and owned by Colonel W. E. Starratt, Maple Grove, Paradise, Co. Annapolis, N. S. Sire Lord Clyde 10. Dam imp. Miss Strang 5, by Browncastle Lad, a Scotch bull. Dam Betsey, an Ayrshire Cow in Scotland.

22.—LORD CANNING.

Red and white well mixed. Calved 20th September, 1879. Bred by Colonel W. E. Starratt, Maple Grove, Paradise, Co. Annapolis. Owned by D. H. Coffin, Kentville, King's Co. Sire imp. Lord Clyde 10. Dam Belle of Paradise 30, by Thrift 18. G. d. Dorcas 29 by Glengarry imp., out of Edina by Young Glengarry. G. g. d. Drusilla 1089 Am.

23.—PRINCE BISMARCK.

Sire Bismarck 12. Dam Merry Duchess, imp., 10, by Garibaldi. G. d. Tina, a Scotch cow.

24.—LORD CLYDE.

Brown and white. Calved May 1st, 1876. Bred by N. S. Whitney, Montreal, P. Q. Owned by C. P. Blanchard, Truro, N. S. Sire Romah 850 Ca. Dam Lady Cuthbert 6th 490 Ca.

25.—LORD RAGLAN.

Calved August, 1870. Imported from Ontario by Central Board of Agriculture in 1872, and sold to Windsor Agricultural Society. Sire Carrick Farmer. Dam Maggie the Third by Prince of Wales 17 Ca.

AYRSHIRE COWS AND HEIFERS.

14.—PARK 4TH.

Calved May 7th, 1873. Bred by J. L. Gibb, Compton, Quebec. Owned by W. J. Lewis, Gorsebrook, Co. Halifax. Sire Mars (208), (715). Dam Park 2nd (280), (1702), bred by Lawrence Drew, Merryton, Scotland.

15.—MERRY GIPSEY.

Red-and-white. Calved May 13th, 1877. Bred by A. B. Ball Lee Farm, P. Q. Owned by James Kitchin, River John, Co. Picou N. S. 1987 Ca. Sire Pride of Geneva 129 Ca. Dam Gipse 2nd 377 Ca., by Marquis, imported by J. L. Gibb, Quebec. G. d. Gipse imported by J. L. Gibb.

16.—DEWDROP 2ND.

Light red and white. Calved February 20th, 1872. Bred by N. S. Whitney, Montreal, Quebec. Owned by Colonel W. E. Starratt, Maple Grove, Paradise, Co. Annapolis, N. S. 467 Ca. Sire Sir George 864 Ca. Dam Dewdrop 1064 Ca.

17.—SADIE.

White and red, well marked. Calved March 22nd, 1877. Bred and owned by Colonel W. E. Starratt, Maple Grove, Paradise, Co. Annapolis, N. S. Sire Selwyn 622 Ca., 1448 Am. & Ca. Dam Dewdrop 2nd 16, 487 Ca., by Sir George 864 Ca. G. d. Dewdrop 1064 Ca.

18.—CROCUS 2ND.

Dark red and a little white. Calved April 25th, 1873. Bred by J. L. Gibb, Compton, Prov. Que., Canada. Sire Mars (298), 715, (bred by W. A. McLachlan, Auchintring, County of Stirling, Scotland,) by Burnside. Dam Crocus (524), bred by Alex. Vallance, Greathill, Strathaven, Scotland. G. d. Hairstock.

19.—DAISY.

Red and white, triangle in forehead. Calved June 10th, 1876. Bred and owned by Colonel W. E. Starratt, Maple Grove, Paradise, Co. Annapolis, N. S. Sire Lord Lisgar, imp. Dam Crocus 2nd 18. G. d. Crocus (524), bred by Alex. Vallance, Greathill, Strathaven, Scotland, by Mars (298), bred by W. A. McLachlan, Auchintring, Stirlingshire, Scotland. G. g. d. Hairstock.

20.—CROCUS 3RD.

Red with a few white spots about body. Calved March 18th, 1878. Bred and owned by Colonel W. E. Starratt, Maple Grove, Paradise, Co. Annapolis, N. S. Sire Thrift 18. Dam Daisy 19.

21.—BLOSSOM.

White with a few red spots about neck and body. Calved March 10th, 1878. Bred and owned by Colonel W. E. Starratt, Maple Grove, Paradise, Co. Annapolis, N. S. Sire Selwyn 622 Ca., 1448 Am. & Ca. Dam Dewdrop 2nd 16, 487 Ca.

22.—SPOT.

Red and white, well marked. Calved April 21st, 1875. Sire Selwyn 622 Ca. Dam Fanny by Avon Farmer imported. G. d. Beauty, imp. by Robert Burns. G. g. d. Lady Crawford by imp. Milton.

23.—ROSE.

Red and white. Calved December 18th, 1878. Bred and owned by Colonel W. E. Starratt, Maple Grove, Paradise, Co. Annapolis. Sire Thrift 18. Dam Spot 22, by Selwyn 622 Ca. G. d. Fanny by Avon, imp. G. g. d. Beauty, imp. by Robert Burns,—Lady Crawford by imp. Milton.

24.—BUTTERCUP.

White, with a few red spots about neck and head. Calved June 4th, 1880. Bred and owned by Colonel W. E. Starratt, Maple Grove, Paradise, Co. Annapolis, N. S. Sire Lord Clyde 10. Dam Daisy 19. G. d. Crocus 2nd 18, by Lord Lisgar imp. G. g. d. Crocus (524), bred by Alex. Vallance, Greathill, Strathaven, Scotland, by Mars (298), bred by W. A. McLachlan, Auchintring, Stirlingshire. G. g. d. Hairstock.

25.—FAWN.

Red and white well mixed. Calved 26th May, 1875. Bred by Orin Hayes, Sussex, King's Co., N. B. Owned by Colonel W. E. Starratt, Maple Grove, Paradise, Co. Annapolis, N. S. Sire Selwyn 622 Ca., 1448 Am. & Ca. Dam Dewdrop 2nd 16, 487 Ca. G. d. Dewdrop 1064 Ca., by Sir George 864 Ca.

26.—GRACE.

Red with a few white spots on sides. Calved June 16th, 1879. Bred and owned by Colonel W. E. Starratt, Paradise, Co. Annapolis. Sire Talbot 605 Ca. Dam Fawn 25, by Selwyn 622 Ca. G. d. Dewdrop 2nd 16, 487 Ca. G. g. d. Dewdrop 1064 Ca., by Sir George 864 Ca.

27.—COWSLIP.

Red and white about equal. Calved April 30, 1880. Bred and owned by Colonel W. E. Starratt, Maple Grove, Paradise, Co. Annapolis. Sire Lord Clyde 10. Dam Fawn 25. G. d. Dewdrop 2nd 16, 487 Ca. G. d. Dewdrop 1064 Ca. by Sir George 864 Ca.

28.—LILY.

Red and white about equal. Calved April 7th, 1880. Bred and owned by Colonel W. E. Starratt, Maple Grove, Paradise, Co. Annapolis, N. S. Sire Lord Clyde 10. Dam Sadie 17, by Selwyn 622 Ca., 1448 Am. G. d. Dewdrop 2nd 16, 487 Ca., by Sir George 864 Ca. G. g. d. Dewdrop, 1064.

29.—DORCAS.

Brown and white, about half each, much spotted. Calved March 27th, 1872. Bred by Messrs. Sturtevant, So. Framingham. Owned by Colonel Starratt, Paradise. Sire Glengarry imp., out of Edina by Young Glengarry. Dam Drusilla 1089 Am.

30.—BELLE OF PARADISE.

Red with white spots on shoulders and sides, star on forehead. Calved September 8th, 1877. Bred by Colonel W. E. Starratt, Maple Grove, Paradise, Annapolis. Owned by D. H. Coffin, Kentville, Kings Co., N. S. Sire Thrift 18. Dam Dorcas 29, by Glengarry imp., out of Edina by Young Glengarry. G. d. Drusilla 1089 Am.

31.—CUTHBERT LASSIE.

Red and white. Calved March 31st, 1875. Bred by N. S. Whitney, Montreal, P. Q. Owned by C. P. Blanchard, Truro, N. S. Sire Sirius 848 Ca. Dam Lady Cuthbert 6th 490 Ca.

32.—LADY BEATRICE.

Brown and white spotted. Calved October 7th, 1877. Bred and owned by C. P. Blanchard, Truro, N. S. Sire Bismarck 12. Dam Blyth imp., 11, by Kelso. G. d. Tosh, a Scotch cow.

33.—ROWENNA.

Brown and white. Calved September 21st, 1879. Bred by C. P. Blanchard, Truro, N. S. Owned by John McDonald, Middle River Pictou, N. S. Sire Prince Bismarck 23. Dam Lady Benrice 32, by Bismarck 12. G. d. Blyth im., 11, by Kelso. G. g. d. Tosh, an Ayrshire Cow in Scotland.

34.—LADY CUTHBERT.

Dark red. Calved June 20th, 1879. Bred by C. P. Blanchard, Truro, N. S. Owned by John McDonald, Middle River, Pictou, N. S. Sire Lord Clyde 1301 Ca. Dam Cuthbert Lassie 81, 1129 Ca., by Sirius 848 Ca. G. d. Lady Cuthbert 6th 400 Ca.

CORRECTIONS ON HERD REGISTER.

Short Horn Cows and Heifers.

- 26. Princess Louise of Lucyfield, calved December 2nd, 1878.
- 32. Second White Rose of Lucyfield, calved November 28th, 1879.
- 36. Princess Adelaide to be deleted as a repetition of 30 Princess Adelaide.
- 37. Princess Helena to be deleted as a repetition of 31 Princess Helena.

Ayrshire Bulls.

- 9. The Shah, owned by Brookfield Agricultural Society.

Jersey Bulls.

- 2. In Index for Brno (repeated) read Dick Swiveller 3rd.

RICHMOND AGRICULTURAL SOCIETY.

Agreeably to the Act "Of the Encouragement of Agriculture, the annual meeting of members of the Richmond Agricultural Society was held on Tuesday, December 24th.

The President being absent, Vice-President John Morrison, Esq., of St. Peter's, occupied the chair. The meeting being called for a rather late hour in the afternoon, sufficient time was not afforded to determine upon any measures for the ensuing year; but with this object in view it was decided to convene a meeting in January.

A statement of the moneys received and paid out during the year, submitted by the Secretary, being examined and found correct, the meeting proceeded to elect officers for the ensuing year, with the following result:—

President, Jas. R. L. McLean; Vice-President, Malcolm J. McNeil; Sec.-Treas., Angus J. Boyd; Directors, Edward Madden, Alexander McLean, John McKenzie, Colin Nicholson, Peter Robertson.

The officers and directors, after their election, unanimously nominated John McKeen, Esq., of Mabou, Inverness Co., for appointment to the Central Board, as the Society's representative.

The subjoined account of receipts and disbursements for the year just closing shows the financial standing of the Society.

It will be seen that its liabilities are eighty-three dollars; but as the several bills which aggregate this amount do not fall due sooner than May next, before which time according to the experience of past years, the Society can count upon the receipt of the government grant (\$82 00), in which it expects to participate, it is in a position to meet all present and future demands,—as far as the claims upon this year's income are concerned.

Our revenue this year will be only about half that of last. This is due to a resolution passed at the meeting held December 3rd, 1878, making the membership fee one dollar instead of two, as it had previously been. The object in so doing was to make the benefits of the Society more general by bringing them within the reach of everyone, inasmuch as the former high fee presented an obstacle. But it is to be regretted that the effects of the resolution were not such as were anticipated, for the return forwarded herewith shows no increase in the number of members reported last year. However as the benefits resulting from the Society become more apparent each succeeding year, people will not likely remain passive to the

advantages that are to be gained from a connection with it. Although only two and a-half years in existence several members have profited very considerably by it. Last spring yearling calves raised by the Society's bulls brought higher prices than ever cattle of the same age commanded in this locality before, and not only because they were partly thorough-bred, but because they were superior animals as well.

Two thorough-bred Devon bulls were purchased last spring.—Grand Master 2nd, a yearling, from Col. Laurie, of Oakfield, for \$60, and Lord Clyde, four years old, and previously owned by the Society, from Mr. Patrick Ryte, of River Jier, for \$75.

The Society now owns three Devon bulls, four rams, two boars and two sows, all thorough-bred and very fine animals.

The four pigs purchased from Col. Laurie in August, 1878, proved a good investment. Besides stocking the Society with a superior grade of these animals, they have paid parties well who became their owners. One of them after being killed and dressed weighed 592 lbs., yet this is not the largest of the lot. Archibald Morrison, of Sporting Mountains owns one which from appearances will exceed the above weight a good deal.

RECEIPTS.

Balance government bonus for 1878	\$95 00
Members' subscriptions	41 00
By balance	83 27
	\$219 27

DISBURSEMENTS.

Cash returned, including interest	\$58 71
Price of Grand Master 2nd, including cost of importation	67 00
Price of Lord Clyde	75 00
Secretary's salary	12 60
Sundry expenses	6 56
	\$219 27

Due by Society, \$83.27.

River Bourgeois, Dec. 24th, 1879.

ANGUS J. BOYD, Sec'y.

HALIFAX, July 6th, 1880.

Editor Journal of Agriculture:

DEAR SIR,—We notice in your last issue a communication urging the necessity of a law requiring all artificial manures to be analysed in the place where they are sold. No honest dealer will object to such a law.

Allow us to inform your correspondent that the "Ceres" Superphosphate sold by us is submitted to such an analysis, and is, we believe, the only kind of artificial manure imported that is so analysed. We give below the analysis of that sold by us this season, as made by Prof. Lawson of Dalhousie College.

Your correspondent is right in saying that this is a very important point, as without an analysis by a home authority known to be responsible, the farmer does not know what he is buying. In fact, in times past worthless articles have been sold in our Province, as many a farmer knows to his cost.

Yours truly,

JACK & BELL.

CHEMICAL LABORATORY, DAL. COL., }
Halifax, July 2nd, 1880.

Analysis of Ceres Superphosphate manufactured by the Etivan Phosphate Company, samples selected by me from the warehouse of their agents, Messrs. JACK & BELL, Halifax, June, 1880:—

Soluble Phosphoric Acid	7.26
Bone Phosphate of Lime	15.85
Precipitated Phosphoric Acid	1.79
Bone Phosphate of Lime	3.91
Insoluble Phosphoric Acid	2.05
Bone Phosphate of Lime	4.47
Potash	3.30
Ammonia	1.45

This year's importation is an improvement upon last year's, which was exceedingly good.

GEORGE LAWSON, PH.D., LL.D.,
Fellow of the Institute of Chemistry of Great Britain and Ireland.

INDEX TO NEW NOVA SCOTIA REGISTER OF THOROUGH-BRED CATTLE.

SHORT HORN DURHAM BULLS.

1 Lobo Lad,	<i>Jour. Ag.</i> (May 1880), Vol. IV, p. 30
2 Yennan,	do. do. do.
3 Sir William,	do. do. do.
4 Cato,	do. do. do.
5 Nobleman,	do. do. do.
6 Orion,	do. do. do.
7 Bell Duke Markham	do. do. do.
8 Roland,	do. do. do.
9 Duke of Cardwell,	do. do. do.
10 Sir Hallbert,	do. do. do.
11 Grand Duke Romus	do. do. do.
12 Ontario Farmer,	do. do. Vol. IV, p. 37
13 Sir William,	do. do. do.
14 Iron Lightburne 2d	do. do. do.
15 Viscount Oxford,	do. do. do.
16 Gwynne of the Forest	do. do. do.
17 Kent Gwynne,	do. do. do.
18 Skiddaw,	do. do. do.
19 Captain Cawood,	do. do. do.
20 Fifth Duke of Lorne,	do. do. do.
21 Lord of Braemar,	do. do. Vol. IV, p. 33
22 Wetherly Star,	do. do. do.
23 Kingston,	do. do. do.
24 Morison,	do. do. do.
25 Lord Windsor,	do. do. do.
26 Favorite,	do. do. do.
27 St. Nicholas of	do. do. do.
Lucyfield,	(July 1880), Vol. IV, p. 40
28 King Dodds,	do. do. do.
29 Colchester King,	do. do. do.
30 Alfonso,	do. do. do.
31 Snowstorm 2nd,	do. do. do.
32 Lucyfield Duke of	do. do. do.
Edinburgh,	do. do. do.
33 Zulu Chief,	do. do. do.
34 York,	do. do. Vol. IV, p. 50
35 Wellington,	do. do. do.
36 Gwynne of Lucyfield,	do. do. do.
37 Lord Lorne of Lucy-	do. do. do.
field,	do. do. do.
38 Prince of Lucyfield,	do. do. do.
39 Lord York,	do. do. do.
40 General Grant,	do. do. do.
41 Mara Duke,	do. do. do.
42 Duke of Greenwood,	do. do. do.
43 Oliver Twist,	do. do. do.
44 Royal George,	do. do. do.
45 Sir Roger Tichborne,	do. do. do.
46 William,	do. do. do.
47 Earl Godwin,	do. do. Vol. IV, p. 61
48 Marquis of Lorne,	do. do. do.
49 Royal Hope,	do. do. do.
50 Sovereign,	do. do. do.
51 Atholstane 8th,	do. do. do.
52 Raspberry Prince,	do. do. do.
53 Young Aberdeen,	do. do. do.
54 Vulcan,	do. do. do.
55 Councillor,	do. do. do.
56 Reformer,	do. do. do.
57 Young Weatherby,	do. do. do.
58 Snowball,	do. do. (Aug. 1880), Vol. IV, p. 60.
59 Agamemnon,	do. do. do.
60 Earl of Dufferin,	do. do. do.
61 Brigham Young,	do. do. do.

SHORT HORN COWS AND HEIFERS.

1 Beauty,	<i>Jour. Ag.</i> (July 1880), Vol. IV, p. 51
2 Cawood's Rose,	do. do. do.
3 Lady Lucy,	do. do. Vol. IV, p. 62
4 Rose,	do. do. do.
5 Maid of Oxford 4th,	do. do. do.
6 Princess Marv,	do. do. do.
7 Daisy Dean,	do. do. do.
8 Rose Gwynne 4th,	do. do. do.
9 Polly Vaughan,	do. do. do.
10 Fortune Teller,	do. do. do.
11 Cambridge Witch,	do. do. do.
12 Lady Mary,	do. do. do.
13 Nellie York,	do. do. do.
14 White Rose of Lucy-	do. do. do.
field,	do. do. do.
15 Princess Barrington,	do. do. do.
16 Lora,	do. do. Vol. IV, p. 53
17 Lady Peerless,	do. do. do.
18 Princess Dolly	do. do. do.
Gwynne of Lucyfield	do. do. do.
19 Rose of Delhi,	do. do. do.
20 Blossom,	do. do. do.
21 Molly,	do. do. do.
22 Queen Caroline,	do. do. do.
23 Lady Moore,	do. do. do.
24 Princess,	do. do. do.
25 Duchess 2nd,	do. do. do.
26 Princess Louise of	do. do. do.
Lucyfield,	do. do. do.
27 Belle of Lornedale,	do. do. do.
28 Laura,	do. do. do.
29 Pearl Blossom,	do. do. Vol. IV, p. 54
30 Princess Adelaide,	do. do. do.
31 Princess Helena,	do. do. do.
32 Second White Rose	do. do. do.
of Lucyfield,	do. do. do.
33 Highland Lassie,	do. do. do.
34 Princess of Lucyfield,	do. do. do.
35 Fair Rosamond,	do. do. do.

36 Eliza Stewart,	<i>Jour. Ag.</i> (Aug. 1880), Vol. IV, p. 60.
37 Daisy,	do. do. do.
38 Rose,	do. do. do.
39 Colchester Queen.	do. do. do.
40 Evangeline,	do. do. do.
41 Peerless,	do. do. do.
42 Nellie,	do. do. do.
43 Snowlake,	do. do. do.
44 Nolly Gray,	do. do. do.
45 Princess Louise,	do. do. do.
46 Isabella,	do. do. Vol. IV, p. 61.
47 Rose Gwynne 6th,	do. do. do.
48 May Rose,	do. do. do.

AYRSHIRE BULLS.

1 Bruce,	<i>Jour. Ag.</i> (June 1880), Vol. IV, p. 41
2 Boulevardier,	do. do. do.
3 Sir George,	do. do. do.
4 Johnny,	do. do. do.
5 Prince of Wales,	do. do. do.
6 Young Pr. of Wales,	do. do. do.
7 Reform,	do. do. do.
8 Charlie,	do. do. do.
9 The Shah,	do. do. do.
10 Lord Clyde,	do. do. do.
11 Avon Water,	do. do. do.
12 Blumarck,	do. do. do.
13 Prince Albert,	(Aug. 1880), Vol. IV, p. 61.
14 Yakob Khan,	do. do. do.
15 Sir George,	do. do. do.
16 Young Royalty,	do. do. do.
17 King Humbert,	do. do. do.
18 Thrift,	do. do. do.
19 Mars,	do. do. do.
20 Leopold,	do. do. do.
21 Hero,	do. do. Vol. IV, p. 62.
22 Lord Canning,	do. do. do.
23 Prince Blumarck,	do. do. do.
24 Lord Clyde,	do. do. do.
25 Lord Raglan,	do. do. do.

AYRSHIRE COWS AND HEIFERS.

1 Miss Cuthbert,	<i>Jour. Ag.</i> (June 1880), Vol. IV, p. 44
2 Josephine,	do. do. do.
3 Nora C. F.,	do. do. do.
4 Belle of Avondale,	do. do. do.
5 Miss Strang,	do. do. Vol. IV, p. 45
6 Daisy,	do. do. do.
7 Lilly 3rd,	do. do. do.
8 Lilly 4th,	do. do. do.
9 Lady Avon,	do. do. do.
10 Morry Duchess,	do. do. do.
11 Blyth,	do. do. do.
12 Pearl Drop,	do. do. do.
13 Cherry,	do. do. do.
14 Park 3th,	(Aug. 1880), Vol. IV, p. 62.
15 May Gipsy,	do. do. do.
16 Dewdrop 2nd,	do. do. do.
17 Saddle,	do. do. do.
18 Crucis 2nd,	do. do. do.
19 Daisy,	do. do. do.
20 Crucis 3rd,	do. do. do.
21 Blossom,	do. do. do.
22 Spot,	do. do. do.
23 Rose,	do. do. do.
24 Buttercup,	do. do. do.
25 Fawn,	do. do. do.
26 Grace,	do. do. do.
27 Cowslip,	do. do. do.
28 Lily,	do. do. do.
29 Dorcas,	do. do. do.
30 Belle of Paradise,	do. do. do.
31 Cuthbert Lassie,	do. do. do.
32 Lady Beatrice,	do. do. do.
33 Rowena,	do. do. Vol. IV, p. 63.
34 Lady Cuthbert,	do. do. do.

JERSEY BULLS.

1 Pioneer,	<i>Jour. Ag.</i> (July 1880), Vol. IV, p. 54
2 Dick Swiveller 2nd,	do. do. do.
3 Bruno,	do. do. do.
4 Past Tyler,	do. do. do.
5 Tyler,	do. do. do.
6 Yarmouth,	do. do. do.
7 Darling,	do. do. do.
8 Plantagenet,	do. do. do.
9 Prince of Lee Farm,	do. do. do.
10 Knight of Lee Farm,	do. do. Vol. IV, p. 55
11 Azahbar,	do. do. do.
12 Bartizan,	do. do. do.
13 Bon Hampton of Hill-	do. do. do.
crest,	do. do. do.
14 Billaptur,	do. do. do.
15 The Sultan,	(Aug. 1880), Vol. IV, p. 61.
16 Prince Imperial,	do. do. do.
17 Ajax of Lornedale,	do. do. do.

JERSEY COWS AND HEIFERS.

1 Brantza,	<i>Jour. Ag.</i> (July 1880), Vol. IV, p. 65
2 Nabritza,	do. do. do.
3 Golden Doublet of	do. do. do.
Hillcrest,	do. do. do.
4 Zabranta,	(Aug. 1880), Vol. IV, p. 61
5 Oriole of Hillcrest,	do. do. do.
6 Maid of Orleans,	do. do. do.
7 Mermaid of St. Lam-	do. do. do.
bert,	do. do. do.
8 Cowslip of St. Lam-	do. do. do.
bert,	do. do. do.
9 Sultana,	do. do. do.
10 Little Buttercup,	do. do. do.

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June 1

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