and pasturage. The proposal is worthy of consideration. As the formation of a strong association with a long membership a return cargo, he suggests that the marbles of Connemara roll, we need not call attention , for all must feel and know that and other things mentioned in the letter

foreign live stock ander receive the trafferin store and fat cattle to this country, as distinct from the necessarily careful transit of well-bred, high priced animals for breeding purposes from the United Kingdom, continues to claim a heavy total of victims : During 1888, in the course of a voyage from Canada and United were killed immediately after landing, making a total of 2,945

Testimony in Favor of the Silo. Lour years experience in feeding corn ensulage to a herd of 100 or 150% ad of cattle and horses (mortic cows) has impressed me with the fact that for wintering stock of any kind the cost is reduced fifty per cent Corn salage fed to mile ws with wheat brain crushed outs or oil cake, or a mixture of all cacse, makes higher and better flavored butter (nearer a June flavor) than can be made from any dry feed, and I will add, more of it. Colts, work horses, and I brood mares do well on it. By doing well I mean that colls grow and keep in fine condition, work-horses do good work and keep in fine, healthy condition; and brood mares bring strong, healthy colts and have plenty of milk for them. Pigs do well but need middlings or some introgenous food to make a good growth . . l. . lusten, in O Indd Larmer,

## The Barberry Not Accountable for All Wheat Rust.

At the recent meeting of the Society for the Promotion of Agra cultural Science, held in Toronto, 1 rof. 1. C. Arthur corressed himself as being of the opinion that there was more than one species of fungus that was involved in producing what is commonly known as wheat rust, and that winter wheat would carry these newly-discovered species of red rust (Puccina rubies ryra) over the winter without the agency of the harberry. He found that all the rust that was collected over the State of Indiana was of this kind, while it was formerly supposed to be due to the attacks of the other variety (Pucinia gramini) that requires to have the harberry as a host. This leads him to think that most of the rust on this continent is of this new variety. and hence the burberry is not accountable for all our wheat rust.

finding that their location on Front St. in this city was not suit able for the retail trade, opposed extensive premises on King St. opposite the market, early in the year. They retain the old warehouse for their more the diplantment and office. Mr. W. H. Marcon, for their diplanth, now one of the company, has charge of the new sorry which is very handsome and commoduus, the fine large plate glass windows showing the goods to advantage. We that pointed out to its several new samples of opposite the market, 591, in the year. They retain the old fall wheat including the now famous "Cooklen Cross." have a very fine assurtment of bulbs. Their handsome fall catalogue of wheats, bulls and winter flowering plants is now reads. It contains information and instruction that is useful for the busy out-door worker. When in the city at the Exhibition do not fail to call.

Manitoba Exhibit at Our Fall Fairs. The exhibit of Manitoba products which is being collected by the Government: of that Province will, it is expected, arrive in Toronto the first week in September. The applications received this year for the Manitola exhibit to be sent to fail fairs in Ontario are far in excess of those of previous years, and owing to the importunities of exhibition secretaries, and the fact that many fairs are held on the same date, Mr. McMillan, the agent here, has sund it difficult to decide the various claims. In all probability the exhibit will be sent to fairs at the following places: Toronto, to be worse after drinking. One we were milking failed so much London, Ottawa, St. Catharines, Welland, Goderich, St. Thomas, Cayuga, Smithville, Acton, Fergus, Essex Centre, Otterville, Ridgetown, Renfrew, Helleville, Campbellford, Port Perry, Burham, Stayner, Beeton, Orangeville, Elmvale, and also to some points in Glengarry, Emittenac and Addington, which are not yet definitely decided upon.

Important Heeting of Shire Breeders and Importers. The Shire Horse Association, having been but formed a short while ago, holds its first regular meeting at London, Tues day, Sept. 10th. It is hardly necessary for us to urge it as the duty of all interested in the Shire horse industry to attend. We need only say that matters of great importance will be bought up for drecussion. Being but a new association, it is in urgenneed of the hearty support and full sympathy of those having an

decided advantage over the north of Scotland both in climate interest in this breed. As to the benefits that shall accrue from would answer very well, in addition to Carigeen or Trish moss; such would greatly facilitate the progress of the breed in this country and greatly aid its advancement also, as a whole. The A Loss that Might be Largely Prevented The governed by the number of its members and the attendance at effectiveness of the work of this association will be largely its anonal meeting, so everyone at all interested should not fail to attend and aid in every way the association in the good work. it has before it

What our Neighbors are Doing. Our Experimental States, 2,000 minuds were thrown overhourd, 16, were landed stations now employ over 450 experts in agricultural science and dead, and 1,113 were so much injured or exhausted that they practice, and are supported by a national appropriation of \$600,ike, to which the States add about \$125,000, \$725,000 a year that were either lost on the passage or so much injured as to I may seem like a large sum to expend annually for agricultural necessitate slaughter at the place of landing. The Society for experiments, but it is less than to cents for each of the 7,500,000 the Presention of Cruchy to Animals does not seem to consider farm workers of the country, less than Agreems for each of the that this is any call for its interference. London Lie Mak environment our population directly dependent upon agriculture for their support, and less than (14) cents for each of the books): excel our people who consume the products of our farms. The farming lands, farm implements, and live stock of the country are estimated to be worth \$12,000,000,000. The experiment stations cost us, therefore, about \$6.25 a year for every million dollars invested in agriculture. Or, reckoning the annual value of the products of our farms at \$2,200,000,000, we are now spending 43% cents for every thousand dollars worth of products in an attempt to increase the value of these products in future years. Larmers Bulletin, No. 1.

> Prize on Southdowns. The American Southdown Asserciation offers as a special prize at the American Fat Stock Show, Chicago, November 12/21, a solid silver cup, c isting \$50, for the best Southdown wether, on the following conditions: competing animals to be one and under two years old; to be pure bred, the progeny of recorded sires and dams, and to have been bred by and at the time of exhibition to be the property of the exhibitor. 2. The exhibitor to furnish at the time of entry a written statement, verified by affed out, giving the pedigree, age, weight, date, and manner of feeding, and other important facts connected with the management of each animal during the year a Competition shall be open to all, but no award shall be made except there be two or more competitors. 4. The party securing the prize may hold it in trust until the opening day of the first succeeding hat Stock Show, when it shall be placed in the hands of the American Southdown Association, to be again connected for. When taken the second time by the same exhibifor the prize shall then become his actual property.

Nursery Stock Salesmen Wanted, "Heing over thirty ears in the nursery business, the Chase Brothers Company A Change for the Better. The Steele Brow Co., I td., have earned for themselves a reputation that stands to their credit for merghtness in all their dealings, the outcome of an earnest desire to do well by those who patronize them. They have, under careful and experienced propagators and cultivator employed by them, about 200 acres of land under cultivation, and this is all needed to meet the demands of their many customers. Their head office is at Rochester, N.Y., with large branch offices at Chicago, Ill., and another at Collumne, Ont. They are always on the look-out for good, reliable salesmen to canvass for their nursery stock. The status of this firm, its magnitude, and the quality of their output should be inducements for those titted for this work to encage with them. As an industrian of the larsiness done by this firm, we need only cite the fact that for the Springs of 1884, 1855, and 1886, they planted a total of one million and sixty-seven thousand of apples, pears, plums, etc., etc., including all the smaller fruits, their advertisement for salesmen.

> Inflammation of the Throat. The following was reerved too late for classification. Editor Canadian Lity Stock and Farm Journal. Six, Will you he kind enough to let me know what is the matter with my cows and what I can do to cure them? They have slight coughing or choking spells, and run out their tongues and often bell-iw when these attacks come on. They have a difficulty in breathing, and the attacks seem in flesh that we stopped milking her. They have the same payme that they had last year, and have access to a small more of tophered land and have good well water to drink. At a-SCRIBER, Russell, Ont. Answer by F. C. Grennde, U.S. Guelet, Out. Inflammation of the threat appears to be the trouble from which the cows are suffering. It is very likely the result of clamp weather and cold nights, especially if the pasture is low lying. Give half an ounce of chlorate of potash three times a day in chopped cuts or Iran mash. Put mustard, prepared as for table use, on the skin surrounding the throat. Awad damp and cold by housing.

The Hilking Trials at Windsor." The cows were classed into three sections, according to live weight, as follows: For those over 1,200 pounds; second, for those weighing from 900 to

1,200 pounds, and third, for those under 900 pounds. Prizes were officed (1) for the cow of any breed or cross giving the greatest quantity of milk, containing not less than 12 per cent. solids and 3 per cent, butter-fat, and (a) for the cow giving the greatest weight of butter-fat, the yield of milk to be not less than 25 pounds per day. The first prize for quantity of milk in the heavy class was won by a Shorthorn cross, which gave 61 Ibs. 4 ozs. in two milkings. In the middle-weights, by another cross-bred cow, giving 51 lbs. 4 ors, of milk; and in the lightweights, by a Jersey, which gave 47 lbs 12 ozs, of milk. In the class for amount of butter fat, the winner of the first prize for heavy cattle was a Guernsey, which gave in two milkings 46 lbs. 12 ozs. of milk, violding 2 as lbs. of butter-fat. A Guernsey cow was also first in the middle weight, with 10 lbs of milk, yielding 1.78 lbs. of butter fat , and in the lighter cattle a Jersey won the first prize, giving 48 lbs. 8 ozs. of milk, yielding 2 24 lbs. of butter lat. The Pairs.

Meeting of the Dominion Sheep Breeders' Association. In the August issue of the lot KNAL we appropried in part the programme of this meeting. The programme is now completed. The meeting will be held in the City Hall, London, on Thursday evening, Sept. 12th. The following persons will read papers on the prospective subjects named. The Proper Classification of Sheep at Fors, by J. C. Snell, Edmonton, The Value of the Silo and Soiling Crois for Sheep, by John S. Pearce, London. The Proper Method of Getting up Fleeces for Market. by Ald, John Hallam, Toronto, What a Canadian Sheep-raiser can Learn in England, by John Campbell, jr., Woodville; Protecting the Flocks from the Dogs, by John Dryden, M.P.P., Brooklin, and David Nichol, Cataragui; The Sheep for the Farmer, by Mungo McNab, Cowal. Mr. Mortimer Levering. of La Fayette, Indiana, Secretary of the American Shropshire Association, will be present and will address the meeting on the advisability of joint American and Canadian records for sheep, The sweepstakes silver plate, given by John S. Pearce, of London, to be competed for at the Provincial Exhibition, will be presented to the winner at the close of the meeting. Hon, Chas, Drury, Minister of Agriculture, is expected to be present and will deliver an address.

Butter-Waking Without Churning. Australian mores give a full description of a new process of butter-making without churning, which has been on exhibition for about two months in Australia. The butter globules are separated by passing air through the cream, and at least two advantages are claimed for the process. In the first place, there is a great saving of labor, and secondly, it is said the butter is purified by the circulation of air through cream tainted by strong fodder or by being kept too long. In a recent trial three strong glass vessels were provided for the cream, large enough to make about 80 pounds of butter at one time. To obtain the air-power vater is run into an empty tank, forcing the air therein through a pipe into a second tank filled with water, with which some unknown material is mixed frepurify the air passing through it. After being forced through this intermediate tank the air enters each of the glass vessels near the liottom and rises through the cream. escaping, presumably, by a valve at the top. In from twenty to sixty minutes, according to the condition of the cream, the state of the weather, and other circumstances, the butter rises to the top of the vessels, and the butter-milk is drawn off from below. No details are given as to the proportion of butter to milk, or as to the percentage of butter-fat left in the butter-milk. These points must be investigated before the process can be regarded as of any value. - The harmer.

Live Stock Importations .- Since May 21st, 1889, the following list of stock have arrived at Quebec cattle quarantine: May 22, per steamer Sannation, six bulls, ninety-one beifers (Aherdeen-Angus), for Union Ranch Company, Okotoks, N.W. T.; May 20, per steamer Ontario, one boar, six sows (Yorkshire), for Wm. Davies & Son, Toronto, Can.; June 28, per steamer Assyrsan, one bull, two beifers (Norman breed), for Hon. L. Beauhin, Montreal, Can.; July 2, per steamer Sarnia, one Hereford bull, for Dawes & Co., Lachine, Que.; July 7, per steamer Sannation, one hull, nineteen heifers (West Highlanders), for Mr. G. D. McKay, Qu'Appelle, N.W.T.; July 1, per steamer Ontario, two hoars, six sows (Yorkshire), for Green Bros., Innerkip, Ont.; July 17, per steamer Lake Winnipeg, one rain, thirty-two ewes (Shropahire), for James P. Phin, Hespeller, Ont.; July 18, per steamer Toronto, one Shorthorn bull, ic hoar, two sours (Herkshire), two rams, twenty ewes (Shri shire), for Dr. Bernardo, N.W.T.; four rasss, seve shire), one ram, five ewes (Dorset), for John Pickerin Pontiac, Mich.; July 23, per steamer Montreal, 105 Shropal for John Dryden, Brooklin, Ont.; twenty-five Shrepal Robert Miller, Pickering, Out.; fifty-five Shropshires for John Campbell, Woodville, Ont.; Afteen Cotywolds, twenty-set Berkshires for J. C. Snell, Edmonton, Out.; thirty Cotswelds. fourteen Berkshires for James Main, Boyan, Ont.; eight Southdo was for John Jackson, Abington, Ont.