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Published under direction of the Board of Agriculture of Nova Scotia.

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

VOL. IV.

HALIFAX, N. S., MAY-JUNE, 1881.

No. 16.

Halifax, June 15, 1881.

The great event of the year is the Dominion Exhibition, which will be held at Halifax in September next. Committees are actively at work making all the necessary preparations, and the applications for information and entries already received show that competitors are taking time by the forelock.

We publish the Regulations for the Exhibition in extenso, on another page. If any one of our readers has not already received a Prize List and Entry Paper, he should send his address on a post earl to Mr. W. McKerron, Sec'y., Dominion Exhibition, Halifax.

We publish, in the present number, several public documents that will be read with interest by our farmers, as they involve important changes in our Agricultural organization.

One Amendment of the Agricultural Act provides that in future the Annual Grant of \$4000 for Exhibitions shall be appropriated in alternate years for (1) Provincial and (2) District Exhibitions. Thus a Provincial Exhibition will be held only once in two years. In the alternate year when there is no such Provincial Exhibition there will be district Exhibitions, one in each District into which the Province is, or may in future, be divided. The present division is as follows:

District No. 1—Halitax and Lunenburg
Counties.

Dist. No. 2-Kings, Annapolis, Queens, Dist. No. 3-Digby, Shelburne, Yurmouth. Dist. No. 4—Hants, Colchester, Cumberland.

Dist. No. 5.—Pictou, Antigonish, Guysborough.

Dist. No. 6-Cape Breton, Richmond, Inverness, Victoria.

THE Agricultural Committee of the House of Assembly have recommended that the grant to Societies, instead of being diminished, he increased to \$3500, and that the working expenses of the Board be lessened by \$300; that information be obtained during recess with a view to re-adjustment of Agricultural Districts for the purpose of holding District Exhibitions; that the Prize Lists of Provincial Exhibitions be, in future, published not later than the month of February; that a fee of firty cents be charged for each entry in the Herd Registry and twenty-five cents for each transfer; that a special grant of \$100 be given to Queens County; and that a bonus of 10 per cent on first cost be paid, under certain conditions, for the importation and keep of a Horse or Horses for breeding purposes in the Frovince.

We invite, in an especial manner, the attention of our readers to CLOVERDALE'S article on the Great Agricultural Prospect. A shrewd observer, of long experieuce in the Province, well acquainted in a thoroughly practical manner with its agricultural resources, he points out to our farmers exactly what is within their means, what they may reasonably expect to accomplish, and what results will naturally

follow the development of our grazing industry. Farming will become a good paying business, land will increase in value, money will become less exorbitant to farmers by reason of the greater security which the increased values of their farms will enable them to furnish, extensive improvements can be carried out, and the agricultural population will gradually grow into an independent, comfortable, well equipped yeomanry of comparatively rich land owners.

The increase in the consumption of Artificial Fertilizers is, to a certain-extent, a measure of the progress that a country is making in agricultural improvement. The Quebec Government, not satisfied with the personal exertions of their farmers in this direction, have bought 500 tons of "Goëmon Biphosphate," a phosphated kelp, containing (dry):

Organic matte	r	36.00
Nitrogen	· • · · · · ·	1.93
Soluble Phosp		
Insoluble		
Alkaline Salt		

This is to be divided among the Agricultural Societies, at \$26 per ton, and the price is to be retained from their annual government grants. The Council of Agriculture of Quebec have given effect to this arrangement, and have expressed to the Societies their wish that the fertilizer should be distributed to all members of societies, or as many as possible. Circulars explaining the best mode of using have been issued.

THIRD ANNUAL AGRICULTURAL, INDUSTRIAL, AND MECHANICAL EXHIBITION OF THE DOMINION OF CANADA.

TO BE HELD IN THE ROYAL EXHIBITION BUILDING AND GROUNDS (BETWEEN Tower ROAD AND ROBIE STREET) CITY OF HALIFAX, N. S., FROM 21ST TO 30TH SEPTEMBER, 1881.

Under authority of the Dominion and Nova Scotia Parliaments, and under the immediate direction of the Central Board of Agriculture of Nova Scotia, and the Corporation of the City of Halifax. Cash prizes \$15,000.00. No charge for entry of Exhibits. Office of the Committee—The Speaker's Room, Province Building, Halifax, N.S.

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HIS EXCELLENCY THE GOVERNOR GENERAL.

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No. 8. Lodyings .- Alderman George Fraser, Chairman; Ald. Hesslein. Ald. Walsh, J. M. DeWolf, Esq., Herbert Harris, Esq.

No. 9. Appointment of Judges.— Hon. J. F. Stairs, Chairman; Ald. Spelman, Ald. McLellan, W. J. Veith, Esc, C. W. Anderson, Esq., A. Downs, Esq., A. Stephen, Jr., Esq.

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No. 11. Class 5-Poultry--Andrew Downs, Esq., Chairman; Ald. Nisbet, Ald. Trenaman, C. W. Anderson, Eq., A. K. McKinlay, Esq.

No. 12. Uluss 5-Roots and Vegetables. -Alderman Walsh, Chairman; Ald. Clay, Ald. Mackintosh, John Ross, Esq., Taylor, E.q.

No. 13. Classes 7, 8, 9-Grain and Field Seeds, Grain Manufactures, Sc., Dairy Produce, Hemp, Woollen, Flax, Cotton, Straw Goods and Wearing Apparel .- W. J. Vieth, Esq., Chairman; Wm. M. Doull, Esq., Hon. J. F. Stairs, Ald. O'Connor, Ald. Connolly, Ald. Houlette.

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No. 15. Classes 11 & 12-Fruit, Ornamental Plants and Flowers. - Alderman Trenaman, Chairman; Ald. Nisbet, Peter Jack, Esq., C. E. Brown, Esq., David Matheson, Esq., Herbert Harris, Esq., R. W. Starr, Esq.

No. 16. Classes 13 to 18 inclusive— Economic Minerals, Manufactures in Wood, Carriage Manufactures, Naval Architecture, Manufactures in Metal and in Leather .- Roderick McDonald, Esq., Chairman; Ald. McPherson, Ald. Sanford, Ald. Houlette, W. S. Symonds, Esq., John M. DeWolfe, Esq., Alex. Stephen, Jr., Esq.

No. 17. Classics 19, .20 & 21-Fisheries, Furs and Preserved Meats.-Ald. Clay, Chairman; Ald. Fraser, Ald. Story, Ald. Woodill, Hon. H. F. McDougall, W. H. Harrington, Esq.

No. 18. Classes 22 to 26 inclusive-Ladies' Work, Natural History, Indian Work, Paper Manufactures, Miscellaneous -William M. Doull, Esq., Chairman; Ald. Nisbet, Ald. Clay, Ald. O'Connor, A. Downs, Esq.

PROGRAMME.

The Exhibition will open on Wednesday, the 21st day of September, and continue open until 2 P. M. on Friday, the 30th September.

The Industrial and Mechanical De partments of the Exhibition will be open to the public on Thursday, the 22nd of September, at two o'clock in the after noon, and will be on view from the open ing to the close. The show of Horses

Cuttle, Sheep, Pigs, Poultry, Agricultural and Dairy Products, Fruit and Flowers will take place during the second week, when all departments of the Exhibition will be in operation.

GENERAL RULES AND REGULATIONS.

Intending Exhibitors and Visitors are particularly requested to read carefully. and consider the following Rules and Regulations governing the Eckibition, which will be, in all cases, strictly enforced:

- 1. The Exhibition Grounds and Building will be opened on Tuesday, Septemher 20th, at sunrise, and continue open during the day till sunset, for the reception and arrangement of Exhibition Articles. Exhibitors, on arrival, will immediately report themselves at the office to the Manager, who, with the assistance of the Committees of Management, will allot appropriate pens or spaces for their exhibits. This day, none but members of the General Committee, officials, exhibitors and necessary attendants, will be admitted. (Exhibitors of bulky articles requiring to be placed on the ground, or in the building during the previous week, will be permitted to do so on special application beforehand.) See Rule 13.
- 2. Live Animals, Fruit, Flowers, and perishable articles, will be received up to Tuesday morning. 27th September, at 9 o'clock; unavoidable delays to be dealt with at the discretion of the Committee, who, however, cannot undertake to defer the work of the Judges on account of late arrivals.
- 3. The Exhibition Building will be opened to the public on Thursday, September 22nd, at 2 o'clock, p. m., and will be open each succeeding day to visitors, from 9 a. m. to 6 p. m. Admission, 25 cents each time on entering; children under twelve years of age, 10 cents. Military bands of music will be in attendance daily. The Grand Public opening will take place on Tuesday, 27th September, at 2 p. m., when all Departments of the Exhibition will be fully open. cattle yards will be closed to the public overy evening at sunset. The main building will remain open till 10 p. m.
- 4. The Judges in Manufactures, Arts, Implements, and Machinery, will meet at the Secretary's office on Thursday, 22nd September, at 9 a. m., and the Judges of Live Stock of all kinds, Fruit, on Agricultural and Dairy Produce, will the meet on Tuesday, September 27th, at 9 a. m., to obtain entry books, and proceed De to award premiums. On completing pen their work, they will personally show of their books to the Manager or Secretery, ten and will be furnished with the requisite on prize-tickets, which it will be their duty ses so place carefully, and as soon as possible,

upon the various articles, before giving up their books and report.

5. The Judges, Members of Committee, and Members of the Press, will be furnished with balges.

- 6. Exhibits may be removed from the grounds on Friday afternoon, September 30th, at 3 o'clock, immediately after closing The Treasurer will commence to premiums on the grounds at 9 o'clock, a. m., on Friday. Frizes not claimed within three months from the close of the Exhibition, will be forfeited.
- 7. Every intending competitor must transmit to the Secretary, not later than the dates mentioned below, an entry paper containing a correct list of the animals or articles which he intends to exhibit, together with certificate of pedigree in the case of thoroughbred stock, or else a reference to the registry number of any recognised Stock Register. Any competitor failing to transmit his entry paper at the proper time, will be excluded for competition. No fee is charged for the entry of animals or articles. In Class II, no animal will be accepted as thor oughbred, unless actually registered in a recognized Herd Book Register. Entry papers may be obtained on application to the Secretary of the Exhibition.
- 8. Horses, cattle, sheep, swine and ponitry must be entered on or before Monday, September 5th, and the age of each animal should be stated in years and months, at the date of Exhibition; the precise date of birth to be given when necessary.
- 9. Plants and flowers, fruit, grain, roots, vegetables, and other field and garden products, agricultural implements, manufactures of all kinds, and articles not elsewhere enumerated, may be entered up to Tuesday, September 13th, one clear week preceding the Exhibition.

10. In order to prevent unnecessary labor and loss of time, exhibitors are particularly requested to enter only such articles as they intomi to exhibit.

- 11. Exhibitors will please take notice that it is absolutely required that the entries be made at the dates above mentioned, in order to afford sufficient time to examine the entry papers, and to correspond with parties, when necessary, for the correction of errors and omissions; and no exception will be made 'n this rule, unless on payment of \$1.00 for each entry, and by special permission of the Committee.
- 12. Competitors failing to exhibit animals or articles which they have entered will forfeit a fee of 50c, for every such entry, to be deducted from their prize money, or paid by them.
- 13. Exhibitors of bulky articles requiring extensive accommodation must com-I municate with the Manager on or before | use of any other ticket.

Monday, September 5th, stating what space they will require, in order that there may be time for the Committee to make the requisite arrangements.

14. All articles for exhibition must be on the grounds on Tuesday, September 20th, after which day none will be received, except live stock, agricultural, garden, and dairy produce, fruit, flowers, and other perishable articles, which will oo received up to 9 o'clock on Tuesday morning, September 27th. All necessary erections, and bulky articles requiring to be put together on the grounds or in the buildings, must be finished, and all waste material and rubbish removed, not later than 12 o'clock, noon, on Saturday, September 17th, as no such work can be permitted during the Exhibition.

15. Exhibitors will, in every case, give the necessary personal attention to whatever they exhibit. Necessary Attendants upon live stock, and workmen actually required to attend to machinery, will be furnished with admission tickets with their names written upon them, which tickets will be good at the Echibitor's gate only, during the Exhibition, such tickets to be obtained from the Secretary, by personal application, and on Certificate from the Chairman of the Department, or the Manager, that the services of the Attendant are necessary.

16. All articles for competition shall be the production or manufacture of the exhibitor; field produce must be the growth of 1881, except where otherwise specified; and all live stock must have been owned and kept in Canada by the exhibitor not less than three months prior to the exhibition.

17. All expenses incurred for the conveyance of articles or animals to and from Halifax, placing them in the exhibition, and maintaining them while there, shall be borne by the exhibitors, who must likewise undertake all risk of loss or damage. Articles must, in every case, be delivered and unpacked, free of expense to the Committee.

- 18. In class IX., and for all miscellaneous exhibits, similar to those embraced in this class. "delivery checks" will be furnished when such articles are given in charge of exhibition officials, and no such exhibits can be removed from the building unless these " delivery checks" are presented to those in charge of the department.
- 19. Arrangements have been made with the Customs Department for the admission of articles from foreign countries for exhibition free of duty, on giving the customary bond.
- 20. The entry tickets upon animals or articles will admit the person bringing them to the groun's for exhibition, along with such animals or articles, without the Afterwards

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such persons must provide themselves with tickets.

21. When fewer than three competitors appear for any prize, and where the articles exhibited are not of superior merit, the judges shall have the discretionary power of awarding or withholding prizes, or reducing their values. No article can take two prizes, or be exhibited in two collections, unless the contrary is distinctly expressed in the prize list. In estimating the merits of live stock the judges are requested to take age into consideration, where animals of different ages are competing against each other.

22. No person shall be allowed to enter for exhibition more than one specimen (or required quantity) in any one section. This rule is not to apply to

animals.

- 23. On the entry of each animal or article, a card will be furnished the exhibitor by the Secretary, specifying the class, the section, the number of the entry, and the name of the exhibitor, which card must remain attached to the animal or article during the exhibition. If removed previous to the close of the Exhibition the prize will be forfeited.
- 24. In all cases the right is reserved to reject entirely or accept conditionally any entry or application, and under no circumstance will articles which are offensive by their odor or appearance, or which are dangerous by reason of their combustible or explosive character, be admitted; and, if any such be introduced by an exhibitor through misapprehension or otherwise, they may be removed by order of the Committee.
- 25. Manufactured articles which have been awarded prizes at Exhibitions in former years, shall not be entered in competition for the prizes named in the prize list for this year, but shall be awarded diplomas, if, in the opi..ion of the Judges, such articles are superior to any others exhibited, and are deemed worthy of the same.
- 26. During the Exhibition, all vegetable products and manufactured articles shall be under the control of the Chairmen and Sub Committees of the respective departments, and of the Exhibition Manager, and all live stock shall be taken charge of by their owners, the officials giving all practical assistance in providing the necessary accommodations and food. Hay, straw, oats, and roots will be supplied on the grounds at reasonable prices, and there will be a free supply of water.
- 27. The regular times for watering horses, cattle, &c., during the Exhibition are between surrise and 9 a.m.; between 1 and 2 o'clock; and after five o'clock, p. m.

not be allowed to lead their animals to water, or to carry water over the grounds at any other times. Forago and other necessary supplies must be taken into the sheds before 9 o'clock in the morning, or between five and six o'clock in the afternoon. Carts will be sent round every morning before 9 o'clock to remove manure, &c It is expected that all grooming and other work will be completed by 10 o'clock, a. m., and that attendants will thereafter romain with their horses and cattle, and be prepared to show them to visitors, and to give any necessary information that may be required by the Judges or the public.

28. Articles exposed for sale may have the prices affixed, and be sold by the owners, or by parties appointed by them for that purpose, but cannot be removed till the close of the Exhibition. auctioneer will be allowed to sell animals or articles on the grounds, or in the building without the written permission of the Manager or Secretary of the Exhibition Committee, and the time and place of sale specified in such permission must be strictly adhered to.

29. Articles and animals sent for competition or exhibition shall not be removed from the exhibition rooms or grounds till after the close of the Exhibition, under forfeiture of any prizes or awards that may have been made to their respective exhibitors.

- 30. Any person who shall attempt to interfere with the Judges while in the discharge of their duties, or who shall attempt to influence their decisions by his presence or remarks, or who shall afterwards, within the limits of the Exhibition grounds, use any contemptuous or abusive language in consequence of any award made, shall forfeit his right to any premiums to which he might otherwise be entitled, and be otherwise dealt with as the Committee may determine.
- 31. Any exhibitor who may feel aggrieved in consequence of any irregularity is requested simply to draw the attention of the Manager to such, without entering into any discussion apt to cause hindrance or distraction. Should be not receive what he may consider sufficient dress on the spot, he must, nevertheless, abide by the decision given; but he may, at the close of the Exhibition, bring the matter before the Committee, by written statement, with a view to full
- 32. No animal can be admitted within the enclosure that has not been previously entered in accordance with the Regulations 7 and 8, and animals of an inferior character, unworthy of a place in the Exhibition, will not be admitted under any circumstances.
- 33. Spacd will be provided for articles

subject to approval of Committee, apart from such as are mentioned in the prize list. Awards of merit will be given for such exhibits, if deemed worthy; they must be entered on the Secretary's book in the manner prescribed for those that come within the prize list.

34 Exhibitors must supply themselves with proper fastenings for safely securing the animals in their stalls. All bulls

must have nose rings.

35. No person shall be permitted, under any circumstances, to compete for prizes, as an exhibitor, in the same subclass in which he acts as a Judge, and any one so acting shall forfeit all awards tthe may be made to him at the Exhibi-

6. New and commodious erections are being provided upon the grounds for all Live Stock.

37. Favorable arrangements will be made with all the Pailroad and Steamboat Companies for the conveyance of passengers and articles to and from the Exhibition at greatly reduced rates.

38. An, exhibitor infringing any of the Rules or Regulations shall forfeit all or any of the prizes that may have been awarded to him.

NOTICE.

Ample accommodation will be provided for Members of the Press, and all necessary information will be promptly furnished. Press Representatives are requested to make themselves known to the Manager or Secretary on arrival.

Any additional information will be furnished on application, by post or otherwise, to the Secretary, Province Building, Halifax, up to the 17th September, after that date at the office in the Exhibition

Building.

Visitors may be assured of finding on the grounds everything necessary for the convenience of young and old during the entire day. An ample Restaurant and Lunch Room, managed by an experienced caterer, and under the supervision of the Committee as to prices and quality, will serve meals and refreshments from 8 a. m. till 9 p. m. daily. Hotels of the City will adhere to their regular rates, and nothing wil. 55 wanting to ensure the comfort and contribute to the pleasure of visitors.

The following circular has been issued:

DOMINION EXHIBITION, Halifax, N. S., June 6, 1880.

Sir,-I have the honor to transmit to you herewith a copy of the Prize List and Regulations of the Dominion Exhibition to be held in the City of Halifax from 21st to 30th September, 1881. May I request that you will be pleased to make known the arrangements for the Exhibitors and attendants will that may be forwarded for exhibition, Exhibition among the inhabitants of

your district, and to exert your influence in inducing as many as possible to aid in promoting its success by taking part in it as exhibitors and visitors. I trust that you will especially give your aid in the department in which you are more immediately interested.

The Dominion Exhibition is under the patronage of His Excellency the Governor-General and other distinguished personages, and will be conducted by a Committee consisting of the Mayor and members of the City Council of Halitax, the Central Board of Agriculture of Nova Scotia, and gentlemen of promi nence in the several industries. prizes to the extent of lifteen thousand dollars will be awarded for horses and other live stock, muchinery of at! kinds, manufactures, forest, mining, farm and fishing products, fruits and flowers. There is no charge for entry of exhibits, nor for space.

The Committee are determined that, on their part, and effort nor resource at their disposal shall be spared to make this Exhibition a success, creditable to the city where it is to be held, and to the agriculturists, mechanics and manufacturers of the Dominion, who are to display the results of their labors. They trust to the hearty co-operation of every class of industrial producers throughout the Dominion. Halifax, the ocean termimus of the railway system of Canada, is easily reached, both by land and water, at all seasons of the year, and arrangements are being made whereby passenger and freight rates for the Exhibition will be greatly reduced, and every facility afforded to visitors. The city presents many attractions to strangers in its magnificent harbor, tilled with shipping from all parts of the world; the Royal Dockyard and West India fleet; the Citadel and fortifications; the Public Gardens and the Park; the various manufactories; the Polo ground; the Academy of Music and Lyceum, and many other resources which will be made fully available to the entertainment of visitors during the Exhibition, - whilst the magnificent hill and lake and shore scene 7 of the Province, including the fertile land of Evangeline, is now easily accessible, being brought by rail within a few hours' ride of the city. Special attractions in the city and excursions to the surrounding country will be organized, opporturities afforded for Deep Sea Fishing by steam launches, and for Lobster Spearing by torch light on Bedford Basin. Gold Mines in full operation are within an hour's drive of the city, and Coal Mines within a few hours by rail.

Sub-Committees have been appointed for the purpose of sect ring the comfort of pay annually out of the money drawn exhibitors and visitors. The hotels and from the Provincial treasury for the purboarding houses of the city will provide poses of the chapter hereby amended, lect information bearing on the proposal

ample accommodation at usual rates. Fodder, etc., will be sold on the grounds to exhibitors of live stock at lowest contract prices. There will be abundant supplies of water for both stock and ma-Refreshment stalls will be established on the grounds, under strict rules, where meals can be obtained at all times, and, generally, everything that can be devised will be done to promote the convenience and comfort of visitors of all classes.

Intending exhibitors are invited to communicate without delay with Professor Lawson, the Manager. Prize Lists and blank Entry Papers may be obtained on application to Mr. W. McKerron, Secretary.

I have the honor to be, Your most obedient servant, STEPHEN TOBIN, Mayor of Halifax, Chairman of Committee.

AN ACT TO AMEND CHAPTER 37 REVISED STATUTES, OF THE ENCOURAGEMENT OF AGRICULTURE.

(Passed 14th April, 1881.)

Be it enacted by the Governor, Council and Assembly:

1. The Central Board of Agriculture shall be authorized to draw from the Provincial treasury every year the sum of Four Thousand Dollars for Agricultural and Industrial Exhibitions, to be held overy year alternately in the following manner, namely (1) Agricultural and Industrial Exhibitions to be held in any County in the Province selected by the Central Board, and to be called Provincial Exhibitions. (2) Agricultural and Industrial Exhibitions to be held respectively in any one of the Counties of each District into which the Province is now, or hereafter may be, divided, selected by the Central Board, and to be called District Exhibitions. The said sum of Four Thousand Dollars shall be paid by the Central Board to any Agricultural Society or responsible body as a prize tund, every alternate year as above provided, for the purpose of the Provincial Exhibition, and every other year to similar Societies or Bodies within each Agricultural District as a prize fund for District Exhibitions respectively in proportion to the number of Counties embraced in such District. Such Exhibitions shall be carried out, and all the expenses thereof borne, by such Societies or Bodies, under such Rules as the Board may from time to time prescribe, and the Prize List for such Exhibitions shall be made up under the dire :tion and subject to the approval of the Loard and of the Governor in Council.

2. The Board shall be authorized to

such sum not exceeding in all Nine Hundred dollars, as they shall deem proper, for the salary or salaries of the Secretary and Treasurer of such Board.

3. Chapter 12 of the Acts of 1875 is

hereby repealed.

4. So much of the Chapter hereby amended as is inconsistent with this Act is hereby repealed.

REPORT OF COMMITEE ON AGRICULTURE.

Your Committee beg leave to submit the following report :-

Having met with the Central Board for joint consideration and exchange of opinions, we have discussed the interests of Agriculture, present and future, and the question of the reduction of the expenses of the Board so far as consistent with the interests. We have also examined and considered the Report and Financial Statement of the Central Board. Also, the feasibility of establishing a School or Chair of Agriculture; and the relative advantages of Provincial and District Exhibitions. Also the question of continning the present grants to Societies.

As a result of our labors, we beg to make the following recommendations:-

That the salary of the Secretary of the Central Board be reduced from twelve hundred to nine hundred dotlars.

That a grant of six thousand five hundred dollars be made to Agricultural Societies, and that the recommendation of last year to reduce the grant for each County to three hundred and fifty dollars be not agreed upon.

That four thousand dollars be granted

for Exhibition purposes.

That seventeen hundred dollars be granted for the expenses of the Central Board.

We also recommend that while the Provincial Exhibitions continue under the same regulations as at present, to be held every second year, in the alternate years District Exhibitions be held in the several Districts into which the Province is divided for Agricultural purposes.

That during the recess the Government may collect, through the Board of Agriculture, such information as to the readjustment of these Districts as will enable the proposed District Exhibitions to be conducted with the greatest convenience and advantage.

That in future a fee of fifty cents be charged for each registration in the Nova Scotia Herd Book, and twenty-five cents

for each transfer.

Also, that the Prize List of the Provincial Exhibitions be in future published not later than the month of February in the year in which the Exhibition is to be

to establish an Agricultural Department recommended in the Report of the Committee last year.

And, finally, that a Bill be introduced to carry into effect the recommendations of the Committee.

Also, a special grant of \$100 to Queen's County.

All of which is respectfully submitted.
W. M. Blair, Chairman.
C. W. Shappnen,
Anges Machilivrat,
Nathaniel Spence,
L. S. Ford,
A. C. Bell,
William C. Bill,
John Morrison,
Isidore LeBlanc.

Additional report of the committee on agricultrue.

They further recommend that a bonus of 10 per cent. o the first cost be paid to any party who will import and keep in the Province of Nova Scotia, for breeding purposes, for at least tive years, a horse or horses suitable for agricultural purposes.

Said bonus to be drawn from the Stock Farm Fund by the Board of Agriculture and paid to said parties on the recommendation of a committee appointed by said Board for the purpose of examining the quality of said horses. The Board shall also require an attested account of such first cost before paying the same

The Norman Percheron horse pre-

ferred.

Angus Macgillivrat, Isidore LeBlanc, C. W. Shaffner, John Morrison, William C. Bill, W. M. Malair, Nathaniel Spence, L. S. Ford.

THE NOVA SCOTIA TILE DRAIN-AGE BILL

(Ordered to be printed and distributed during recess.)

An Act respecting Investments in Tile Drainage Delicatures.

1. This Act shall be cited as the Nova Scotia Tile Drainage Act.

2. The County Council of any County may pass Bye Laws for borrowing for the purposes hereinafter mentioned, a sum of not less than two thousand dollars, and not exceeding ten thousand dollars, and for issuing therefor debentures of the County Council in sums of one hundred dollars each, payable within twenty years from the first day of August in the year in which the money is borrowed, as is hereinafter provided, and bearing interest at the rate of five per centum per annum,

and it shall not be necessary to submit such bye laws to a vote of the electors of the County before the passing thereof. But no such bye-law shall be valid unless the same is passed at a meeting of the Conneil specially called for the purpose of considering the same, and not less than four weeks after a notice of the day appointed for such meeting has been published in some newspaper issued weekly or oftener, within the Township, or, if there is no such public newspaper, then in a public newspaper published nearest to the Township or in the County Town, which said notice shall be to the effect of Schedule D to this Act

3. The debentures issued under any such bye-law may be issued and sold from time to time, as the County Council may require money for the purpose only of lending the same for tile drainage, as

hereinafter provided.

4. Said debentures shall be drawn and made payable, as in the form Schedule E, and shall have Coupons attached, and each of such Coupons shall be for the sum of eight dollars, being as nearly as may be the sum required to meet the annual interest of the debenture and the annual sinking fund necessary for the repayment of the Debentures at the expiration of twenty years.

5. Such bye-laws may be in the form of Schedule A to this Act.

- 6. The County Council of any County proposing to borrow money under the provisions of this Act shall deposit with the Provincial Secretary of the Province, a copy of the bye-laws passed by them, with attidavit of the Warden and Clerk of the County, stating that the said bye-law had passed by the County Comcil, the date of passing the same, and that all necessary notices required by this Act had been duly given previous to the passing of said bye-law. And the Council may at any time thereafter, ask fer a loan on debentures of such sums as are required,—the advertisement asking for such loan on said debentures to be published for at least tharty days, in a newspaper published in the principal town of the County, and also in one or more newspapers published at Halifax, if no paper is published in the County,-the advertisement to be in the paper published nearest the county. The advertisement to state the actual amount required, and the number of applications for loan under the Act.
- 7. Any person being the owner in fee of land in the county, wishing to borrow money for the purpose of tile draining the said land, may make application to the County Council in the form of Schedule B to this Act.
- 8. On such application, the Council over and above all other rates upon the may issue debentures for such amount land in respect of which the money is within the sum authorised y this Act, loaned, and such rate shall be collected

and by hye-haws of the County Council, and as they may deem expedient and proper, but not exceeding the sum or sums applied for, and not exceeding seventy-live per cent. of the estimated cost of such tile drainage.

9. After any such investment shall be made, the debentures shall not be questioned, and shall be deemed to be valid to all intents and purposes.

10 The Council shall lend the money so borrowed for the purpose of tile dramage, only for the same term of twenty years, in sums of one or more hundreds of dollars (no fractional part of a hundred dollars to be formed), and to persons only who are owners as aforesaid, but no part of the money so borrowed shall be loaned to any member of the Coucnil, but any person having so borrowed any sum or sums from any Council, shall not thereby, and by reason thereof, be disqualified from being afterwards elected a member of such Council.

11. The Council shall not loan to any person borrowing money under this Act, a sum which shall require the levying of a greater annual rate for all purposes, inclusive of school rates, than three cents in the dollar upon the value of the lot or parcel of land proposed to be tile drained, in respect of which the money is borrowed, as ascertained by the last revised Assessment Rolis of the County, but, in no case shall more than the sum of one thousand dollars be loaned to one person.

12. The Council shall consider the applications in the order they are made, and shall lean the money to the persons whose applications shall have been approved of in the same order.

- 13. The Council borrowing money under this Act shall employ a competent person as Inspector of Tile Drainage, whose services and expenses shall be charged rateably upon the works carried on under his inspection, and shall be paid by the Council out of the money borrowed.
- 14. The Inspector shall, on the completion of any drainage works under his charge, report to the Council the number of rods of drain constructed on each lot or parcel of land, the cost per rod, and such other particulars as may be required by the Council, which report shall be entered in a book to be provided by the Council for that purpose, and the money shall not be advanced by the Council until such report of the due completion of the work has been so made.
- 15. The Council shall impose by bye-law (in the form of Schedule E), levy and collect for the term of twenty years, a special annual rate of eight dollars on each one hundred dollars loaned, over and above all other rates upon the land in respect of which the money is loaned, and such rate shall be collected

in the same manner as county or other special rates imposed are collected.

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16. The owner of any lot or parcel of land in respect of which money had been borrowed for tile drainage under this Act, may at any time obtain a discharge of his indebtedness under this Act, by paying the County Treasurer the amount borrowed less the annual sinking fund levied and collected, with interest thereon at the rate of five per centum per annum, and, upon such payment being made to the said Treasurer, the Warden and Treasurer of the County shall pay the amount on account of indebtedness of the County issued under this Act, and, until the same can be paid, deposit the said amount in the name of the County in the Dominion Savings' Bank at interest

17. Every County Council borrowing money under this Act shall, on or before the fifteenth day of January in each year, make a return to the Lieutenant Governor in Council, for the purpose of being laid before the Legislative Assembly, showing the amount of money expended in tile drainage, the number of rods of tile drainage constructed, the names of the persons borrowing, and the property upon which the money has been loaned, the names of the persons whose applications have been refused, the reason, in each case, of said refusal, and, during the year next preceeding the date of each return.

18. If the rate shall remain due and unpaid for one month after the same shall become due and payable, a fine of

per cent. shall be added to the same, and the said fine, together with expenses of collecting, shall be chargeable upon the property, ... bject to such rate and collected in addition to amount of said rate.

19. Upon the loan of any money by the County Council to the owner of land under the Act, a certificate shall be filed an' recorded in the Office of the Registrar of Deeds for said County, containing a description of the property on which the money is loaned; the amount loaned, terms and times of payment, showing amount annually payable, which certificate shall be signed by the Warden and Clerk of the County, and also by the person obtaining the loan, and upon such certificate being recorded the amount of such loan shall operate as and be a lien upon said land, described in said certificate, until the amount loaned shall be paid in full, when the same shall be discharged by a certificate of payment and release signed by the said Warden and Town Clerk.

20. If any Treasurer or Municipal Officer shall pay any sum out of the funds of the County contrary to the

be liable to the County for every sum so paid, as for money received by him from the County, and he shall, in addition thereto, incur a penalty of five hundred dollars, to be recovered with full costs of suit by any person who will sue for the same by action of debt or information in my of Her Majesty's Courts in this Province having jurisdiction, and in default of payment of the amount which the offender is condemned to pay within the period to be fixed by such court, such offender shall be imprisoned in the common goal of the county for the period of twelve months, unless he sooner pay the amount which he was condemned to pay, and costs.

21. Any Warden or Councillor wilfully omitting to see the foregoing provision carried into effect, shall also be personally and individually liable to the county for the full amount so in arrears and interest to be recovered with costs by the said county in any suit, as for money had or received, provided always that no assessment, levy or payment made under this section shall in anywise exonerate the persons or lands chargeable from hability to the Municipality.

22. Affidavits under this Act may be sworn before a Justice of the Peace, or before a Commissioner for taking affidavits in the Courts of this Province.

SCHEDULE "A."

(Section 5.)

FORM OF BYE-LAW.

A Bye-Law to raise the sum of dollars to aid in the construction of tile drains.

The County of the provisions of an Act of the Legislature of Nova Scotia, passed in the year of Her Majesty's Reign, chapter

, enacts as follows:—
1. That the Warden of the said County may, from time to time, subject to the provisions of this bye-law, borrow, on the credit of the Corporation of the said County, such sum of money, not exceeding in the whole dollars, as may be decided by the said

Council, and may, in manner hereinafter provided, issue debentures of the said Corporation in sums of one hundred dol lars each for the amount so borrowed, the said debentures to have coupons attached, as provided in the fourth section of the said Act.

2. That when the Council shall be of opinion that the application of any person or person who may be owners of land in the said municipality to borrow money for the purpose of constructing tile drains, should be granted in whole or in part, then the said Council may, by resolution, instruct the said Warden to issue debentures as aforesaid, and provisions hereinbefore named, he shall borrow such sum of money as does not

exceed the amount applied for, and may loan the same to the said applicant on the completion of said drainage works.

3. A special annual rate shall be imposed, levied and collected, over and above all other rates, upon the land in respect of which the said money shall be borrowed, sufficient for the payment of the interest and sinking fund, as provided in the said Act.

> Scherole "В." (Section 7.)

To the Municipal Council of the County . I, A. B., owner of (if part state what part) lot situate in in said County, hereby apply for a loan , to assist in the construction of rods of tile drains, inches, posed depth of drain proposed size of tile inches.

A. B. (Signed)

SCHEDULB "C."

(Section 4.)

\$100

Tile Drainage Debenture of the County . The Corporation of the County of hereby promiso , or order, the sum of to pay to one hundred dollars of lawful money of Canada, and interest thereon at five per cent., in twenty equal annual instalments of eight dollars each, the first of such instalments to be paid on the oye-naw No. , intituled a bye-law to mise the sum of to aid in *1 , A. D. 188 , pursuant to aid in the construction of tile drains.

A. B. (Sgd) Treasurer. Warden.

[SEAL OF CORPORATION.]

Coupon for twentieth annual instalment of Tile Drainage Debenture No. 1, issued under by-law No. 1 of the County of \$8.00, payable at , on the day of A. D. 188. C. D. Warden. Treasurer. twentieth coupon for ninetcenth ent of Tile turn No. 1, Prainage Debenturo No. 1, Issued under by Jaw No. 1, it , of the County of the County of SS.00, payable at on the day of A. D. 183.

C. D. Treasurer. Warden. Treasurer.

> SCHEDULE "D." (Section 2.)

NOTICE OF BY-LAW.

Take notice that a by-law for raising for Tile Drain ige under the sum of \$ the provisions of "The Nova Scotia Tile Drainage Act," will be taken into consideration by the Municipal Council of the County of on the , A. D. 188 , at the day of o'clock in the hour of noon, at which time and place the members of the Council are hereby required to attend for the purpose aforesaid.

Clerk.

Schedule " E." (Section 15.)

BY-LAW INPOSING A RATE.

By-law imposing a special Tile Drainage rate upon lot situate in the County of

Whereas, H. J., the owner of a lot situate in in the County of , applied under the provisions of the "Act respecting the investment of public money in debentures issued for the construction of tile drains in the County Municipalities," for a loan to be made to him for the purpose of tile draining said land: And whereas, the Municipal Council has, upon his said application, loaned the said H. J. the sum of \$1,000 (or as the case may be) to be repaid with interest by means of the rate hereinafter imposed. -Be it therefore enacted by the said Municipal Council of the said County, that an annual rate of eighty dollars per annum (or as the case may require, namely, \$8.00 per every \$100 loaned) is hereby imposed upon the said land for a period of twenty years, such rate to be levied and collected at the same time and manner as ordinary taxes are levied and collected.

For the Journal of Agriculture] THE GREAT AGRICULTURAL PROSPECT.

THE new business of exporting to Europe ne ly killed or live meat, and the assuranc we receive of its probably becoming a permanent business, is perhaps the mos important step or movement of which the farmers in the Eastern Provinces have ever enjoyed the advantage. This is not alone from the present extent of the business, which is very considerable. The business is the first export cish business in which our farm rs have had any considerable hand. It is general, and not confined to any particular part or parts of the country, like the apple or potato trade; it does not depend on barter or store pay, as has been the case to such a fatal ex ent with the trade in lumber, fish, plaster, pork or wool; or the coal trade, which has been hitherto of so little direct benefit to the farm r.

Perhaps only a few have began to count up, much less realize what a difference in our advantage t is meat trade-if there is nothing really to cause it in any way to case-will be, first to the farmers, and thence to every one else. The great want of this country has hitherfo been the lack of anything like an efficient currency, caused by the balance, of trade existing so heavily against us. It is this that has caused every industry to droop and languish that depended on cash for existence. For instance, people would and our towns cities; for the existence of

a higher rate than they could be sold at the factories, but then they got them in exchange, and on credit, whereas neither exchange nor credit will do the factory

Again, adding lawyers' charges to the amount of interest received by the money lenders, we have been paying fully twice the rates we should on all mortgaged, bonded, or hypothecated property, as the constant society of money kept up a constant distrust on both sides in any eredit bargain.

The same scarcity of money has also caused such a great quantity of pork as has been raised in the provinces. The most of the farmers persist in the belief that "nothing pays like pork." Certainly, they had to raise pork to get a little cash, or rather pay a store bill, for pork could be exported, or sold to the fishermen; but, in relative return, pork never pays in this country. The reason is, this is essentially a grazing country, and cattle can exist at large for about half of the year; but pigs have to be fed nearly altogether in their pen. Every portion of the skim milk, or butter milk that we give to the hogs would return more if fed to either cows, calves, or any growing animals, as colts, right through the summer. (One point I wish to note here-pork is not lit to eat for any human being; and a very large partion of the diseases in this country, perhaps even more than in the case of rum and tobacco, are directly attributable to pork)

We are not responsible for the antipathies of our correspondents.- Ep.]

Surely, our farmers might now take a new lease of courage, and try a fresh start towards making some money. Certainly the gentlemen who have thought it wise to undertake the purchase of animals for exportation appear to have entered into the matter on a fully liberal and substantial scale. Let us en leavor to meet their efforts as fully as we can with an adequate amount of corresponding effort. We ought to be able, with due management and industry, to double or treble our present amount of meat production in as many years; and it were well to try to do this, if by this means we can secure a continuance of the business.

Let these of our young people who contemptate leaving the country consider the matter Land will no doubt increase in value immediately, as farming is likely to become a good, paying business. Money will be more easily and cheaply got; so that it will pay to hire help in the improvement of lands,—dyking marshes, flooding intervales, draining swamps, clearing stony patches, cutting woody and brushy lots. Where we now have cross roads we must soon have villages; our present villages will soon be towns, buy out of the shops boots and clothes at all kinds of factories will no longer be cut wood and brush over a piece of land,

unpossible, and there is nothing makes money like money itself.

We may also look for an immediate rise in the price of all kinds of fodder, or anything at all that can be raised on the farm. All the back pasture lots will be wanted, and ton times as many more; because steers will be wanted for the cutthe feeders, and wethers for the butcher-No farmer need be nervous about having too much stock in the fall, and go killing his calves in the summer, because all these will be saleable any day in the year; and if any one chooses to hold on till spring, we are not likely to be cornered for feed, as we have the Intercolonial Railroad now, and millions of tons of med can be brought along if required. At the same time hay will go up, and summer grazing as well, so that we may hope soon to live and farm in this country in something the same way as they do in other parts of the world. And now wo should get into the way of raising more turnips. We shall begin to know the value of these when we come to find there is cash in them.

Much has been done the past few years in raising grain on new burnt land. There is a great profit in it. But the farmers have done only so much at it as they could do without hiring help, as the great money bugbear has caused this industry to be straitened as well as every other. For about sixteen years there have been no great fires in the woods of Nova Scotia; and woods that have grown up since the memory of man if now cut and burnt, result in many cases in a fair quantity of grain and grass. Much of this might now be done for the sake of

pasture alone.

I am tempted here, though at the risk of making this article too long, to say something about the production of manures from native sources. I shall only mention something further about the use of fire as an agent for this purpose. A small amount of fire will refine a prodigions amount of earth, and pulverize a great quantity of stones. But it is a fact not generally thought of, that the fire hould be under, an not, as generally, over the earth, rooty turf, stones, etc, to which it is applied. I have noticed that i in one part of the Province, a number of farmers have got to making heaps, and thus producing a great quantity, not of interior quality but of real good quality, excellent either for grass, grain, or turnips. The fact is, we have by analysis, in our common mixed soils, all the requisite elements of the best manures. Butthese soils are mostly formed from the olderigueous and metamorphic rocks, and though by abrasion we have a large quantity of soil in result, the elements in this soil are comparatively insoluble. Certainly, if we burn a dense quantity of dry

some small portion of the top of the soil gets burned and a few of the stones pulverized, and these, with what nabes we have from the wood, make a manure that sometimes gives a number of crops. But by making "burnt piles" we get the soil reduced wholesale and effectually. Now, to those who do not care to make any particular effort to get manure in this way, still I would offer some information in regard to burning various kinds of rocks—ordinary field stone as good as any other. All manurial substances, especially the morganic, are derived directly or indirectly from the different kinds of rocks. And this country contains all the necessary kinds. We hear a good deal about the benefits of lime and plaster; but Nova Scotia is nearly half covered, either in hed rock or houlders, with rocks that are, if anything, superior to lime or plaster "s manures, when pulverised, and appear to be much more easily burnt. And perhaps half of the farmers need not go further than the'r own fields for these rocks. If they have any old decayed tencing, brushwood, stumps, windfalls, or other description of fuel, these are a first requisite; and for the rocks,-besides lime and plaster, we shall take conglomerate, well known by its appearance, and a reddish rock of which the Cobequid mountains are mainly composed, and the different kinds of gnussoid or granitic rocks of the Province, east, west and south. We may also include some of the sandstones, and the trap of Kings and Annapolis Counties. These all, though containing more or less of combined silica and alumina, are in large part composed of the alkalies, and of course are rich in phosphate and sulphate material. I may particularly mention that the iron vein that runs full length along the south side of the Cobequid mountains is contained in or associated with a heavy band of mineral fully better than lime alone, and far more easily soluble.

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ıt ıf But time and space are limited, therefore I must close. I have but touched on a magnificent field of interest to our farmers; but hope before long to address them upon another branch of the same subject fully as interesting.

CLOVERDALE.

ST. ANDREW'S AGRICULTURAL SOCIETY.

In accordance with a resolution of the above Society, passed March 1st, 1880, notice of which appeared in the April No. of the JOURNAL, the committee thus appointed imported two thorough-bred Durham Bulls from Ontario, at a cost of about three hundred dollars. They arrived here about the 1st of May, in the condition, and were sold by public illustrate this fact.

sale, to be kept for the benefit of the Society for three years. One of them, the "Marquis of Lorne," was purchased by our worthy Vice-President, for the district of Upper South River, and the other, the "Duke of Oxford," was purchased by Mr. Chisholm of Beauty. While writing on this subject it may not be too much to say that the Agricultural Society of St. Andrew's is doing good work, and that they now own four bulls that will compare favourably with any in the Province. It is to be hoped that the people of this district will maintest an earnest desire to improve their stock by giving a hearty support to our Society. The thanks of this Society are due to Mr. Thorpe of Fergus, Ontario, who, in connection with our enterprising agent, H. McDonnell, was instrumental in securing for us the celebrated stock referred to above. -- Com.

The increased use of phosphoric acid in Nova Scotta in the various forms of bone dust, superphosphate and special fercilizers, renders it destrable that our Agriculturists should study carefully its nature, and the circumstances which increase or diminish its efficiety when applied to the soil. The following from the London Agricultural Gazette will be read with interest and profit:

Tricalcic phosphate is scarcely affected by pure cold water, and has no fixed degree of solubility in that liquid; a small part of the phosphorie acid is at first taken up by the water, the residual phosphate becoming gradually more basic and more insoluble. In water containing ammonia salts the phos-phate is more readily dissolved, 1 part being taken up by 19,612 parts of water containing 1 per cent, of chloride of ammonium. In water saturated with carbonic acid gas the phosphate is much more soluble, 1 part dissolving in about 1789 parts of the liquid. This comparative ready solubility of phosphate of lime in wat r holding carbonic acid is, however, destroyed by the presence of carbo ate of lime; in the presence of this substance the solubility fell to 1 in 45,915 parts of the liquid. These experiments being made on gelatinous, percipitated tricalcie phosphate, show the greatest degree of solubility of which this substance is capable.

As soon as we turn to prosphates sold in the market, we cease to be dealing with pure substances. The phosphates available for our use consist chiefly of phosphate of lime, but they often contain small quantities of other phosphates, and, in addition, more or less considerable quantities of substances which are not phosphates. Chemists have been apt to forget this mixed character of the natural phosphates, and to speak of them as if they had each a fixed degree of solubility; this, however, is not the case. these natural mixtures are attacked by the water and carbonic acid of a soil, the ingredients of which they are composed are dissolve at different rates of speed, the most soluble ingredient being removed first. The experiments made with boneash strikingly

A sample of commercial boneash was analysed; a portion was then treated with successive quantities of water saturated with carbonic acid, each treatment lasting several days. The first extract contained phosphoric acid equal to 1 part of tricalcie phosphate in 1947 parts of water; in the second extract the solubility bad fallon to 1 in 3110; and in the fifteenth was only 1 in 6043. The solubility even then had not quite ceased to fall. Experiments with another sample of boneash, in which the action was carried further, apparently showed that a permanent solubility of 1 in 6788 was finally reached after the more soluble matter had been removed.

It is quite evident from these results that a small part of the phosphoric acid in boneash exists in a form that is easily soluble, while the great back of the phosphate dissolves but slowly in water holding earbosic acid. The more soluble phosphate possibly exists as phosphate of magnesia, as the magnesia present was found to be chiefly removed in the earlier extracts. The principal phosphates of boneash appear from these experiments to have less than one-third the solubility shown by freshly precipitated phosphate of line.

We have unfortunately no series of determinations showing the comparative solubility of the pr. icipal natural phosphates in water saturated with carbonic acid; such work carefully done would be of considerable value. Mr. C. P. Williams foun! that finely ground South Carolina phosphate dissolved at the rate of 1 part of phosphate of hime in 6544 parts of carbonic water. With finely ground bones the solubility was 1 in 5698; and with finely ground apartice 1 in 110,840. All experiments agree in regarding crystallised apartice as the most insoluble form of phosphate of lime. The phosphates of iron and aluminium are, when basic, almost completely insoluble in carbonic water. In the absence of an accurate series of experiments it is only passible to state generally that bones, honeash, phosphate grainos, and South Carolina phosphate, probably rank among the most easily soluble of the undissolved phosphates at the farmer's disposal.

In speaking of the solubility of a phosphate it must not be forgotten that when distributed through a soil the phosphate may possibly be directly attacked by the roots of the crop, and taken up without any previous process of solution. The extent to which this may happen is probably very limited.

We will now glance briefly at the principles which should guide us it undissolved phosphates are employed as manner, reserving for another paper the discussion of the relative ments of dissolved and undissolved phosphates.

When a sparingly soluble substance is employed as a manure, it must, if it is intended to produce any marked effect, be applied—(1) in considerable quantity; (2) in very fine powder; and (3) great pams must be taken to obtain a thorough distribution of the manure throughout the soil. By proceeding in this way the manure is made to expose the greatest possible surface to the attack of the water of the soil and the roots of the crop, and the slowness of action resulting from its natural insolubility is as far as possible obviated. Mr. Ruffle has lately suggested that phosphates intended for use in an undissolved condition should be reduced to the condition of a "flour," passing through

a silk sieve of 180 threads to the inch. There can be no doubt but that this state is the one most favourable to their efficiency as manure. But es are placed at some disadvantage from the fact that they cannot easily be reduced to this fine powder. On the other hand, however, their solution in the soil is much favoured by the decomposition of the animal matter which they contain.

What soils are most suited for the application of undissolved phosphates? We have seen that the natural solvent for phosphate of lime in a soil is the carbonic acid which the air and water of a soil always contain. This carbonic acid is most abundant in soils rich in humic matter, and its quantity is greatly increased by manuring the soil with farmyard manure, or with other decomposing carbonaceous matter. We should expect therefore that dark soils, rich in hymic matter, would be those most suitable for applications of undissolved phosphates. We have seen also that carbonate of lime has a great effect in diminishing the solubility of a phosphate. We should conclude from this fact that on limestone and chalky soils undissolved phosphates would produce their smallest results.

The above conclusions are strikingly confirmed by some extensive trials of French coprolite made in France in 1857, the results of which were reported by M de Molon to the French Academy in 1858 (Comptes Rendus, vol. xlvi., p. 233.) French coprolite contains much more sand than Cambridge coprolite, and usually rather less than 50 per cent. of phosphate of lime. This coprolite was employed in fine powder, with and without animal manure. It was also used as superphosphate. The trials were conducted simultaneously in eighteen departments. More than 11,000 acres of land were treated with the coprolite manure, 2214 tons of coprolite being employed.

2214 tons of coprolite being employed.

M. de Molon sums up the results of this extensive trial as follows:—1. On clay, schistous, granitic, and siliceous soils rich in organic matter, the coprolite may be used with advantage in the state of simple powder.

2. On the same soils, if poor in organic matter, especially when they have been long under cultivation, or have recently received a dressing of lime, the coprolite powder must be mixed with animal manure.

3. On limestone soils, especially chalk, the coprolite is applied with most advantage in the state of superphosphate.

Farmers who are desirons of trying the effect of powdered phosphates on their land, cannot do better than act on the experience here described. Of all sods, pasture should be the one most suited for the use of undissolved phosphates, grass land being always far richer in humas than arable soils. A dressing of 3 cwt. of finely ground honeash per acre, or 4 cwt. of South Carolina phosphate, applied in early spring, would probably be found effective wherever the soil stood in need of phosphatic manure.

On arable soil the general value of undissolved phosphates is much more questionable, and the farmer should certainly ascertain by careful comparative trials whether finely ground phosphates will yield a paying result on his fields before employing them on any considerable scale. Making powdered phosphate into a compost with farmyard manure, or even with regetable refuse, some time before its application to the land is worth a trial. Or the powdered phosphate might be

applied as a dressing after the dung is spread on the land, and then both ploughed in together.

On chalky soils a tew trials of Redonda phosphate would be of interest. The phosphate of alumnium, of which this cheap and almost useless phosphate is composed, might possibly be partly de omposed by the carbonate of lime in the soil, and a portion of the phosphoric acid brought into a condition suitable for plant food.

In dealing with all sparingly soluble manures the amount of rainfall will have considerable influence. In a dry season such manures will be almost without effect, while in a wet season they may exert a considerable influence. The character of the soil and season having such considerable influence on the effectiveness of undess lved phosphates, we must expect to find a great amount of contradiction in the results of field experiments carried out in different places, and in different seasons; and here, at least, we are not disappointed.—R. Warington.

A LETTER of R. Lauciani of Rome, in the London Athenæum, gives an account of excavations just made of the theatre of Ostia, and, amongst other matters of great interest, a glimpse of the way in which the movement of grain was managed by the old Romans. It is found that the theatre had been rudely re-built in the fifth century, but the building materials as well as the decorative have been stolen from other monuments of the town. This last-named practice explains the magnificent results of the excavations. We have found, for instance, the walls of the corridor leading into the orchestra built with rows of marble pedestals, placed lengthwise, and joined together with iron bars. These pedestals, sixteen in all, once supported the statues of distinguished citizens in the Forum, and are inscribed with eulogiums of their merits and exploits. The importance of such records cannot be overrated. Most of the men on whem the honour of a statue had been conferred were Roman knights, and had distinguished themselves all over the Roman Empire, fulfilling important duties in the provincial administracions. One of them, Quintus Acilius Fuscus, is said to have been procurator annonæ trium Augustorum nostrorum Ostiis, the three Augusti being Severus, Caracalla, and Geta. After the murder of Geta his initials were crased from the pedestal, and the siglæ AVGGG-NNN changed into AVGGNNPC, the PC meaning procurator.

The Prefect of the Annona in Rome had representatives in every province of the empire, which sent the surplus of its harvest to the metropolis; hence we find "procuratores annona" in Southern France, in Spain, in Sicily, in Africa. It is well worth noticing, as a comment upon Lloyd's statistics of vessels reported as missing during the past year, that in ancient times grain was not shipped in

bulk. O-tia, being the seaport of Rome, and the focus of the breadstuff trade of the world, was under the supervision of a special "precurator annous Augusti," whose duties were to certify the regularity of shipments and the good condition of cargoes, to store them in the government granaries at Ostia or else to forward them to town, and so on. Most certainly he did not enjoy a sincenre. Egyptian shipments alone exceeded the yearly amount of seven hundred minion mass. Sicily, Numidia, Africa propria, Cyrenof seven hundred million litres of grain; aica, and Sardinia followed suit. The aggregate area of the port of Claudius and of the dock of Traj in amounted to 1,082,788 square metres, with four kilometres and a haif of quays! I may add that under favourable circumstances vessels sailing from Ostia could reach Alexandria in eleven days, the Straits of Gibraltar in seven, the Straits of Messina, and sometimes even the coast of Epirus, in five, the coast of Spain in four, the coast of France in three, and Africa in less than two days.

On Monte Mario the hypogacum of a temb was found, containing the beautiful inscribed pedestal of a lady who died at the age of 12 years 11 months and 7 days, Manicia Marcella, daugitter of C. Minicius Fundanus, A. D. 107. "I feel deeply sad," writes Pliny, "for the loss of the younger daughter of our Fundanus, a charming, lovely girl, worthy not only of a longer life, but almost of immortality. Although not yet fourteen years old, she showed the quietness and the gravity of a matron with the suavity and modesty of a virgin. How sweet it was to see her embracing her father, welcoming her tather's friends, loving her governess and her teachers! In the course of her sickness she confidently give herself up to the care of physicians, and tried to keep up the spirits of her elder sister and of her father by fighting courageously against the violence of the malady. Sho was already betroiled to a young gentleman of her choice; the day of the wedding had already been settled; we had already received our invitations and now, what a terrible change! cannot tell you how sadly despondent I telt when I heard Fundanus himself ordering that all the money set aside for her trousseau and jewellery should be spent in the funeral ceremonies."

THE Nova Scotia Tile Drainage Bill, introduced by Colonel W. M. Blair, M.P.P. for Colchester, is published for public information. We presume it will come up for discussion in the House next winter.

RADISTICS must be grown quickly or they will be rough, stringy, and bitter. If forced by a daily sprinkling of liquid manure they will be very brittle and tender.

NOVA SCOTIA RECISTER OF THOROUGI-BRED STOCK.

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

SHORT-HORN DURHAM BULLS.

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98.—GLENSMAN.

Roan. Calved 19th May, 1870. Stock Farm, Charlottetown, P. E. I. Sire Booth Kinsman 25658. Dam Rose Wreath by Wind-Silkey Laddie 10947,—Danisal by Baron 7813, g gr d Garland by Silkey Laddie 10947,—Danisal by Ronge 5012,—Strawberry by Shipton 2620,—Danisel by Danby 3550,—by Son of Gladly Grange 1483, -by Son of Dake 225,—by Mulus 4470,—by Nader 4828, by Ambro 746.

99.—YEO'S BULL.

Red, white star on forehead. Calved May 12th, 1873. Bred at Government Stock Farm, Falconwood, P. E. I. Bought by Hon. J. C. Pope, at stock sale, Holland Grove, October, 1873; re-purchased by Stock Farm Commissioner at public auction in 1875; sold at public auction in Prince County to Hon. John Yeo. Sire Gleisman 98 (imp) Dam Rose Gwynne (imp) by Prince Gwynne 20547, grd Rosette by Prince of Prusta 16752, g grd Red Rose by Horatio 10335, —Maria by 3rd Dake of Northumberland 3647,—Modesty by Velocipede 5552,—Crocus by Sir Thomas 2636,—by Marske 418,—Laurestina by Comet 155,—Laura by Son 652,—Cleasby Lady by Favourite 1033,—Lucinda by Button Bull 322,—Lucy by Barring-

100.-GLENSMAN 2nd.

Bred by Hon. J. C. Pope. Owned by Government Stock Farm, P. E. I. Sire Glensman 93. Calved December 30th, 1863. Bred P. E. I. Sire Glensman 93. Calved December 30th, 1863. Bred by Mr. John Clayder, of Lattleborough, Essex, England. Dam Rese Gwynne (mp.) Sire Prince Gwynne 20547. Dam Rosette by Prince of Prussia 16752, gr d Red Rose by Horatio 10335, g gr d Maria by 3rd Duke Northumberland 3637,—Modesty by Velocipede 5552,—Crocus by Sir Thumas 2636,—by Marske 418,—Laurastine by Comet 155,—Laura by Tom 652,—Cleasby Lady by Favourite 1033,—Lucinda by Hutton's Bull 322,—Lucy by Barringham 56.

101.—PETER GRANT.

Red and white. Calved May 27th, 1879. Bred by John W. Margeson, Cornwallis, King's Co. Owned by King's County Ag. Society. Sire Independence 84. Dam Evangeline 40 by Roland 554 Ca., gr d Brunswick Belle by Brunswick 831 Ca., g gr d Peetless by Joe 371 Ca.,—White Lally by Wentworth 800 Ca.,—Soundrop by Wellington 792 Ca., 183 Am.,—White Rose by Majduke 452 Ca., 102 Am.,—Young Lally by Young Farmer 213 Ca., 62 Am.,—Lally by Warden 1563 Eng., Beauty by R chingham 560 Eng., by Sir Harry 1444 Eng., by Colonel 152 Eng., by 2 Son of Hubback

102 -MARQUIS OF LORNE.

Red with white on the face and some white spots. Calved Jan. 11th, 1879. Bred by Thomas B. Jacques, Church Street, Cornwallis. Owned by Stephen Daniels, Upper Falmouth. Sine Colchester King 29. Dam Peerless 1st 74 by Brunswick 64 N. B., gr d Nelhe 42 by Lord York 39, g gr d Peerless by Joe 371 Ca,—White Lally by Wentworth 800 Ca.,—Snowdrop by Wellington 792 Ca., 183 Am.,—White Rose by May duke 452 Ca., 102 Am.,—Young Lally by Vents 1st 25 Ca. Young Farmer 243 Ca., 62 Am.,—Lally by Warden 1563 Eng.,—Beauty by Rockingham 560 Fug.,—by Sir Harry 1444 Eng.,—by Colonel 152 Eng.,—by a Son of Hubback 319 Eng.

103.—YOUNG COLCHESTER.

Red with white on forehead, some white on body. Calved Sept 21th, 1880. Bred and owned by Ress Chipman, Cornwallis, King's Co. Sire Colchester King 29. Dam Red Rose 67.

101.-YOUNG EBOR.

(Mark on horn I). Roan. Calved July 3rd, 1879. Bred by Mr. W. G. Garne, Broadmoor, Northleach, Gloucestershire. Imported by Central Board of Agriculture. Owned by Strait of Canso Agricultural Society. Sire Ebor 41499. Dam Lady Like by Ranger 35203, ge d Lady Day by Duke of York 23804, g gr d Village | Witch by Imperial Oxford 18084 Eng., Laucathire Witch by John

Miss by Captain Cherry 31363,-Village Girl by Sheriff 18822,-Bondull Lassee by Booth 14180,—Orphan by Lord Raglan 13246,—Maid of Aln 2nd by Crusade 7938,—Maid of Aln by Regent 2517,— Edith by Borderer 3191,—Echpse by Eclipse 1949,—by Togston 5487,—by Bolingbreke 3184,—by Son of Midas 435,—by twin brother to Ben 600.

105.-LORD RANDOLPH.

(Mark on born II). Roan. Calved October 19th, 1879. Bred by Mr. W. G. Garne, Broadmoor, Gloucestershire. Imported by Central Board of Agriculture. Owned by Antigonish Agricultural Central Board of Agriculture. Owned by Antigonish Agricultural Society. Sire Sir Robert Frogmore 40719. Dam Rammaculus by Pratical 38870, gr d Red Lass by Marksman 26814, g gr d Red Lady by Experience 23900, Red Bess by Economist 15977, Red Rose by Napier 13368,—Rosetta by Norval 9450,—Roseberry by Rob Roy 7531,—Roseblessom by Gazer 7030.

106.-LORD BRET.

(Mark on horn III). See vol. 26, p. 442, English Herd Book. Red and white roan. Calved September 13th, 1879. Bred by Mr. W. G. Garne, Broadmoor, Northleach, Gloncestershire. Imported by Central Board of Agriculture. Owned by Baddeck Agricultural Society. Sire Sir Robert Frogmore 40719. Dam Windsor Beauty by Lord Chief Justice 34507, gr d Windsor Butterfly by Royal Butterfly 20th 25007, g gr d Misdeeds by England's Glory 23889, —Peggy by British Prince 74197,—Miss Folly by Prince Alfred 13494,—Folly by Paris 7314,—Butterfly by Vauguard 5545,—Ladybird by Robin Hood 4970,—Millicent by Anticipation 750.—Folly by Emperor 1014,—by Young Windsor 660,—by Windsor 698.

107.—EARL OF SURREY.

(Mark on horn IV). Red and little white. Calved April 16th, 1879. Bred by Capt. Morr, the Manor House, Colley, Reigate. Imported by Central Board of Agriculture. Agricultural Society, Co. Annapolis. Sire Fugleman 36670. Bam Wild Eyes Gwynne by Boron Wild Eyei 19290. Baron Wild Eyes is a son of Duke of Connaught, the highest priced bell in the world—4500 guineas, gr d Rebecca Gwynne by Knight of Distington 18158, g gr d Ruth Gwynne by Exquisite 14524.—Young Dowager Gwynne by St. Thomas 10777,—Dowager Gwynne by Prime Minister 2456.—White Moll Gwynne by Wallace 5686.—Dorothy Gwynne by Marmion 406.—Daphne Gwynne by Merlin 430.—Nell Gwynne by Layton 366.—Nell Gwynne by Phenomenon 491.—Mr. R Colling's Princess by Favorite 252, &c.—See Coates's Herd Book, vol. 1, p. 445.

108.—ROWLAND 43928 English Herd Book.

(Mark on horn V). Roan. Calved September 18th, 1878. Bred by Col. R. Lloyd Lindsay, Lockinge Park, Wantage, Berkshire. Im-ported by Centrol Board of Agriculture. Owned by Onslow Agricultural Society. Sire Earl of Horton 11th 36588. Earl of Horton is a Kirklervington bull. Dam Ronda by Rob Roy 29806, gr d Rosetta by Costa 21487, g gr d Bosette by Prince of Prussia 16752, —Red Rose by Horatio 10335,—Maria by 3rd Dake of Northumber-Lard 3647,—Modesty by Velocipede 5552,—Crocus by Sir Thomas 2536,—by Marske 418.—Laurustine by Comet 155,—Laura by Tom 652,—Cleasby Lady by Favorite 1033,—Lucinda by Hutton's Bull 323, -Lucy by Barningham 56.

109.-CABUL 42882 ESGLISH HERD BOOK.

(Mark on horn VI). Roan. Calved November 14th, 1879. Bred by Col. R. Lloyd Lindsay, Lockinge Park, Wantage, Berkshire. Imported by Central Board of Agriculture. Owned by James Kuchen, River John, Co. Picton Sire Earl of Horton 11th 36588. Kitchen, River John, Co. Picton Sire Earl of Horton 11th 36588. Dam Clotilda Rock by Lord Rockville 34658, gr d Clotilda by Grand Duke of Kent 2nd 28759, g gr d Chall 13th by Second Earl of Waiton 19672.—Clarissa by Oxford Duke 78508.—Cecilia by Viceroy 13945.—Chaff by Duke of Cornwall 5947.—Challenge by Morpeth 7254.—Cleopatra by Helicon 2107.—Clarence by Henwood 2114.—Alinna by Nestor 452.—Minerva by Harold 291.—Mary by Meteor 432.—Magdalena by Comet 155.—by Cupic 177.

110.-LORD LOVAT.

Red with a few white spots. Calved January 14th, 1881. Bred and owned by J. B. Fraser, Shibenacadic. Sire Lord Windsor 25. Dam Colchester Queen 39 by Baron Oxford 6th —— Eng., gr d Cambridge Witch 11 by Royal Cambridge 25009 Eng., g gr d Oxford O'Gaunt 16322 Eng.,—Lady Warden by Lord Warden 76;7 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.

111.—GENERAL ROBERTS.

Roan. Calved February 24th, 1881. Bred and owned by J. B. Fraser, Shubenacadie. Sire Lord Windsor 25. Dam Rose Gwynne 4th 8 by Duke of Northumberland 21584 Eng., gr d Rose Gwynne 2nd by General Jackson 2nd 17954 Eng., g gr d Rose Gwynne by General Jackson 14694 Eng.,—Rosehnd by Mungo 4359 Eng.,—Cowslip by Wallace 5585 Eng.,—by Tom Gwynne 5498 Eng.,—by Marmion 406 Eng.,—bred by Mr. Matthews of Durham.

112.—ENDYMION OF LORNDALE.

Red and white, white mark on forchead. Calved February 14th, 1881. Bred and owned by Israel Longworth, Lorndale Farm, Truro. Sne King Dodds 28. Dam Maid of Oxford 4th 5 by Lord Waterloo 2nd 26755 Eng., gr d Maid of Oxford 2nd by 7th Duke of York 17754 Eng., gr d Maid of Oxford by 4th Duke of Oxford 11327 Eng.,—Fancy by Avelanche 12412 Eng.,—Caprice by Harold 10299 Eng.,—Juliet by Sol 8608 Eng.,—Kate by Leo 4208 Eng.,—Ada by Trea surer 5513 Eng.,—Lady Byron by Rupert 2580 Eng.,—Lady Noel by North Star 460 Eng.,—by Cripple 173 Eng.,—by Mirror 441 Eng.,—by Freeman 269 Eng.,—by Dandy 190 Eng.

113.—BELMONT CHIEF.

Dark red and white with star in forchead. Calved November 14th, 1879. Bred and owned by W. F. DesBarres, Guysborough. Sire St. Nicholas of Lucyfield 27. Dam Princess Lightburne 53 by Baron Lightburne 2nd 14, gr d Princess Mary 6 by Golden Duke 26266 Eng., g gr d Empress by Majestic 20264 Eng.,—Regina by Constantine 15318 Eng.,—Lucy Long by Duke of Lancaster 10929 Eng.,—Eliza by Gainford 2nd 6030 Eng.,—Princess by Wharton 2833 Eng.,—Countess by Count 1883 Eng.,—by Baronet 1686 Eng., by Young Rockingham 2549 Eng.,—by Wellington 2824 Eng.,—by Styford 103 Eng.,—by Laine Bull 358 Eng.,—by Bollingbroke 86 Eng.

114.—PRINCE IMPERIAL.

Red and white. Calved December 30th, 1878. Bred by W. G. Batters, Brancelton, Co. Brant, Ont. Owned by Minudie and Barrowsheld Agricultural Society. Sire Gladiator 5302 Ca. Dam Lady by Lord of the Valley 421 Ca. See Canada Register, vol. 5, Bulls, 1163 Ca.

115.—NOT NAMED.

Red and White. Calved January 15th, 1881. Imported in dam from England by Central Board of Agriculture. Owned by Amherst Agricultural Society, Co. Cumberland. Size Burgandy 37926 Eng. Dam Roseleaf by Rockville 2nd 37356 Eng., gr d Rose of Poughley by Baron Booth 1st 27915, g gr d Redheart Rose by Artenus Ward, 23326,—Rynd Rose by A1 15538,—Rosette by Royal 13636,—Ringlet by Lord George 9314.—Rosebud by Futhardings 8073,—Red Rose by Angustus 6751.—Red Rose by Consul 1868,—Red Rose by Second Fairfax 8050,—Old Red Rose from the stock of the late Mr. Champion.

SHORT-HORN DURHAM COWS.

81.-LADY WALSINGHAM 2ND.

Red and white. Calved July, 1874. Bred by Hon. J. C. Pope, Charlottetown, P. E. I. Owned by James Kitchin, River John, Co. Pictou. Sire Yeo's Bull 99. Dam Lady Walsingham by Lord Clarence 90, gr d Spot by Lord Walsingham's Orthodox 28th, g gr d Spangle by Guy 12980 Eng.,—Nancy by Young Pompey 13480 Eng.,—Cherry by Runtram's Bull,—Nancy by son of David 1917 Eng.,—Old Nancy,—Vesta,—Princess.

82.-LADY WALSINGHAM 3RD.

Red and white. Calved July 18th, 1879. Bred and owned by James Kitchin, River John, Co. Picton. Sire Dufferin 92. Dam Lady Walsingham 2nd 81., gr d &c., as in preceding No. 81.

83.-LADY WALSINGHAM 4TH.

Red with white spots. Calved September 8th, 1880. Bred and owned by James Kitchin, River John, Co. Picton. Sire Dufferin 92. Dam Lady Walsingham 2nd 81, gr d &c, as in No. 81.

84.—LILLY.

Red and a little white. Calved April 1st, 1871. Bred by W. W. Fawcett, Sackville, N. B. Owned by Edwin Chase, Cornwallis, King's Co. Sire Constance Duke 7753 Am. Dam Dairy Queen 49 by Oswald Cray 514 Ca., gr d Dairy Spot by Snowbid 696 Ca., 3444 Am., g gr d Queen by Dallimore 400* Am.,—Fancy by Wellington 791 Ca.,—Donna Maria by Duke 175 Ca., 440 Am.,—Nancy alias Countess by Wellington 790 Ca., 1086 Am.,—Countess 1st by a son of Counter 155 Eng.,—Princess (imp.) by Lancaster 360 Eng.,—Golden Pippan by North Star 459 Eng.,—by Favorite 252 Eng.,—by Favorite 252 Eng.,—by Broken Horn 95 Eng.,—bred by Mr. Best of Manfield.

85.—ZILLA.

Red with a little white. Calved June 21st, 1880. Bred and owned by Edwin Chase, Cornwallis. Sire Colchester King 29. Dam Lilly 84, gr d &c., as in preceding No. 84.

86.-DUCHESS OF WARWICK 3RD.

(Mark on horn I): See val. 23, p. 450, English Herd Book. Red. Calved June 30th, 1876. Bred by Mr. W. G. Garne, Broadmoor, Northleach, Gloucestershire. Imported by Central Board of Agriculture. Owned by E. Smith, Windsor. Sire Grand Duke of Geneva 2nd 31828. Dam Duchess of Warwick by Earl of Warwickshire 3rd 28524, gr d Butterfly's Duchess by Royal Butterfly 29th, 25007, gg rd Delicacy by the Draid 20748,—Destiny by Progression 18770,—Danse, by Enterprise 11443,—Blonde by Patriot 10595,—Bracelet by Son of Elevator 6969,—Blauche by No Mistake 8357,—Young Beauty by Young Consul 6893,—Old Beauty by Fairfax 1023,—Beauty by Speculation 1472.

87.-MERRY FACE.

(Mark on horn II). See vol. 25, p. 339. Roan. Calved January 28th, 1878. Bred by Mr. H. Bettridge, East Hanney, Wantage. Imported by Central Board of Agriculture. Owned by E. Sceman, Minudie, Co. Cumberland. Siré Rockville 2nd 37356. Dam Medora by Masterpiece 24561, gr d Miss Peel by Cynric 19542, g gr d Miss Ambler by Royal Oak 16660.—Miss Mutord by Bashaw 12449,—Mitford by Lord George 9314,—Manager Rise by Manager 8271,—Young Rose by Ruffler 7391,—Rise 2nd by Gazer 7030,—Old Rose by a bull of Mr. Champion's.

88.—ROSELEAF.

(Mark on horn III). See vol 25, p. 340, English Herd Book, Red and little white. Calved February 20th, 1878. Bred by Mr. II. Bettridge, East Hanney, Wantage. Imported by Central Board of Agriculture. Owned by Professor Lowson, Lucyfield, Co. Halifax. Sire Rockville 2nd 37356. Dam Rose of Poughley by Baron Booth 1st 27815, gr d Redheart Rose by Artemas Wand 23326, g gr d Rynd Rose by A 1 15548,—Rosette by Royal 13536,—Ringlet by Lord George 9314,—Rosebud by Fuzhu-lange 8073,—Red Rose by Augustus 6751,—Red Rose by Consul 1868—Red Rose by Second Fairlax 8050,—Old Red Rose from the stock of the late Mr. Champion.

89.—EVANGELINE 2ND.

Red and white. Calved December 10th, 1880. Bred by Charles F. Beckwith, Cornwallis. Owned by C. F. Enton, Cornwallis. Sire St. Nicholas of Lucyfield 27. Dam Evangeline 40 by Roland 654 Ca., gr d Brunswick Belle by Brunswick 831 Ca., g gr d Peerless by Joe 371 Ca.,—White Lily by Wentworth 800 Ca.,—Snowdrop by Wellington 792 Ca., 183 Am., &c., as under 41.

90.-MINNIE WARREN.

White and roan. Calved May 19th, 1878. Bred and owned by Thomas H. O'Blenus, Cornwallis. Sire Benedict 77. Dam by Roland 8, gr d by Lobo Lad 1, g gr d by Yeoman 2.

91.-NOT NAMED.

Red and white. Calved January 6th, 1881. Imported in darfrom England by Central Board of Agriculture. Owned by Ho-L. S. Baker, Yarmouth. Sire Burgundy 37626 Eug. Dam Menj and n 92.

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dan Her eng Face by Rockville 2nd 37356, gr d Medora by Masterpiece 14561, g gr d Mass Peel by Cynre 19512.—Miss Ambler by Royal Oak 16370.—Miss Minford by Bashaw 12449.—Mistord by Lord George 9314.—Manager Rose by Manager 9271.—Young Rose by Raffler 7391.—Rose 2nd by Gazer 7030.—Old Rose by a bull of Mr. Champion's, Blyth.

92.—NOT NAMED.

Red and white. Calved January 30th, 1881. Imported in dam from England by the Central Board of Agriculture. Owned by C. F.

Red and white. Calved January 30th, 1831. Imported in dam from England by the Central Board of Agriculture. Owned by C. F. Eaton, Cornwallis. Sire Sir Robert Frogmore 40719. Dam Duchess of Warwick 3rd by Grand Duke of Geneva 2nd 31288 Eng., gr d Duches of Warwick by Earl of Warwickshire 3rd 26524. g gr d Butterfly's Duchess by Royal Butterfly 20th 25007,—D. licacy by the Druid 20948,—Destiny by Progression 18770,—Damsel by Enterprise 11443.—Blonde by Patriot 10595,—Bracelet by Son of Elevator 6969,—Blanche by No Mistake 8357.—Young Beauty by Young Consul 6893,—Old Beauty by Fairfax 1063,—Beautiful by Speculation 1472.

AYRSHIRE BULLS.

72 .-- CHIEF WAUBANOFF.

Dark red and white. Calved December 13th, 1878. Bred and owned by George Campbell, Picton. Sire Second Laird of Le: Farm 1989 Ca. Dam Dutchy 3rd 1427 Ca. by Pride of Geneve 129 Ca., gr d Dutchy 439 Ca.,—bred by Mr. R. Hamilton, Stonehouse, Scotland,—sired by Davy, owned in Scotland,—g gr d Dandy, owned in Scotland.

73.—COLONEL FIELDMORE OF FIELDMORE FARM.

White and red, white triangle in forehead. Calved March 27th, 1881. Bred and owned by D. II. Coffin, Upper Pereaux, King's Co. Sire Talbot 3rd 54. Dam Belle of Paradise 30 by Thrift 18, gr d Dorcas 29 by Glengarry, imp., out of Edina by Young Glengarry, g gr d Drusilla 1089 Am.

74.-ZULU CHIEF.

Red with white spots. Calved May 27th, 1879. Bred and owned by James E. Hart, Guysberough. Sire Laird of Lee Farm 1227 Ca. Dam Spot of Lee Farm 2nd 1425 Ca.

75.-LORD NELSON.

Red and white. Calved June 12th, 1879. Bred by James E. Hart, Guysborough. Owned by John H. Skinner, Guysborough. Sire Second Laird of Lee Farm 1989 Ca. Dam May Day 1985 Ca.

76.-ENDYMION.

Brawn, some white. Calved September 8th, 1880. Bred by C. P. Blanchard, Truro. Owned by Hugh McMonagle, Sassex, N. B. Sire Clyde, imp., 24. Dam Blyth, imp., 11, by Kelso, in Scotland, gr d Tosh, a Scotch cow.

77.-DUKE OF SUSSEX.

Red marked with white on forehead and sides. Calved March 8th, 1877. Bred by Hugh McMonagle, Sussex, King's Co., N. B. Owned by Clements Ag. Society, Co. Annapolis. Sire Selwyn 1449 A. C. A. H. B. Dam Red Plum 1777 do., gr d Nora 672 do., g gr d Ceres 2nd 301 do.

78.—HERMIT.

Red and white. Calved July, 1880. Bred and owned by Col. C. J. Stewart. Willowside, Amherst, Co. Cumberland. Sire Scott 64. Dam Olive 94 (imp. in dam from Scotland), by the Gentleman (Fleming, Strathaven), gr d The Nun, imp. from Scotland.

79.—BEACONSFIELD.

Brown and white. Calved April 16th, 1880. Bred and owned by Rev. A. McBean, Lower Stewiacke, Co. Colchester. Sire Lord Clyde 1801 Ca. Dam Bessie 71 by Senator,—by Reform 7.

80.-ABERDEEN.

Deep red, a large white mark on the forchead, white marks on both shoulders and both flanks, a white ring around the tail. Calved March 20th, 1876. Bred by Hugh McMonagle, Sussex Corner,

King's County, N. B. Owned by Government Stock Farm of P. E. Island. Sire Selwyn 622 Ca. Dam Red Plum 1676 A. & C.

81.-WALLACE.

White and red. Calved July, 1872. Bred by Thomas Guy, Oshawa, Ontario. Imported by Central Board of Agriculture. Sire and dam imported from Scotland.

82.-WILLIAM.

White and red. Calved June 7th, 1876. Bred and owned by Henry Burrell, Yarmouth. Sire Wallace 81. Dun Lilly 3rd 7 by Lord Dufferin 83, gr d Lilly 2nd by Eclipse 137 Ca., g gr d Scotch Lassie by Prince of Wales 305 Am.—Spot by Rob Roy, imp., 135 Am.,—White Lilly by Dandee 3rd, imported by W. Simpson, Quebec.

83.—LORD DUFFERIN.

Bred by Thomas Goy, Odnawa, Oat. Imported by Central Board of Agriculture. Sire Lord Lisgar 693 Am.

81.- PRINCE CHARLIE.

Red, a little white on flanks. Calved 24th February, 1875. Bred by A. P. Ball, Stanstead, Prov. Quebec Owned by Yarmouth Co. Agricultural Society. Sire Pride of Geneva 129 Ca. Dam Dutchy 439 Ca.

85.—PRINCE LEOPOLD.

White with red spots. Calved March 25th, 1881. Bred and owned by G. W. Sanders, Hebren, Yarmouth. Sire Prince William 23. Dam Effic 3rd 112 by Lord Dufferin 83, g. d Effic 2nd 111 by by Jock 62 Ca., 413 Åm., g gr d Effic 59 Ca. by Duke bred by Mr. Cuthbert, Montreal,—Beauty by Bruce, bred by Mr. J. Dodds, Montreal,—Effic imported by Mr. Dodds.

86.-PRINCE NAPOLEON.

Dark red, well filled with small white spots. Calved August 31st, 1879. Bred and owned by G. W. Sanders, Hebron, Yarmouth. Sire Prince Charlie, imp. from Canada, 84. Dam Flora Baker 113 by Lord Dufferin 83, gr d Effic 2nd 111 by Jock 62 Ca, 413 Am., g gr d Effic 59 Ca. by Duke (Cuthbert),—Beauty by Prince (Dodds),—Effic, imported by Mr. Dodds, Montreal.

87.—CAPTAIN JINKS.

Red and withe. Calved August 23rd, 1880. Bred and owned by G. W. Sanders, Hebron, Yarmouth Sire Prince Bismarck 23. Dam Flora Baker 113, &c., as in preceding No. 86.

88.-LORD DUFFERIN 2ND.

Red and white. Calved April 20th, 1880. Bred and owned by Henry Burrell, Sr., Yarmouth. Sire Prince Bismarck 23. Dam Lilly 5th 117 by Wallace 81, gr d Lilly 2nd 116 by Eclipse 137 Am., g gr d Scotch Lassie by Prince of Wales 305 Am., Spot by Rob Roy, imp., 135 Am.,—White Lilly by Dandee 3rd,—Quebec, imported by Mr. Simpson of Quebec.

AYRSHIRE COWS.

105.-MINERVA.

White and brown. Calved September 24th, 1880. Bred and owned by C. P. Blanchard, Truro. Sire Clyde 24. Dam Queen of Ayr 65.

106.-GALAXY.

White and brown. Calved September 1st, 1880. Bred and owned by C. P. Islanchard, Truro. Sire Clyde 24. Dam Lady Beatrice 32.

107.-MOLLY.

White and red, well marked. Calved May 19th, 1877. Bred by Hugh McMonagle, Sussex, King's Co., N. B. Owned by Clements Township Agricultural Society, Co. Annapolis. Sire Selwyn 1448 A. & C. Dan Martha 2827 A. A C.

108.-THE ABBESS.

Red. Calved April, 1880. Bred and owned by Colonel C. J. Stewart, Willowside Amherst. Sire Scott 64. Dam Nun 93.

109.-LOUISE.

Brown and white. Calved November 16th, 1880. Bred and owned by Rev. A. McBean, Lower Stewiacke. Sire Lord Clyde 1301 Ca. Dam Torta by Miemae 26, gr d Miss Cuthbert.

110.-MAPLE LEAF.

White with red spots, Calved March, 1880. Bred and owned by James Kitchen, River John, Picton Co. Sire Aberdeen 80. Dam Island Lass 45.

111.—EFFIE 2ND.

Red and white. Calved June, 1868. Bred by Thomas Guy, Oshawa, Ont. Imported by Central Board of Agriculture. Owned by G. W. Sanders, Hebron, Yarmouth. Sire Jock 62 Ca., 413 Am. Dam Effic 59 Ca. by Dake, bred by Mr. Cuthbert, Montreal, gr d Beauty by Bsuce, bred by J. Dodds, Montreal, g gr d Effic, imp. by Mr. Dodds.

112.-EFFIE 3RD.

Red and white. Calved February 13th, 1876. Bred and owned by G. W. Sanders, Hebron, Yarmouth. Sire Lord Dufferin 83. Dam Effie 2nd 111, gr d &c., as in preceding No. 111.

113.—FLORA BAKER.

Red with a few white spots. Calved June 12th, 1877. Bred and owned by G. W. Sanders, Hebron, Yarmouth. Sire Lord Dufferin 83. Dam Ellie 2nd 111.

114.—NELLIE.

Red and white. Calved 14th April, 1878. Bred and owned by G. W. Sanders, Hebron, Yarmouth. Sire William 82. Dam Effie 2rd 112.

115.-LADY BLANCHE.

White and red on the sides of face and neck. Calved May 5th, Beed and owned by G. W. Sanders, Hebron, Yarmouth. 1879. Sire Wallace 81. Dam Effic 3rd 112.

116.-LILLY 2ND.

Mostly white with red spots. Calved May, 1871. Bred by Thos. Gny, Oshawa, Ont. Imported by Central Board of Agriculture. Owned by Henry Burrell, Sc. Yarmouth. Sire Eclipse 137 Am., grs Cuthbert, imported by Mr. Cuthbert, Montreal. Dan Scotch Lassic by Prince of Wales 305 Am., gr d Spot by Rob Roy (top) 135 Am., g gr a White Lilly by Dundee 3rd,-Quebec, imported by Mr. Simp-on of Quebec.

117.-LILLY 5TH.

Red and white. Calved March 27th, 1878. Bred and owned by Henry Burrell, Sc., Yarmouth. Sire Wallace 81. Dam Lilly 2nd 116, &c., as in preceding.

118.—LILLY 6TH.

Red and white. Calved April 23rd, 1880. Bred and owned by Henry Burrell, St., Yarmouth. Sire Wallace 81. Dam Lilly 2nd 116.

My idea of a guano island had always been that it was very rocky, and covered with a white substance resembling mortar, before the sand is mixed with it. I imagined, too, that it exhaled an odour differing somewhat from the orange-groves of Tahiti. Had I not been told that I was on a guano island I would not have known it from the surroundings. Instead of being rocky the soil was mellow and dark, and everywhere the vegetation was most luxuriant. The air was remarkably clear and pure. During a walk around the island I then learned that there are two kinds of guano; or rather, that of certain qualities which all guano possesses, some of these qualities predominate in that found in a given locality, while guano taken from islands differently located possesses in a much stronger degree some other essentials. Thus the guano of the islands off the coast of South America, exposed to the rays of a tropical sun, where the surface of the earth is never cooled, and where rain seldom falls, possesses the strongest ammoniacal properties. Not only the excretions of birds are deposited there, but the birds themselves come there to die; and eggs have frequently been taken out a little below the crusts which form over these deposits, that are also pure ammonia. The guano of these islands has a strong pungent odour, and is white and light brown in colour. But the guano of the islands of the Southern Pacific is made of decomposed coral, forming mostly phosphates of lime and magnesia. It is entirely inodorous, and of a dark brown colour, resembling well pulverized loam. It is believed that the birds, which in large numbers inhabit these islands, living as The endurance of the little mags is

they do, almost entirely on fish, deposit phosphoric acid on the coral, and also leave the bones of the fish, which they cannot eat. These decompose the coral. and thus form the phosphates which give to the guano its value. The guano is separated from the cord in the following manner: -There is quite a force of natives employed, who gather the earth in large heaps and then screen it in the same manner as fine coal is separated from coarse. The screens are about eight feet by three, and the iron gause covering them is fine, allowing only the guano, or very fine portions of the earth, to pass through, and leaving the coral in the screens. The guano is then sacked, and shipped Hamburg whence it is reshipped to different parts of Europe.—Exchange.

THE ponies get nothing to eat, except the scanty herbage by the wayside, and were much disposed to linger wherever they could find a few blades of grass. To any such temptation the poor animals were, however, not often exposed, and they jogged along with great persever-ance making up for little food with much drink at the numerous streams which they had to ford. Iceland ponies are generally of a light color, dun, pale chestnut, white, or piebald; under a rough exterior they hide many good qualities, and are as well adapted for the peculiar country which they inhabit as is the noble thorough-bred of Arabia. A vicious animal is almost unknown, and a dealer in ponies, who has passed more of them through his hands than anybody else in the business, assured me that he had not encountered more than one.

astonishing; they will keep up a steady jog for hours together, and will travel on through the long summer days of northern latitudes with no other sustenance than may be picked up during an hour's mid-day halt .- Exchange.

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101 Peter Grant, de de de de de 102 Marquis et Lorne, de de de de de 103 Young Colchester, de de de de de 104 Young Eber, de de de de de 105 Lord Randelijh, de de de de de 106 Lord Bred, de de de de de de 107 Earl et Surrey, de de de de de 108 Howland 13328 Eing, H. B., de de de de de de 109 Cabul 42832 E. H. B., de de de de 110 Lord Lovat, de de de de 111 General Roberts, de de de de 112 Endymion of Lorndale, de de de de 114 Prince Imperial, de de de de 115 Prince Imperial, de de de de 115 Not named, de de de de 116 SHORT HORN COWS AND HEIFERS. 1 Beauty, Jour. Ag. (July 1880), Vol. IV. p. 51 Cawood's Rose, de, de, de, de, de, de, de, de, de, d	89 Duchess of Warwick,	7 LMy 3rd, do. do. do. do. do. S LHly 4th, do.
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101 Peter Grant, do do do do 102 Marquis of Lorne, do do do do do do do d	89 Duchess of Warwick,	7 LMy 3rd, do. do. do. do. do. do. S Lilly 4th, do.
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101 Peter Grant, de de de de 102 Marquis of Lorne, de de de 103 Young Colchester, de de de 104 Young Elor, de de de 105 Lord Randolph, de de de 105 Lord Randolph, de de de 106 Lord Reed, de de de 107 Earl of Surrey, de de de 108 Rowhard 13928 Eng. H. B. de de de 109 Cabul 4283! E. H. B. de de de 109 Lord Lovat, de de de 101 Lord Lovat, de de de 102 Endymion of Lornedale, de de de 103 Belmont Chief, de de de 104 Lord Imperial, de de de 105 Belmont Chief, de de de 106 Lors de de 108 Belmont Chief, de de de 106 Maid of Oxford 4th, de de de 107 Belmont Share, de de de 108 Belmont Chief, de de de 109 Dean, de de de 100 Bellossom de de 100 Gwyme of Lucyd Co de 100 Blossom, de de 100 Blossom, de	## Duchess of Warwick, Sol, Sol, Sol, Sol, Sol, Sol, Sol, Sol	7 LMy 3rd, do. do. do. do. do. do. S Lilly 4th, do.
101 Peter Grant, de de de de de de les avants et le company de l'Arguis et Lorne, de de de de les Young Elber, de de de de de les Young Elber, de de de de de les Young Elber, de de de de de les l'Arguis et Lerrey, de de de de les Revisions de l'Arguis et l'A	## Duchess of Warwick Sol Merry Face do do do do do do do d	7 LMy 3rd, do. do. do. do. do. do. S Lilly 4th, do.
101 Peter Grant, de de de de los 2 Marquis of Lorne, de de de los Young Colchester, de de de de los Young Elor, de de de de de los Lord Randolph, de de de de de los Lord Randolph, de de de de los Rowland 13328 Eng. H. B., de de de de de los Rowland 13328 Eng. H. B., de de de de de los Lord Lovat, de los Lord Lord Lord Lovat, de los Lord Lord Lord Lord Lord Lovat, de los Lord Lord Lord Lord Lovat, de los Lord Lord Lord Lovat, de los Lord Lord Lord Lord Lord Lord Lord Lord	### Duchess of Warwick Sol Sol	7 LMy 3rd, do. do. do. do. do. do. S Lilly 4th, do.
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101 Peter Grant, de de de de 102 Marquis of Lorne, de de de de de 103 Young Colchester, de de de de de 104 Young Elber, de de de de de de 105 Lord Randolph, de	## Duchess of Warwick Sol According to Sol Sol Color Color	7 Lilly 3rd, do.
101 Peter Grant, de de de de de 102 Marquis of Lorne, de de de de 103 Young Celchester, de de de de 104 Young Eber, de de de de 105 Lord Randolph, de de de de 106 Lord Bred, de de de de de 107 Earl of Surrey, de de de de 107 Earl of Surrey, de de de de 108 Rowland 13328 Eng. H. H., de de de de de de 110 Lord Lovat, de de de de de de 111 General Esberts, de de de de de 112 Endymien of Lorndale, de de de de de 113 Belment Chief, de de de de 114 Prince Imperial, de de de de 115 Not named, de de de de 115 Not named, de de de de 116 Not named, de de de de 116 Not named, de	### Duchess of Warwick Sol Sol	7 LMy 3rd, do.
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101 Peter Grant, de de de de los 2 Marquis of Lorne, de de de de los Young Colchester, de de de de los Young Elor, de de de de de los Young Elor, de de de de de los Lord Randolph, de de de de de los Rowland 13928 Eng. H. B., de de de de de de los Rowland 13928 Eng. H. B., de de de de de de los Lord Lord Lord, de de de de de los Lord Lord Lord, de de de de los Lord Lord Lord, de de de de los Lord Lord Lord, de de de de los Lord Lord, de de de de los Rowland 112 Endynnion of Lorndale, de de de de de los Rowland 114 Endynnion of Lorndale, de de de de de los Rowland 115 Reimort Chief, de de de de de los SHORT HORN COWS AND HEIFERS. 1 Besuty, Jour. Ag. (July 1880), Vol. IV. p. 51 de de de de de de los Rowlands Rose, de de de Vol. IV. p. 52 de de de de de de los Rowlands Rose, de de de de de de los Rowlands Rose, de de de de de de los Rowlands Rose, de de de de de de los Rowlands Rose, de de de de de de los Rowlands Rose, de de de de de de los Rowlands Rose Gwynne of Lucy Rodd, de de de de de los Rose Gwynne of Lucy Rodd, de de de de de los Rose of Delhi, de de de de de los Rose of Delhi, de de de de de los Rose of Delhi, de de de de de los Rose of Delhi, de de de de de los Discosom, de de de de los Discosom, de de de de los Rose of Delhi, de de de de los Discosom, de de de de los Rose of Delhi, de de de de los Roses Rod, de de de de los Roses Rod, de de de de los Rose of Delhi, de de de de los Roses Rod, de de de de los Roses Rod, de de de de de de los Roses Rod, de de de de de los Roses Rod, de de de de de los Roses Rod, de de de de los Roses Rod, de de de de los Roses Rod, de de de de los R	### Duchess of Warwick Sol Sol	7 LMy 3rd, do.

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			1
63 Rebecca, Jo 64 Little Dorrit,	our. Ag. (Oct 1870) do do), Vol. IV. p. 77 do	18 Zaidee of Lorndale Jr Ag (Oct. 1880, Vol. 1V. p. 82 19 Lady Seafield, do do do
65 Queen of Ayr,	do do	do	20 Gazelle of Broodyn, do do do
66 Stella, 67 Dolly Varden,	do do do do	do do	21 Jersey Queen. do do do 22 Nathalio, do do do
68 Polly Perkins,	do do	do	23 Gypsey Queen, do do do
60 Rose, 70 Lady Frankin,	त्तं त्व त्व त्व	do do	
71 Bessle, 72 Torta,	uo do do do	do do	DEVON COWS AND HEIFERS.
73 Fairfield Beauty,	do do	do	1 Primrose, Jour. Ag. (Sept. 1880), Vol. IV. p. 65
74 Miss Ceceba, 15 Miss lita,	do (Oct. 1889),	Vol. IV. p. 77	2 Lady Pink, do. do. do. do. 3 Maid of Miller Hill, do. do. do.
70 Pinafore,	do do	do	4 Mungaret, do. do. do.
77 Daisy, 78 Myra,	do do do do	do do	5 Blosom, do. do. do. do. CVol. IV. p. 68
73 Dalsy the Second,	ilo do	do	5 Blossom, do. do. do. do. do. 6 Violet, do. do. do. Vol. IV. p. 60 7 Buttercup, do. do. do. do. do. 8 Mayllower, do.
80 Cherry, 81 Flort,	do do	Vol. IV. p. 77	9 Lily, do, do, do.
82 Maid of Fern Hill, 83 Hortense,	do de do do	do *	10 Verbena, do. do. do. 11 les Grant, do. do. do.
81 Flora,	do do	do	12 Orange, do. do. do.
	đo đo đo đọ	do dq	13 Kalmis, do. do. do. 14 Snowdrop, do. do. do.
87 Hortens.	do do :	do	15 Pansy, do. do. do.
83 Lidy Fairre, 8) Ready,	ರು ರಂ ರಂ ರಂ	do do	16 Myrtle, do. do. do. do. 17 Marigold, do. (Sept. 1880), Vol. IV. p. 66
90 Lady Ballindalloch,	do do	do	18 Poppy, do do. do.
91 Belle of Bellahilt, 92 Rose of Bellahilt,	do do do do	do do	19 Moss Rose, do. do. do. 2 e Larspur, do. do. do.
93 The Nun,	do do do do	do	21 Carnation, do. do. do.
95 Spotted Lady,	do do	do	23 Duchess of Edinb'h, do. do. Vol. IV. p. 67
93 Roschud,	do do do do	ძ ა ძი	21 Princess Victoria Adelaide, do. co. do.
93 Dalsy Duchess,	do do	1.0	25 Princess Alice, do, do, do,
99 Gipsey 9th, 100 Shifty or Staustead.	તાં તાં . તાંગ તાંગ	do do	26 Hawthe 1, do. do. do. 27 May, do. do. do.
101 Rallo of Branks do	des des	do	23 Peony, do. do. do.
102 Maytlower, 103 Lady Windsor,	do do do do	Vol. IV. p. 79 do	30 Princess Beatrice, do, do, do.
10f Lillydale,	do do	do	i 31 Dahlir do. do. do.
106 Gatoxy,	do (June, 1881), do do	do	33 Cowslip, do. do. do.
107 Molly,	do do do do	do do	34 Balsani, do. do. do. 35 Trillium, do. do. do.
109 Louise,	do do	Vol. IV. p. 140	36 Princess Louise, do. do. do.
110 Maple Leaf, 111 Effic 2nd,	do do	đợ dọ	37 Acacia, do. do. do. do. do.
112 Ettie 3rd.	do do	do	39 Princess Victoria 3rd, do. do. do.
114 Neltie.	do do do do	do do	40 Lady Barbara, do. do. do. do. Vol. IV. p. 68
115 Lady Blanche,	do do	do	42 Forglove 2nd, dv. do. do.
116 Lilly 2nd, 117 Lilly 5th,	do do do do	do do	DEVON BULLS.
118 Lilly oth,	do do	do	ì
	SEY BULLS.		1 Prince Alex'r, Jour. Ag. (Sept. 1880), Vol. IV. p.68 2 Sir Charles Napler, do. do. do.
1 Pioneer, Jon 2 Dick Swiveller 3rd,	ır. Ag. (July 1890), do. do.	, Vol. IV. p. 54 do.	3 Curly Prince, do. do. do. do. do. do.
3 Brano.	do. do.	do.	1 5 General Wolfe, do. do. do.
4 Past Tyler, 5 Tyler,	do. do.	do. do.	6 Lord Chelmsford 2nd, do. do. do. do.
6 Yarmouth,	do, do.	do.	8 Lord Keane, do. do. do.
	do, do, do, do,	do. do.	10 Hartland 2nd, do (Oct. 1880) Vol. IV. p. 82
I'l Prince of Lee Farm,	do. do.	do.	11 The President do do do
10 Knight of Lee Farm, 11 Aztinbar,	, do do. - do do.	Vol. IV. p. 55 do.	12 Havelock, do do do
12 Bartizan,	do. do.	do.	GUERNSEY BULLS.
13 Bon Hampton of Hill crest,	do. do.	do	1 Aaul Jones, Jour. Ag., (Oct. 1880), Vol. IV. p. 82
14 Bilaptaur, 15 The Sultan,	do. do. do. do. (Aug. 1880),	de.	2 Bonanza, do do do
16 Prince Imperial,	do. do.	do.	3 Gold Dust, do do do 4 Prince Edward do do do
17 Ajax of Lorndale, 18 Lord Scatteld,	do. do. do. do (Oct. 1880),	do. Vol. IV. p. 81	5 Duke or Kent, do do do do 6 Prince Arthur, do do do
19 Round Robin,	do do	do do	
20 Gambetta French, 21 Eloper,	do do do do	do	GUERNSEY COWS AND HEIFERS.
22 Comet 2nd, 23 Comet 3rd,	do do do do	do do	1 Bertha, Jour. Ag. (Oct, 1880.) Vol. IV p. 82
24 Bellerophon,	do do	do	2 Bertha 2nd, do do do 3 Lady Bird, do do do
25 Eloper 2nd, 26 Lorne,	do do do do	do do	4 Daisy, do do do
27 L'Etranger.	do do	do	
25 Prince of Springfiel."	, do do do do	do do	
	WS AND HEIFE	ne	T B. FRASER,
			ย.
1 Branitza, Jour 2 Nabritza,	r. Ag. (July 1880), do. do.	Vol. 1V. p. 55 do.	SHUBENACADIE, COLCHESTER CO., N. S.,
3 Golden Doublet of			BREEDER OF
Hillerest, 4 Zabrinta,	do. do. do. do. (Aug. 1880).	Vol. IV., p. 61	District Of
5 Unole of Hillerest,	do. do.	do.	Short Horn Cattle, Shropshire Sheep
6 Maid of Orleans. 7 Mermald of St. Lam-	do. do.	do.	
bert,	do. do.	do.	and Ellesmere Pigs,
8 Couslip of St. Lam- bert,	do. do.	do.	all from imported English Stock. Winner of the
9 Sultana, 10 Little Buttercup,	do do. do. do.	do. do.	First Prize at Provincial Exhibition in Halifax in
11 Scaffeld Belle,	do (Oct. 1850), 1	Vol. IV., p. 81	1879; also at Kentville in 1880, for best Herd of Short Horns.
12 Heather Belle, 13 Bellatrix,	do do do do	do do	
14 Domsel,	do do	do	Several BULIS for sale on reasonable terms, all first class animals with certified Pedigree. Also
lo Florne, lo Lady Bonair	do do	Vol. IV. p. 62 do	some young PIGS, about 2 months old, BOARS
17 Bel Aer	do do	do	and SOWS, Pure Ellesmere. dec

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