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

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

VOL. III.

HALIFAX, N. S., OCTOBER, 1878.

No. 20.

PROVINCIAL EXHIBITION.

FAIR DAY.

The Live Stock imported by the Central Board, consisting of Jersey Bulls, Cows, Heifers and Calves, and Leicester and Down Sheep, will be sold on the Exhibition Grounds, Truro, on Thursday afternoon, at 2 o'clock. Mr. Creelman, who gave the Board every satisfaction in 1876, will be the auctioneer. Any exhibitors wishing to effect sales of Stock during Exhibition week, can readily do so, by applying to the same person.

PUBLIC MEETING.

The General Committee of the Provincial Exhibition have arranged for a Grand Public Meeting of the Farmers and Manufacturers of the Province, in Y. M. C. A. Hall, Truro, on Thursday October 3rd. Subject for discussion: "Manures, and their application." The most distinguished agriculturists in the Province will take part in the debate.

LODGING.

The Lodging Committee will be in attendance during Exhibition week, on the arrival of every train. The members will wear badges, and a head office will be established near the Railway Depot. All visitors will be driven to the private houses assigned them, after the Hotels are filled, at a most reasonable charge. Accommodation will be found for all who may visit the Provincial Exhibition this year, and no increase will

be made in the regular rates by any of the hotels, nor in private houses. This the public found to be a fact in Truro in 1876, and we are glad to find that similar reasonable rates for board, &c., will again be furnished this year. Any persons wishing to secure accommodation in advance, for the week, can do so by writing to the Secretary, or to James D. Ross, Esq., Chairman of the Lodging Committee. This course we would enjoin upon intending visitors, as thereby less confusion will ensue during Exhibition week.

TRANSIT.

The General Committee of the Provincial Exhibition, through a sub-Committee consisting of L. B. Archibald, W. M. Blair, and W. D. Dimock, have, with but one exception, obtained the most favorable terms for those visiting our Provincial Exhibition. The I. C. R. authorities have authorized one fare for the double journey for all exhibitors, the Western Counties line have done the same, and the P. E. Island Steam Navigation Company have kindly consented to same low terms from Port Hawkesbury to Pictou, and the *Neptune* will, on the same conditions, carry all passengers from Sydney to West Bay, through the Bras d'Oor Lakes,—all these lines allow exhibits to return free. The agents of the *George Shattuck*, the steamer sailing from North Sydney on the 27th inst., too early for visitors to the Exhibition, have consented to a 20 per cent. reduction in regular tariff rates for all

exhibits brought over their line. With the exception of the transportation over the W. & A. R. R., all the terms obtained from Railway and Steamboat lines are most complete. Any special trains that may be arranged hereafter will at once be announced through the daily press.

PRIZE LIST.

The general Prize List remains the same as has already been assented to by the Central Board, and for months has been in the hands of our farmers, mechanics, and those interested in agricultural exhibitions, with the exception of the following:—

The Fruit Growers' Association and International Show Society of Nova Scotia offer the following additional and special prizes on fruit:

CLASS XI.

Sec. 1.	Add to 1st prize	\$3,	to 2nd	\$2.
" 2.	"	"	"	2
" 3.	"	"	"	2
" 4.	"	"	"	2

Best county collection of apples,—1st prize, \$6; 2nd prize, \$4.

Sec. 61 (pears) add a 1st prize \$4.

This offer materially increases the prizes offered by the Provincial Committee, and is worthy of additional consideration by our fruit growers.

All the room that can possibly be spared, will be given to those who may wish to exhibit articles not enumerated in the Prize List. We are informed that numerous entries of this description have already been sent in.

OPENING AND CLOSING.

The opening ceremonies will commence at 2 o'clock, on Thursday, 1st October. The Chairman of the Exhibition Committee and the President of the Board of Agriculture will take part in the proceedings. His Honor Governor Archibald has consented to give the opening address. He will be received with due ceremony by a volunteer corps, and the band of the 78th Highlanders will be in attendance. Many distinguished officials will accompany His Honor to Truro at the time of the opening ceremonies. The closing address will be delivered by the Secretary of the Central Board of Agriculture, on Friday, the 5th day of October, at 3 o'clock, p. m., after which exhibits may be removed.

JUDGES.

The Committee have reported great satisfaction in the willingness of farmers and others to act as Judges in the different classes assigned to them. On Thorough-bred Stock, two competent men have been found, living outside of Nova Scotia, who have kindly consented to act as Chairman and Vice ditto, in this important class of judges. We expect to hear of no jarring at the close of the forthcoming Exhibition. The Thorough-bred Stock to be adjudicated upon is unknown to these gentlemen, and will be impartially dealt with at their hands.

FODDER AND REFRESHMENTS.

will be furnished on the ground at the most reasonable rates. Hay, straw, oats, roots, &c., have been obtained by the Committee by tender, and thus the cheapest prices have been secured. A constant supply of water will be on hand, brought from the water works system of the town. Refreshments for frail humanity will be furnished on the ground, throughout the week, by the ladies of the St. John's Episcopal and the Onslow Baptist Churches. The prices for meals, &c., are under the control of the Committee. Room will be furnished for the thousands that may visit the Exhibition, and meals can be obtained without leaving the grounds.

There is no prettier town in the Province to visit at this season than Truro, and we hope our farmers, and all interested in these yearly Fairs, will, *en masse*, take a trip to the Provincial Exhibition of 1878.

"Rise, Geordie," said an industrious small farmer in our neighborhood to his cowherd the other morning, "rise, Geordie, for the sun's up." "It's time for him," retorted the youthful herd, yawning and rubbing his eyes, "for he was na' up a' yesterday."

YARMOUTH COUNTY AGRICULTURAL EXHIBITION.

THURSDAY, 10TH OCTOBER, 1878.

Managing Committee:—Bowman Corning, J. W. Moody, Samuel Killam, jr.

Exhibition to be held on Thursday, 10th October, or first following fine day, in the Rink and on the-Grounds adjoining, at Yarmouth.

Premiums (open to the Province) to be awarded to competitors for articles of their own growth or production, or one month's possession in the case of Stock, except animals imported for breeding purposes. Exhibitors, not members of the Society, pay an entrance fee of one dollar at the time of making entries.

Articles exhibited, excepting Stock, must be the growth, production or manufacture of the present year.

The exact age of all animals, with breed and description, must be given, and satisfactory evidence furnished if required, and in case of grade animals, entered as such, so much of the pedigree must be given as to show that they are at least half bred.

Every animal and article whatever must have name of animal or article attached, with the number, but not name, of Exhibitor.

Articles for sale may be so labelled; after the award of premiums, lists of members will be posted, that the public may ascertain owners.

All entries must be made in writing and handed in on or before Monday preceding the day of Exhibition, to the Chairman of the Managing Committee, by whom, or by the Secretary, a number will be supplied to each Exhibitor.

Nothing will be received after 9 A. M. on the day of Exhibition, and no articles on Exhibition to be removed before 3 p. m.

Exhibitors will be expected to look after the proper arrangement of whatever they exhibit, care and safe keeping of Stock, &c., under the direction of the several Committees.

Building and Grounds open only to Committees and Exhibitors until 10 o'clock, after which the public will be admitted to the Rink or Grounds on payment of 10 cents to each place.

The award of Premiums will be announced at 2 P. M., and Premiums will be paid at the ensuing regular Quarterly Meeting—first Wednesday in November.

Manufacturers and inventors are invited to exhibit. Special Committee will be appointed for items not included in Premium List, and premiums will be awarded according to the amount of funds unappropriated.

Compliance with conditions will be required without exception.

Police Constables will be in attendance to protect property and to insure good order.

Premiums are offered in the following Classes:—1. Horses. 2. Cattle: Short-Horns, Ayrshires, Jerseys or Alderneys, Davons, Oxen and Steers, Female Neat Stock. 3. Sheep, Swine and Poultry. 4. Dairy Produce. 5. Grains and Seeds. 6. Vegetables and Roots. 7. Fruits and Flowers. 8. Fine Arts. 9. Bread and Preserves. 10. Domestic Manufactures and Fancy Work. 11. Miscellaneous.

The amounts offered are as follows:—

Class 1.....	\$ 48 00
" 2.....	235 00
" 3.....	71 50
" 4.....	20 00
" 5.....	30 00
" 6.....	48 25
" 7.....	61 00
" 8.....	31 25
" 9.....	22 50
" 10.....	59 00
" 11.....	98 50

\$725 00

The kinds of Apples for dozens of which prizes are offered suggest an instructive comparison with the Truro and Kentville lists:—Andrew's or Major Sweet, Colvert, Jennetting, Gavil Pippin, Gravenstein, Grime's Golden Pippin, Keswick Codlin, King of Tompkins Co., Northern Spy, Astrachan, Reynard, R. I. Greening, Ribston Pippin, Snow. The plums for which prizes for dozens are offered are Breadshaw, Washington, Green Gage, Purple, Yellow. If the Apples and Plums we have named succeed so well at Yarmouth as to warrant special competition, they may be safely planted in any other part of the Province, except the Annapolis Valley, which may possibly be too enervating for some of the hardy sorts.

D. F. LAYTON, Esq., Folly Village, sends us a specimen of *Senecio vulgaris*, a garden weed introduced into his garden along with some garden seeds, and as troublesome in gardens as its relative, Stinking Willie, (*Senecio Jacobæa*) is in pastures. Mr. Layton's plant differs from both *S. Jacobæa* and *S. viscosus* by having no radiate marginal florets.

THE highest attraction in Truro now is the new cupola of the Exhibition Building, as appears from the following paragraph from the *Colchester Sun*. If the Truro cupola pays as well as the Kentville tower it will be a success:—

"Amongst the attractions at the Exhibition Grounds yesterday was a visit to the new cupola erected by Mr. S. S. Crowe on the top of the Exhibition Building. It was visited by over seventy persons, Samuel Craig, Senr., being among the number."

CATALOGUE
OF
THOROUGH-BRED JERSEY
BULLS,
HEIFERS AND CALVES,

Imported from the United States;

AND OF

LEICESTER AND SHROPSHIRE SHEEP,

From Prince Edward Island.

ALL TO BE OFFERED FOR SALE BY

PUBLIC AUCTION,

ON THE

EXHIBITION FAIR GROUNDS,

AT TRURO.

ON

Thursday, the 3rd of October, 1878.

SALE TO COMMENCE AT TWO O'CLOCK PRECISELY.

By direction of the CENTRAL BOARD OF AGRICULTURE OF NOVA SCOTIA,
under authority of the Provincial Government and Legislature.

Messrs. OREELMAN & BOGGS, Auctioneers.

TERMS OF SALE.—Cash on delivery. At the option of the Board, Notes at 6 months, with approved security, will be accepted from individual purchasers. Societies desirous of making available for this sale their Annual Grants for 1878 (payable at the end of December) may arrange to do so by previously applying to the Secretary of the Board.

The Cattle to be kept for service in the Province for a term of five years, the Sheep and Pigs for three years.

In order to encourage the more general diffusion of Thorough-bred Stock throughout the Province, the Board have determined to allow a discount on the sale prices of 10 per cent. to all purchasers from the Island of Cape Breton, and of five per cent. to other purchasers who reside at a distance of not less than 30 miles from a Railway Station. No discount will be allowed upon animals purchased for localities within a distance of 30 miles of a Railway Station, and should any animals not be taken forthwith to the localities for which discount is allowed, purchasers will be required to refund whatever amounts of discount may have been received.

Animals must be taken charge of by purchasers immediately after the sale.

All the animals are in a perfectly healthy condition; none

of them have been fed up for competition or sale. In the case of animals of sufficient age, the greatest care has been taken to select only those actually known to be fertile and free from vice and all other ascertainable faults.

For convenience, and in the interest of purchasers, the fullest information that can be obtained at present, is given in this Catalogue, nothing whatever being withheld that might affect—either beneficially or injuriously—the value or utility of any of the Stock; but the animals will be sold entirely at the risk of the purchaser, with all faults and errors of description, should any appear.

Any further information may be obtained on application to the Secretary of the Board of Agriculture, Professor Lawson, Dalhousie College, Halifax; and, during Fair Week, at the Exhibition Grounds, Truro.

CATALOGUE.

JERSEY BULLS AND BULL CALVES.

LOT.

1.—**Eloper**, American Jersey Cattle Club Herd Register, No. 2386. Solid dark gray. Bred by William B. Dinsmore, Esq., Staatsburg, Dutchess County, N. Y., and purchased from him. Dropped November 8th, 1876.

sire Vermont (893),
gr s Governor (890),
g gr s Napoleon (291),
dam Empress (1552),
gr d Eve 2nd (734),
g gr d Eve (733),

Certificate for transfer of ownership in the Jersey Cattle Club's Register will be delivered to the purchaser.

2.—**Gambetta-French**, American Jersey Cattle Club Herd Register, No. 2923. Solid silver gray. Bred by Wm. B. Dinsmore, Esq., Staatsburg, Dutchess County, N. Y., and purchased from him; dropped May 22nd, 1877.

sire Prince of Staatsburg (9378),
dam Gazelle of Staatsburg 2nd (3202),
gr d Gazelle of Staatsburg (2276),
g gr d Gipsy 4th (772),
g g gr d Gipsy (319).

Certificate for transfer of ownership in the American Jersey Cattle Club's Register will be delivered to the purchaser.

3.—**Bon-Hampton of Hillcrest**, A. J. C. C. H. R., 3240; solid color, full black points; dropped May 29th, 1878.

dam Hannah Duncan 4th 4030, sire Perriot (imp.) 636,
gr d Hannah Duncan 4027; sire Bill, jr., 50,
g gr d Fanny (imp.) 44, sire on Isle of Jersey.

sire Highland Blade 2164, dam Chloe Daniels 2668,
gr s Wethersfield 966, dam Grinella 1303,
g gr s Albert 44, dam Frankie (imp.) 17,
g g gr s Jerry (imp.) 15, dam on Isle of Jersey.

New York, September 10th, 1878.

Pedigree certified as above.

D. W. WATROUS,
51 Ferry Street.

Certificate will be delivered to purchaser, in the proper form, for transfer of ownership in American Jersey Cattle Club's Herd Register.

JERSEY HEIFERS AND HEIFER CALVES.

LOT.

4.—Dorothy of Staatsburgh 2nd, American Jersey Cattle Club's Herd Register, No. 5410. Earlabel 93. Bred by and purchased from W. B. Dinsmore, Esq., Locust Jersey Stock Farm, Staatsburgh, Dutchess Co., N. Y. Solid light fawn; dropped November 10th, 1876.

sire Peter Norman (1238),
dam Dorothy of Staatsburgh (3285),
gr d Dorcas 2nd (728).

Certificate will be delivered to purchaser for transfer of ownership in American Jersey Cattle Club's Herd Register. Served by Eloper (2386), August 25th, 1878.

5.—Rustic Russy, American Jersey Cattle Club's Herd Register, No. 6501. Earlabel 77. Almost a solid orange fawn. Bred by and purchased from W. B. Dinsmore, Esq., Staatsburgh, Dutchess County, N. Y.; dropped May 9th, 1877.

sire Prince of Staatsburgh (2398),
dam Russy 2nd (3535),
gr d Russy (2235).

Certificate will be delivered to purchaser for transfer of ownership in American Jersey Cattle Club's Herd Register. Served by Doesticks (2287) June 28th, 1878.

6.—Signa 5th, American Jersey Cattle Club's Herd Register, No. 6494. Earlabel 97. Bred by and purchased from W. B. Dinsmore, Esq., Locust Jersey Stock Farm, Staatsburgh, Dutchess County, N. Y.

The full pedigree will be supplied to purchaser as soon as the Herd Register containing it can be obtained, along with a certificate for transfer of ownership. Served by Franconia (2310) July 23rd, 1878.

7.—Jade, American Jersey Cattle Club's Herd Register, No. 6498. Earlabel 68. Bred by and purchased from W. B. Dinsmore, Esq., Locust Jersey Stock Farm, Staatsburgh, Dutchess Co., N. Y. Solid fawn; dropped April 13, 1877.

sire Faro (1749),
gr s Vermont (893),
g gr s Governor (890),
g g gr s Napoleon (291),
dam Juliana 2nd (3028),
gr d Juliana (2236).

Certificate for transfer of ownership in the American Jersey Cattle Club's Herd Register will be delivered to the purchaser. Served by Doesticks (2387) August 2, 1878.

8.—Golden Doublet, No. 7199; solid color, white feet and switch, little white on belly; dropped June 29th, 1878.

dam Golden 2999, sire Touchstone 315,
gr d Jessamine 2nd 2998, sire Beacon Comet 675,
g gr d Jessamine 2997, sire Linnere 220,
g g gr d Jessie 541, sire Linnere 220,
g g g gr d Tulip 543, sire Comet 223,
g g g g gr d Lady Clara 547, sire Napoleon 225,
g g g g g gr d Mountain Maid (imp.) 551, sire on Isle of Jersey.

sire Golden Sterling 2795, dam Golden 2999,
gr s St. Martin's Son 2794,
g gr s St. Martin (imp.) 1482; imp'ted in dam Beauty 5311.

New York, September 10th, 1878.

Pedigree certified as above.

D. W. WATROUS,
51 Ferry Street.

Certificate will be delivered to purchaser, in the proper form, for transfer of ownership in American Jersey Cattle Club's Herd Register.

LOT.

9.—Oriole of Hillcrest, No. 7276; solid color, white feet and switch, spot on forehead, black tongue; dropped July 12th, 1878.

dam Rhoda of Merion 5849, sire Fortunatus 1152,
gr d Nelly Potts 1910, sire Saracen 480,
g gr d Janet 664, sire Charleston (imp.) 1,
g g gr d Fairy (imp.) 10, sire on Isle of Jersey.
sire Clifton Granger 2588, dam Adina 1942,
gr s Grimaldi 1354, dam Rosebud 504,
g gr s Mogul (imp.) 532, dam on Isle of Jersey.

New York, September 10th, 1878.

Pedigree certified as above.

D. W. WATROUS,
51 Ferry Street.

Certificate will be delivered to purchaser, in the proper form, for transfer of ownership in American Jersey Cattle Club's Herd Register.

SHEEP FROM P. E. ISLAND.

The following Sheep have been imported from Prince Edward Island, having been raised on the farm of Henry Longworth, Esq., Glynwood, from pure Stock imported within the last twelve years from England for the Government Stock Farm,—the last importation of Rams being in 1876.

10.—Leicester Ram, two years old, took first prize as Ram Lamb and 1st as Yearling at P. E. I. Exhibition. This is a fine Leicester.

11.—Leicester Ram, yearling.

12.—Leicester Ram Lamb.

13— Do.

14— Do.

15— Do.

16— Do.

17.—Leicester Ewe, three years old.

18.—Leicester Ewe, two years old.

19— Do.

20— Do.

21.—Leicester Ewe, yearling.

22— Do.

23— Do.

24.—Leicester Ewe Lamb.

25— Do.

26— Do.

27— Do.

28— Do.

29— Do.

30.—Shropshire Ram, yearling, got by the best Ram of the breed ever imported into P. E. Island, for Stock Farm, (1876). Last season the imported Ram cut 16 lbs. of fine wool.

31.—Shropshire Ram Lamb, got by same.

32— Do.

33.—Southdown Ram.

34— Do.

the necessary personal attention to whatever they exhibit. Necessary attendants upon live stock and workmen actually employed to attend to machinery, will be furnished with admission tickets free, with their names written upon them, which tickets will be good at the *Exhibitor's Gate only*, during the show; such tickets to be obtained from the Secretary by personal application.

12. All articles for competition shall be the production or manufacture of the exhibitor; field produce must be the growth of 1878; and all live stock must have been owned and kept by exhibitor in the Province not less than three months prior to the Exhibition.

13. Articles from other countries, and especially from other Provinces of the Dominion, are solicited, but not for competition. The Committee will have the power of granting a limited number of honorary certificates for such articles.

14. All expenses incurred in the conveyance of articles or animals, to and from Truro, placing them in the Exhibition, and maintaining them 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.

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.

15. Each exhibitor will receive from the Secretary an entry ticket for every article to be exhibited by him, and he is required to affix such ticket upon the article or animal which he exhibits, or on the stalls.

16. When fewer than three competitors appear for any prize, and where the articles exhibited are of inferior merit, the judges shall have the discretionary power of awarding or withholding prizes or reducing their values. No articles 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.

17. The committee are required to reject articles which they shall consider unworthy or unfit for exhibition.

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

19. During the exhibition all vegetable

products and manufactured articles shall be under the control of the Exhibition Superintendents, and all live stock shall be taken charge of by their owners,—the Superintendents giving all practicable 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.

20. All articles exposed for sale shall have the price affixed, and be sold by the owners, or by parties appointed by them for that purpose. No auctioneer will be allowed to sell animals or articles on the grounds or in the building, without the written permission of the President or Secretary of the Committee, and the time and place of sale specified in such permission must be strictly adhered to.

21. Articles sent for competition or exhibition shall not be removed from the exhibition rooms or grounds, till the time appointed, under forfeiture of any prizes or awards that may have been made to the respective exhibitors.

22. 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 show 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.

23. Any exhibitor who may feel aggrieved in consequence of any irregularity, is requested simply to draw the attention of the Committee of the Department, or of some member of the General Committee to such, without entering into any discussion apt to cause hindrance or distraction. Should he not receive what he may consider sufficient redress 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 enquiry.

24. No animal can be admitted within the enclosure that has not been previously entered in accordance with Regulations 6 and 7, and animals of an inferior character, unworthy of a place in the Exhibition, will not be admitted under any circumstances.

25. Space will be provided for any article that may be forwarded for exhibition, subject to approval of Committee, apart from such as are mentioned in the Prize List. Awards of merit will be given for such, all of which exhibits must be entered on the Secretary's Book in the manner prescribed for those that come within the Prize List.

29. Exhibitors must supply themselves

with proper fastenings for safely securing the animals in their stalls. All bulls over nine months must have nose-rings.

ADDITIONS TO NOVA SCOTIA STOCK REGISTER.

SHORT-HORN BULLS.

CCCLXXXIV.—DUKE OF THE VALLEY. Red roan. Calved Dec. 29th, '77. Sire Bretwalda CCXLIII. Dam CCCLXXXV. by Roan Duke CIX. gr d by Lobo Lad VIII. g gr d by Sir William XII.*

Reference Number.

CCCLXXXV. Cow by Roan Duke, her dam by Lobo Lad VIII., gr. dam by Sir William XII.*

Transfers.

CCCXXV. — The Short-horn bull PRINCE OF VALLEY, is now the property of the Clarence Agricultural Society, Annapolis County.

CCCXXI.—Short-horn bull ROWAN, is now the property of Mr. Newton Newcomb, Cornwallis.

AYRSHIRE BULL CALF.

CCCIII.—BELLAHILL. Red and white. Calved 23rd May, 1878. Bred and owned by Peter Jack, Esq., Bellahill, Co. Halifax. Sire Young Royalty CXXXVII., gr. s. Emperor CXCVIII. Dam Belle of Bellahill CCCV., gr d Belle of Avondale CXXV., imported from Scotland (Fleming, Strathaven).

CCCXIV. — BRUTUS. White and Brown. Calved April 8th, 1878. Bred by, and the property of C. P. Blanchard, Esq., Hillside Farm. Sire Bismarek [500] CCXXXVIII. Dam Rose CXVIII. gr d Josephine, g gr d Miss Cuthbert (imp.)

CCCXLVI.—CASSIUS. White and brown. Calved April 4th, 1878. Bred by, and the property of C. P. Blanchard, Esq., Hillside Farm. Sire Bismarek [500] CCXXXVIII. Dam Dolly Varden CXXI., gr d Torta, g gr d Miss Cuthbert (imp.),

CCCXLVII.—MARK ANTHONY. White with brown spots. Calved June 3rd, 1878. Bred by and property of C. P. Blanchard, Hillside Farm, Truro. Sire Bismarek [500], CCXXXVIII. Dam Polly Perkins CXL., gr d Miss Cuthbert (imp.)

AYRSHIRE BULL.

CCCXXII.—DUKE OF SUSSEX, 71 N.B. Red marked with white on forehead and

sides. Calved March 8th, 1877. Bred by Hugh McMonagle, Esq., Sussex, King's Co., N. B. The property of the Clements Township Agricultural Society, Co. Annapolis, N. S.
Sire Selwyn CCLXXV., 1448 A. & C. A. H. B.
Dam Red Plum, 1776 A. & C. A. H. B.
gr d Nora 672 " "
g gr d Ceres 2nd 301 " "

CCCXVIII.—PRINCE ALBERT. Bred on Government Stock Farm, P. E. I. The property of the River John Agricultural Society, Co. Pictou.
Sire Duke of Hamilton CCCXIX. out of an imported cow and bull both bred by the Duke of Hamilton.
Dam Cow CCCXX., bought from the Duke of Hamilton's herd of Ayrshires in the year 1865, by Henry Longworth, Esq.

CCCXXX.—COMET. White and about one-third red. Calved March 3rd, 1878. Bred by, and the property of Col. W. E. Starratt, Paradise, Co. Annapolis.
Sire Talbot No. "605" C. A. H. R. by imp. Sir George (864) out of imp. Netty (1680).
Dam Fawn by Selwyn "622" Ca. H. R., 1448, A. & C. A. H. R., out of Dew-drop 2nd "487" Ca. H. R.

CCCXXXI.—MARS. Dark red. Calved March 27th, 1878. Bred by, and the property of Col. W. E. Starratt, Paradise, Co. Annapolis.
Sire Thrift No. 136 U. S. R.
Dam Miss Strong, imp. in 1875 by C. B. of Agriculture, sired by Brown-castle Lad, out of Betsey Bell, Mr. Fleming, Strathaven, Scotland.

CCCXXXVIII.—TABITHA, No. 487 N. A. A. R. Red and white, about one-quarter red, large white spot in forehead, with small red spot in centre, small line of white on either side of nostrils. Calved May 13th, 1874. The property of Col. W. E. Starratt, Paradise, Annapolis Co.
Sire Imp. Mains No. 152 N. A. A. R.
Dam Imp. Turning No. 500 N.A.A.R.

AYRSHIRE HEIFER CALF.

CCCIV.—ROSE OF BELLAHILL. Red and white. Calved June 8th, 1878.
Sire Young Royalty CXXXVII.
Dam Belle of Avondale CXXV., imp.

CCCXXVI.—CLEOPATRA. Red and white. Calved May 25th, 1878. Bred by and property of C. P. Blanchard, Esq., Hillside Farm, Truro.
Sire Micmac.
Dam Bessie CCXCII.,
gr d Nora.

AYRSHIRE HEIFER.

CCCXXI.—MOLLY, 117 N. B. White

and red, well marked. Calved May 19, 1877. Bred by Hugh McMonagle, Esq., Sussex, King's Co., N. B. The property of the Clements Township Agricultural Society, Co. Annapolis, N. S.
Sire Selwyn CCLXXV. 1448 A. & C. A. H. B.
Dam Martha C., 2827 A. & C. A. H. B.,
gr d Martha 597 " "
g gr d Nelly 660 " "

CCXLI.—HORTENSE. Red and white. Calved May 16th, 1877. Bred by C. P. Blanchard, Esq., Truro. The property of R. J. Turnbull, Esq., Bear River, Co. Digby, N. S.
Sire Young Prince of Wales XLII.
Dam Josephine XXVIII. by Compton CLI.,
gr d Miss Cuthbert (imp.) XXVII.

CCCXXXVI.—BLOSSOM. White, with a few red spots. Calved March 10, 1878. Bred and owned by Col. W. E. Starratt, Paradise, Annapolis Co.
Sire Selwyn CCLXXV., 622 Ca. H. R. 1448 A. & C. A. H. R.
Dam Dew-drop 2nd CCCVIII. 487 Ca. H. R.,
gr d Dew-drop CCLXXIV., 1064,
g gr d Lady Crawford "1405,"
g g gr d June, imp. by the late J. Dods.

CCCXXXVII.—CROCUS 3RD. Red, with a few whitespots about body. Calved March 18th, 1878. Bred and owned by Col. W. E. Starratt, Paradise, Annapolis.
Sire Thrift No. 136 N. S. R., out of Tilley, by Washakum No. 230, out of Model of Perfection (370) by Habbie Simpson 92.
Dam Daisy No. 145 N. S. R., sired by Lori Logan (imp.),
gr d Crocus 2nd CXXXIV.
g gr d Crocus 524 (imp.).
g g gr d Hairstock, imp. from Scotland.

AYRSHIRE COW.

CCCV.—BELLE OF BELLAHILL. Red and white. Calved October 25th, 1875. Bred by the Central Board of Agriculture of Nova Scotia. The property of Peter Jack, Esq., Bellahill, Co. Halifax.
Sire Colonel CCCVI.
Dam Belle of Avondale CXXV., imp.

Reference Pedigree of Ayrshire Bull.

CCCVI.—COLONEL. Fleming, Strathaven, Scotland. Sire Bismarek (Fleming's); dam Maggie (Fleming's).

JERSEY HEIFER CALF.

CLVIII.—BLUE BELLE. Calved July 15th, 1878. Bred and owned by James B. Duffus, Esq., Halifax.
Sire Lord Seafield CIII.
Dam Belle CXVI.,
gr d Browney CXXXV. (prize),
g gr d Cow in Jersey.

LEAD POISONING OF ANIMALS.

To the Editor of the Agricultural Journal:

SIR,—As lead poisoning has become a very common cause of death of animals, especially horned cattle, I thought that a few remarks on the same, would be both interesting and instructive to many of your readers.

From my own experience, the majority of the cases occur in the neighbourhood of towns, from the fact that the farmers get large quantities of manure from the towns, and which often contains portions of lead, either in the form of sheet lead, which becomes converted within the body into an oxide or active salt, bottoms and scrapings of paint pots, &c., &c., either of which are of a sweetish taste, and much relished by cattle, especially young animals.

Lead poisoning may also occur from using water that has been standing any time in tanks made of lead, and in many other ways, direct and indirect. When the oxide of lead is once deposited in a field, that spot is never free from its effects, for the grass readily takes up the oxide, carbonate, and sulphate of lead, and consequently becomes an active poison to any animal that has the misfortune to eat the grass on that space of ground over which the manure was spread containing the refuse of a painter's shop, or pieces of metal which become oxidised.

When animals are poisoned from the effects of eating the grass containing the oxide, carbonate or sulphate of lead, you have the following symptoms—which are analogous to those observed in man. They usually continue, in a more or less aggravated form, for several weeks or months. They appear to depend on the accumulation of lead in the system, and on the consequent impairment of the digestive functions, and the deterioration of the blood. The appetite becomes capricious, is sometimes entirely gone, and at other times is morbidly increased. Colic and constipation are not so invariable as in the human subject. The gums and teeth are of a blue or grey color, also a blue line appears in the gum of the lower jaw. The animal suffers a good deal of pain, gradually falls off in strength and condition, and exhibits a disordered or depressed of the nervous system, with symptoms of paralysis, epilepsy or apoplexy. There is a rough coat, a tucked-up appearance of the abdomen, and a slightly accelerated pulse, a grey colored discharge from the nostrils, and saliva from the mouth, and, strange to relate, no enlargement of the sub-maxillary lymphatic, or salivary glands, and no constipation, as seen in the majority of cases in the human subject, difficult breathing and finally death. *Post mortem appearances.*—The lungs and trachea

were inflamed; the lungs engorged with large quantities of black blood; the trachea and bronchi filled with frothy spume. In most cases the villous parts of the stomach presented isolated patches of increased vascular action; and in all cases the intestines, and especially the large ones, were inflamed.

Where animals are poisoned from eating the actual metal which, as before stated, becomes converted in the stomach into an oxide or active salt, the disease runs its course in a few hours or days, according to the amount taken into the body. The following account of such a case is that of an animal of Mr. Weir's that died from the effect of lead poisoning in a field at the end of South Street, Halifax, N. S. One Sunday in July, 1878, I was requested to go and see a calf of five months that was reported as very ill. I must here relate a tale that is told of this said field, viz., that at a certain spot in it any animal that happens to eat the grass would be sure to die, and notwithstanding this knowledge of the fact some twenty or thirty animals have been permitted to die from the *unknown cause* within a very few years. I am quite satisfied now that lead poisoning has been the cause in every instance, as you will see by the following account of this calf's case:

The calf was not on the *deadly spot*, but tethered in the same field about one hundred yards from it, and showed the following symptoms:—The animal was standing with his legs stretched out to support himself, the coat was very rough, the head thrown back toward the off shoulder, with rigid contraction of the cervical muscles, a great discharge of saliva from the mouth, and peculiar moan. The eyes were covered over with a film, and the teeth were constantly grinding. Paralysis of the hind quarters was present, and great pain on pressure to the stomach (paunch). I at once diagnosed it as a case of poisoning from lead, and having heard the story of the fatal spot so often, I determined to unravel the mystery. While talking to the owner of the calf I picked up a piece of white-lead weighing about a pound within twenty feet of the calf, which evidently had been the bottom of a paint pot. I treated the animal with the usual antidote for cattle, viz., sulphuric acid, which would necessarily convert it into the insoluble white sulphate, but the animal died next day despite all treatment, and the following was the result of the *post mortem*:—The lungs and trachea were inflamed, the lungs engorged with large quantities of black blood, large patches of inflammation on the villous portion of the stomach. The other organs were little affected, but on analysis of parts of the stomach and intestines, lead to a large amount was traceable.

Taking these facts into account, there

can be little or no doubt that at some period a large quantity of some of the compounds of lead has been deposited in this field, and on that particular spot, and that portions of it have been carried to other parts of the field, as proved in this case.

In cases of lead poisoning among the lower animals, the metal usually enters the body in the food or water which the animal consumes. Lead poisoning sometimes occurs from drinking water conveyed through leaden pipes or allowed to stand in leaden cisterns. The conjoined action of the air and moisture soon produces on the surface of the metal a crust of hydrated oxide, which unites with carbonic acid drawn from the air, and crumbles away as a crystalline powder, partly dissolved and partly suspended in the fluid.

Leaden vessels, or vessels with lead solder, should be used with great caution for holding water for any length of time, or other fluids likely to affect a solvent action on the metal. This caution is especially applicable to the softest waters, as distilled rain or snow water. Hard waters, however, are not so liable to be contaminated with lead, for their carbonates, sulphates, phosphates, or other salts are decomposed; and the carbonic, sulphuric, phosphoric, or other acid, unites with the lead, forming slowly an insoluble crust, which effectually protects the metal from any further action of the air or water. This view was generally entertained by the best authorities, but seems now to require some modification; for several cases of lead poisoning have occurred where lead cisterns have been acted upon by waters decidedly hard. A bit of iron, a patch of soft solder, or even a few carbonaceous or other impurities in the lead, appear, in such cases, to set up a galvanic action with the metallic lead, thus inducing its solution. Such facts should make persons exceedingly careful to prevent lime, mortar, nails, or in fact any foreign body from getting into leaden cisterns, and to empty and clean them out occasionally, especially when new.

Yours faithfully,
CHARLES BYRNE,
Vet'y Surgeon.

Halifax, Sept. 13th, 1878.

The following Ayrshires were transferred in April and May to Mr. John A. McCurdy, Onslow:—

Primrose, 128, formerly owned by Mr. C. P. Blanchard, Truro.

Lily 3rd., 132, formerly owned by Mr. Henry Burrell, Yarmouth.

Harry Moore, 139, formerly owned by Rev. H. P. Almon.

The Digby Agricultural Society intends holding an Exhibition this Fall. The Society owns three thorough-bred Bulls, 2 Devons and an Ayrshire, and a Grade Bull by General Grant.

The Ayrshire Herd of John A. McCurdy, Esq., Onslow, consists of the following thorough-bred animals:—

Lily 3rd., (from H. Burrell, Yarmouth).

Primrose.

Harry Moore, 139.

May Queen, 295.

Lady Mary, 296.

S. H. DUCHESS, 353, belongs to Mr. Ross Chipman, Cornwallis.

Pedigrees of Cattle purchased for the Board, in England, by Mr. Simon Beattie, and expected by an early steamer, will be published so soon as they come to hand. The importation will consist of

Two Short-horn Durham Bulls,

Two Short-horn Durham Cows,

Two Ayrshire Bulls.

Two Heifers of the same breed,

Two Shropshire Down Rams,

Six Shropshire Ewes,

One Medium Yorkshire Sow.

BRONZE TURKEYS.

A FEW very fine Bronze Turkeys, hatched in May, 1878, for sale. These Chicks are from the celebrated Mattocks Prize Stock.

Also—Some fine W. F. Black Spanish Fowls for sale.

W. H. BLANCHARD,
Windsor, Sept., 1878. oct 1.

FOR SALE.

A SHORT-HORN Durham bull, purchased from the St. Andrew's Agricultural Society, viz., "Peter 2nd," calved August 9, 1874—Sire "Lord York" (imported from England); Dam "Gasporee"; g. d. "Favourite"; g. g. g. d. "Young Favourite"; g. g. g. g. d. "Young Favourite." The above was imported from Kings County about two years ago, has proved himself an excellent Stock getter and very kind. The attention of Agricultural Societies is directed to this sale. Further information on application to

D. D. CHISHOLM, Merchant.

St. Andrew's Antigonish County,
September 20, 1878.

CLEMENTS AGRICULTURAL SOCIETY offers for sale, very cheap, registered Bull "LORD GOWAN," No. 234, Ayrshire; two years old; brown and white; girls five feet six inches; very good for his purpose, and offered for sale because Society is overstocked. Apply to JOHN POTTER, the keeper, Clementsvale, or to

W. M. GODFREY, Sec'y C. A. S.
Clementsport, Annapolis Co., Sept. 4, 1878.

THOROUGH-BRED AYRSHIRE STOCK.

THE subscriber will have on exhibition and for sale at the Truro Exhibition grounds, during the first week of October, five young thorough-bred Ayrshire bulls—the get of BISMARCK. They are large for their age and handsome, and not inferior to any ever imported into this Province.

C. P. BLANCHARD,
sepl Hillside Farm, Truro, N. S.

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