

The Canadian Shire Horse Breeders' Association.

The Shire Horse Breeders' Association held their annual meeting at the Albion Hotel, Toronto, Feb. 9th. President H. N. Crossley was in the chair, and among those present were: John Gardhouse, Highfield; John Davidson, Ashburn; Wm. Linton, Aurora; Jas. Snell, Clinton; W. E. Wellington, Toronto; T. Boynton, Dollar; Jas. Leask, Taunton; A. Johnston, Greenwood, and J. M. Gardhouse, Highfield.

The Secretary-Treasurer, Mr. H. Wade, presented his report. There had been rather better results during the year in the way of registration and membership fees, but there was still room for progress. The financial statement showed the total receipts, including a balance from last year of \$30.68, to have been \$76.18. The total expenditures amounted to \$23.50, leaving a balance on hand of \$52.68.

Mr. Crossley, in his address, anticipated a much larger importation of Shire horses during the coming year than has been the case during the past four years. Better prices had lately prevailed, and a more active demand.

The Association adopted a resolution asking the U. S. authorities to accept certificates of registration in recognized Canadian Records to pass the customs free of duty.

Officers for the coming year were elected, as follows: President, H. N. Crossley, Toronto; Vice-President, W. E. Wellington, Toronto; Directors—John Gardhouse, Highfield; Jas. M. Gardhouse, Highfield; Wm. Hendrie, Jun., Hamilton; Wm. Wilkie, Toronto; H. J. Smith, Highfield; Geo. Garbutt, Thistleton; Thos. E. Kinner, Mitchell. Delegate to Industrial Exhibition, John Gardhouse, Highfield. Delegates to Western Fair, H. Wade, Toronto, and Thos. E. Kinner, Mitchell. Delegate to Ottawa Exhibition, John Gardhouse, Highfield. Delegates to Horse Breeders' Association, H. N. Crossley and W. E. Wellington. Judges recommended for Spring Horse Show, R. Gibson, Delaware, and Dr. R. P. Eberker, Springfield; for other shows, R. Gibson, J. Y. Ormsby, John Gardhouse, and Thos. Kinner. Committee on Stud Book, H. N. Crossley, John Gardhouse, and H. Wade. Auditor, C. M. Complin, London.

Dominion Swine Breeders' Association.

A meeting of the Directors of the Dominion Swine Breeders' Association was held at the Palmer House, Toronto, Feb. 8; the President, Mr. Geo. Green, Fairview, in the chair. Present—Messrs. T. Teasdale, Concord; W. H. Jones, Mt. Elgin; J. E. Brethour, Burford; J. Featherston, M. P., Streetsville; Prof. G. E. Day, Guelph; R. H. Harding, Thorndale; W. E. Butler, Dereham Centre, and W. M. Smith, Fairfield Plains. The Secretary, Hodson, presented a lengthy report, reviewing the work of the Association, and dealing among other things, with the following subjects: "Interprovincial Trade," "The Growth of the Association," and the "Swine Records." A comparative statement of the operation of the Association shows that the receipts in 1891 were \$340, and the membership 40; in 1898 the receipts were \$3,031.55, and the membership 369. The following comparative statement of entries, etc., at the Provincial Winter Show under the joint management of the Cattle, Sheep, and Swine Breeders' Associations was given to show the growth of what is now the largest show of its kind on the continent: In 1891—Number of entries, 81; entry fees, \$120.50; total amount of premiums paid, \$325; gate receipts, \$68.75. In 1898—Number of entries, 760; entry fees, \$661.75; total amount of premiums paid, \$4,378; gate receipts, \$454.55.

A number of suggestions submitted by the Secretary were adopted, and committees appointed to carry them into effect. It was stated that, finding that the Government grant to the Swine Breeders' Association was some \$300 less than those to the Cattle and Sheep Breeders' Associations, the Minister of Agriculture had promised that if the block tests were continued and extended at the Winter Show, and if the Association would agree to appropriate a suitable amount of its funds to encourage and develop the dried poultry industry, an additional \$300 would be granted the Swine Breeders' Association. A resolution that this be carried into effect was adopted.

It was agreed that in the case of wethers and barrows, in the pure-bred classes, registration should not be required, but the sire and dam must be recorded and a statement of the breeding furnished.

On motion, the following were appointed a committee to arrange for a series of experiments in feeding pigs with different kinds of food and under varied circumstances to ascertain the best methods of producing the best quality of bacon: Messrs. Featherston, Day and Hodson.

As the Swine Records are two years behind time, it was decided to have two volumes of the Record published this year, so as to be up to date in future. The prize list for the Provincial Winter Show was revised, and the following judges were appointed: For Chester Whites, Poland-Chinas, Duroc-Jerseys, and grades and crosses—T. Teasdale, Concord; G. B. Hood, Guelph; reserve, C. W. Yapp, Brantford. For Berkshires, Yorkshires, Tamworths, Essexes and Suffolks—W. H. Jones, Mt. Elgin; R. H. Harding, Thorndale; reserve, C. W. Yapp. For Sweepstakes—The two sets of judges on the classes. For bacon classes—C. C. Wilson, Ingersoll; Chester Fearman, Hamilton; James Leach, Toronto.

Dominion Sheep Breeders' Association Annual Meeting.

The annual meeting of the Dominion Sheep Breeders' Association was held in Shaftesbury Hall, Toronto, on Feb. 7th, the President, Mr. D. G. Hamner, in the chair. The attendance of members was large and much enthusiasm prevailed. In his opening address the President congratulated the members on the successful and profitable year which the breeders had experienced, the demand for pure-bred sheep having been steady, at improved prices. The unqualified success of the Provincial Winter Show, under the joint auspices of the Cattle, Sheep and Swine Breeders' Association, was also referred to as being most gratifying and encouraging, the exhibit of sheep being most creditable and of a high standard of excellence.

The Secretary's report referred to at considerable length to the work and enterprises of the Association, dealing especially with the transportation question and the reduced freight rates secured from the railway companies for pure-bred registered stock, which has largely facilitated and increased interprovincial trade and promises to result in great good to the farmers throughout the Dominion by the distribution of improved stock.

FRAUDULENT SHIPPING OF STOCK.
Information having reached the Association that unscrupulous parties have been taking unfair advantage of the special reduced rates of freight for registered stock by the use of bogus certificates of registration, the following resolution was adopted:—

Moved by D. McCrae, seconded by W. Linton—That, it having come to our knowledge that certain parties have been shipping stock fraudulently under our special privileges, we hereby request our directors to take such steps as may aid the railway companies to prevent such fraud in future, and bring the guilty parties in the instance stated to justice.

ELECTION OF OFFICERS.

The following officers and directors were elected: President, D. G. Hamner, Burford; Vice-President, A. W. Smith, Maple Lodge; Secretary-Treasurer, F. W. Hodson, Toronto. Directors—Cotswolds, D. McCrae, Guelph; Leicesters, W. White, Guelph; Hampshires, John Kelly, Shakespear; Dorsets, R. H. Harding, Thorndale; Southdowns, John Jackson, Abingdon; Oxford, J. Tolton, Walkerton; Lincolns, W. M. Smith, Fairfield Plains; Shropshires, R. Gibson, Delaware; Ontario Agricultural College, G. E. Day, O. A. C., Guelph; General Director, J. C. Snell, London. Auditor—J. M. Duff, Guelph. Representatives to Fair Boards—Toronto Industrial Exhibition, F. W. Hodson, Toronto, and Jas. Russell, Richmond Hill; Ottawa, Jos. Yuill, Carleton Place; Montreal, H. D. Smith, Compton, Que.; London, A. W. Smith, Maple Lodge, and R. H. Harding, Thorndale. Committees—Executive and Transportation, President, Vice-President, Secretary, and Messrs. John

Jackson and Richard Gibson. Delegates to the Board of the Provincial Winter Fair—Jas. Tolton, A. W. Smith, and R. H. Harding.

EXPERT JUDGES.

The following expert judges were then elected:—

Lincolns—J. T. Gibson, Denfield; William Oliver, Avonbank; E. Parkinson, Eramosa; T. E. Robson, Ilderton; G. Walker, Ilderton; Jno. Geary, London; R. W. Stevenson, Lambeth; L. Parkinson, Marmosa; F. Ralph, Ballymore; R. H. Harding, Thorndale; L. Goodwin, Monroe; Jno. Mitchell, Glencoe; Jno. White, Eramosa; A. W. Smith, Maple Lodge; W. Whitelaw, Guelph.

Dorset Horns—John Jackson, Abingdon; J. G. Hamner, Mount Vernon; R. Gibson, Delaware; W. H. Beattie, Wilton Grove; Prof. Curtiss, Ames, Iowa, U.S.; Thos. W. Hector, Springfield-on-the-Credit; G. P. Everett, Mount Vernon; Mortimer Levering, Lafayette, Ind.; Arthur Danks, Allamuchy, N.J.; Prof. Craig, Ames, Iowa; G. E. Day, O. A. C., Guelph; H. N. Gibson, Delaware; J. E. Wing, Mechanicsburg, Ohio; M. A. Cooper, Washington, Pa.

Shropshires—R. Gibson, Delaware; G. P. Everett, Mount Vernon; J. Conworth, Paris; W. H. Beattie, Wilton Grove; A. Brown, Picton; R. Miller, Stouffville; J. Hamner, Burford; Jas. McFarlane, Clinton; J. Campbell, Woodville, D. G. Hamner, Burford; Jas. Phinn, Hespeler; M. Levering, Lafayette, Ind.; A. Elliott, Galt; J. Dickie, Milton West; J. I. Thompson, Gas City, Ind.; G. Allen, Alton, Ill.; W. G. Pettit, Freeman; D. J. Campbell, Woodville; G. Phinn, Hespeler; C. Calder, Brooklin; H. N. Gibson, Delaware; G. Hindmarsh, Ailsa Craig; C. W. Gurney, Paris; W. E. Wright, Guelph; J. Miller, Brougham; H. Hamner, Burford; Prof. Curtiss and Prof. Craig, Ames, Iowa.

Leicesters—James Gaunt, St. Helen's; Jno. Wells, Galt; Hardy Shore, Guelph; Abraham Easton, Appleby; E. Wood, Appleby; William Parkinson, Eramosa; H. Parkinson, Eramosa; John Orr, Galt; William Watt, Salem; William McIntosh, Burgoyne; Thomas Curdell, Fularton; R. Eastwood, Mimico; John Kelly, Shakespear; Andrew Thompson, Fergus; J. K. Campbell, Palmerston; J. C. Snell, London; G. B. Armstrong, Teeswater; John Gibson, Denfield; C. E. Wood, Freeman; Jos. Gaunt, St. Helen's; J. M. Gardhouse, Highfield; John Laidlaw, Wilton Grove; Andrew Whitlaw, Guelph; Wm. Whitlaw, Guelph; R. C. Martin, Marysville; A. W. Smith, Maple Lodge; A. Barker, Thistleton; Alex. Wadde, Acton; Walter Nichol, Plattsville; H. G. Arnold, Maidstone.

Hampshires and Suffolks—Henry Arkell, Arkell; R. Gibson, Delaware; J. Hiller, Thorntown, Mich.; J. I. Gordon, Mercer, Pa.; J. A. Craig, Ames, Iowa.

Southdowns—John Miller, Markham; W. Martin, Binbrook; H. N. Gibson, Delaware; John Jackson, Abingdon; J. C. Douglas, Galt; Henry Arkell, Teeswater; W. H. Beattie, Wilton Grove; A. Simenton, Blackheath; G. L. Telfer, Paris; J. G. Hamner, Mount Vernon; J. Scott, Aberfoyle; G. Baker, Simcoe; Jas. Smith, Mount Vernon; H. B. Jeffs, Bond Head.

Cotswolds—H. Rawlings, Ravenswood; J. D. Davidson, Belhaven; John Goodfellow, Macville; Val. Fitch, Oriel; Arthur Johnston, Greenwood; W. G. Laidlaw, Wilton Grove; D. McCrae, Guelph; John Park, Oriel; Wm. Rae, Arkell; Jas. Russell, Richmond Hill; And. Russell, Carville; Geo. Weeks, Guelph; T. Hardy Shore, Guelph; J. C. Snell, London; T. Teasdale, Concord; Wm. Thompson, Uxbridge; Wm. Ward, Uxbridge; Jos. Ward, Marsh Hill; A. J. Watson, Castlederg.

Oxford—Kenneth Finlayson, Campbelltown; J. V. Cooper, Picton; Wm. Newman, Cherry Valley; Wm. Arkell, Teeswater; Jas. L. Tolton, Walkerton; L. Parkinson, Greenock; Smith Evans, Gourock; Jas. Tolton, Walkerton; R. J. Hine, Dutton; Henry Arkell, Arkell; William Dickenson, Midway; Peter Arkell, Teeswater; Herbert Wright, Guelph; John Harcourt, St. Ann's; J. H. Jull, Mt. Vernon; Henry Arkell, Teeswater; John E. Cousins, Harriston; Elmer Turner, Burford; Arch. McKenzie, Corwin; R. E. Birdsall, Birdsall; George McKerron, Sussex, Wis.; W. A. Shafer, Middleton, O.; J. C. Williamson, Xenia, O.; C. C. Keinar, Brockville, Ohio.

Merinos—W. M. Smith, Fairfield Plains; R. Shaw, Guelph Station; W. H. Beattie, Wilton Grove; Rock Bailey, Union; A. Terrell, Wooler; G. P. Everett, Mt. Vernon.

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Provincial Winter Show.

A meeting of the Directors of the Provincial Fat Stock and Dairy Show was held at the Palmer House, Toronto, Feb. 10th. The following delegates from the various Stock Breeders' Associations were present: John I. Hobson, Guelph, President; J. C. Snell, London, Vice-President. From the Cattle Breeders' Association—John I. Hobson, Guelph; G. W. Clemons, St. George; Richard Gibson, Delaware. Sheep Breeders' Association—R. H. Harding, Thorndale; A. W. Smith, Maple Lodge; Jas. Tolton, Walkerton; D. G. Hamner, Burford. Swine Breeders' Association—Geo. Green, Fairview; J. E. Brethour, Burford; G. B. Hood, Guelph. Butter and Cheese Association of Eastern Ontario—H. Wade, Toronto.

The officers, directors and committees for 1899 are as follows:

OFFICERS.
President, John I. Hobson, Guelph; Vice-President, J. C. Snell, London; Secretary-Treasurer, F. W. Hodson, Toronto.

COMMITTEES.

Executive and Programme—President, Vice-President, Secretary, and Messrs. J. E. Brethour, Burford; James Tolton, Walkerton; H. Wade, Toronto; G. W. Clemons, St. George. Committee on Cattle—John I. Hobson, G. W. Clemons, Richard Gibson. Committee on Sheep—R. H. Harding, A. W. Smith, Jas. Tolton. Committee on Swine—G. B. Hood, J. E. Brethour, Geo. Green. Dairy Committee—G. E. Day, Guelph; H. Wade, G. W. Clemons, R. G. Murphy, Elgin; Daniel Drummond, Petite Cote, Montreal, Que. Poultry Committee—J. E. Meyer, Kossuth; Robert H. Essex, Toronto. Reception Committee—John I. Hobson, J. C. Snell, Arthur Johnston, Henry Wade, and F. W. Hodson. Superintendent of Building—D. G. Hamner, Burford. Official Reporter—G. W. Green, Toronto. Judges in the Fat Cattle Department—Thos. Crawford, M.P.P., Toronto; Jas. Smith, Brantford. Reserve, T. O. Robson, St. Mary's. Referee, J. T. Gibson, Denfield. Judge in charge of the dairy test—G. E. Day, Guelph. Judges for Conformation in Dairy Class—D. Drummond, Petite Cote, Montreal, Que., and A. C. Hallman, New Dundee.

Judges for Sheep—Cotswolds, Leicesters and Lincolns—Jas. Gaunt, St. Helen's; Reserve, J. H. Grisdale, Ottawa. Shropshires, Southdowns, Dorsets and Merinos—Prof. Curtiss, Ames, Iowa. Oxford, Hampshires and Suffolks—George McKerron, Sussex, Wisconsin; Reserve, H. Arkell, Teeswater. Grades and Crosses—Prof. Craig, Ames, Iowa; Reserve, J. H. Grisdale, Ottawa. Judges for Swine—Chester Whites, Poland-Chinas, Duroc-Jerseys and Grades—T. Teasdale, Concord; G. B. Hood, Guelph; Reserve, C. W. Yapp, Brantford. Berkshires, Yorkshires, Tamworths, Essexes and Suffolks—W. H. Jones, Mt. Elgin; R. H. Harding, Thorndale; Reserve, C. W. Yapp. Sweepstakes—The two sets of judges on the classes. Bacon Classes—C. C. Wilson, Ingersoll; Chester Fearman, Hamilton; Jas. Leach, Toronto.

It was decided to hold the show December 5th to 8th, from Tuesday to Friday, inclusive. The place of holding the show was not decided at this meeting.

FARM.

Swamp Muck and Cost of Fertilizers.

To the Editor FARMER'S ADVOCATE:

SIR,—Prof. Frank T. Shutt was so kind as to give us the per cent. of nitrogen in swamp muck in your January 2nd number. As it is understood that phosphoric acid and potash are two other very important ingredients for manuring purposes, would he be kind enough to give us the per cent. of actual potash and phosphoric acid that there is in swamp muck?

In a letter published in your paper of January 16th, signed by "W. W.," re commercial fertilizers, he said he was, with other farmers, puzzling his brains on this problem. Mr. "W. W." cannot be raising the quantity and quality of crop he wishes for. It is good manure and thorough working of the soil, with other favorable conditions, that helps to make the quantity and quality of the grain, hay, etc. He says he has been getting a few quotations and circulars on different brands, but the price and per cent. of the different ingredients vary to quite an extent, making it difficult to know which is the best and most profitable to buy. Is Mr. W. W. familiar with the requirements of the crop he proposes to grow? If so, he can easily figure out which one of the different brands of fertilizers would be most suitable for his crop. He also thinks that the prices of a good many brands of fertilizers are too high. Fertilizers are only good as to quantity and quality of plant food they carry. It is very easy to figure out which is the cheapest now offered. The wholesale market prices of the different ingredients are as follows: Ammonia, 13c. lb.; phosphoric acid soluble in water, 6c. lb.; phosphoric acid, reverted, 5c. lb.; actual potash, 6c. lb. For fertilizers carrying 5% ammonia = 100 lbs. to the ton @ 13c. = \$13; 6% phosphoric acid soluble in water = 120 lbs. to the ton @ 6c. = \$7.20; 2% phosphoric acid, reverted, = 40 lbs. to the ton @ 5c. = \$2.00; 4% actual potash, 80 lbs. to ton, @ 6c. = \$4.80. W. A. FREEMAN & CO. Hamilton, Ont., Feb. 4th, 1899.

The Storage of Ice.

It was necessary to give information on the methods of storing ice which could be adopted with the least expense and the greatest success in keeping the ice available for use during the warm season. In the storage of ice in a cheap ice-house, the following points are essential to prevent waste by melting:—

1. Protection of the ice from currents of air. (These are likely to get in around the bottom of the building.)

2. Provision for the drainage of any water from melted ice.

3. Close packing of the ice, any spaces between the blocks being packed with pieces of broken ice when the ice house is being filled during cold weather.

4. Ventilation over the covering which protects the ice from the ordinary atmosphere.

Ice is melted only when the temperature is above 32° Fahr. The increase in temperature comes from some source external to the ice. When a lump of ice is left lying on the ground in warm weather, it is melted by the heat from the ground on which it lies, and by the heat from the air which surrounds it. To prevent that, insulating materials of different sorts have been used. An insulating material for this purpose is any substance which prevents, or almost wholly prevents, the passage through itself of the form of energy known as heat. Different substances conduct heat more or less rapidly, and are spoken of as being good conductors or poor conductors of heat. Whatever is a good conductor of heat would be a very poor insulating material; and a substance is a good insulator in proportion as it is a poor conductor or non-conductor of heat.

PROF. J. W. ROBERTSON.