

conditions. Of the 527 patrons visited, 296 left their cream in the cellar, 100 had a milk house, 16 a refrigerator, 11 water and ice, and 12 kept the cream in pans. In enquiring as to the washing of the separator Mr. Smith found that 161 washed once a day and 303 twice a day, 63 not stating how often they washed their machines.

Mr. McFetters and Mr. Almonte, whose patrons Mr. Smith had visited, expressed their appreciation of the results of his work, and a resolution was unanimously carried asking Mr. Hens to do all in his power to get all the money that he could to further this work among the patrons next season.

(Continued next week)

The Feeding of Roots

(Concluded from page 5.)

Sanborn of the Utah Experiment Station, investigated the influence of roots upon the carcass of the animal. In his summary of results he makes the following statements: (1) The live weight gain for cattle and sheep was greater, and for hogs less, when fed on roots. (2) The dressed weight of cattle, sheep and hogs showed in every case greater shrinkage for those fed on roots. (3) The root fed animals contained more blood and necessarily more water in the blood. (4) The root fed steers had heavier vital organs. (5) The fat was always less for the root fed animals.

To summarize the whole question it may be said that corn silage is a cheap and efficient substitute for roots in some cases, but for certain classes of stock, and especially in the case of young animals, it is difficult to find anything that will take the place of roots.

The Maritime Winter Fair

The centre of interest at the Maritime Winter Fair, held at Amherst, N.S., this year, was the dairy test. Other departments of the fair, in number of entries at least, have stood still or actually retrogressed. But the dairymen are there in increasing numbers every year. In 1911 there were 87 cows entered in the test and this year they reached 90. Holsteins and their grades were considerably in the lead in number of entries, but Ayrshires, Jerseys and Guernseys

were also well represented. Short-horn cows were on hand, too, but did not make much of a showing in comparison with their dairy bred rivals.

Ayrshires were exhibited by McIntyre Bros., Sussex, N.B.; Andrew McCrae & Sons, Essex Royalty, P.E.I.; Retson Bros., Truro, N.S.; and Chas. Symes, and F. S. Black, Amherst. Milkmaid 7th, owned by McCrae, was champion of the breed, and also sweepstakes animal, she producing 188 2 lbs. of milk and scored 340 points in the 72 hours of the test. For some time this cow was world's champion two-year-old in Canadian Record of Performance. F. S. Black won first in three-year-old, two-year-old and yearling classes.

HOLSTEINS.

The usual old-time exhibitors were on hand in the Holstein classes: S. Dickie & Son, Central Onslow, N.S.; Logan Bros., Amherst, N.S.; R. L. Hicks, Dalhousie, N.B., and W. Harding, Wellfleet, N.B. Dickie won first, second and third on cows, scoring 227, 225 and 211 points. The Logan was fourth and Hicks fifth. Dickie was again first in three-year-olds and Logan won in the two-year-old and yearling classes.

Maritimes have put up the strongest Guernsey classes of any fair in Canada. Two breeders, H. A. Dickson of Onslow, N. S., and Roper Bros., of Charlottetown, P.E.I., were the mainstays. Dickson had rather the best of the contest, winning first on cow, three-year-old and yearling. H. S. Price & Sons and Baker & Son competed in the Jersey classes. Baker was second and third on cows and pipes won the rest of the prizes where he entered.

Grades were shown by Fowler Bros., Wm. Keilor and W. M. Boomers. A cow owned by Boomers was first with a score of 209 points. Keilor was first in all other classes, winning the T. Eaton prize for the best herd of "brade cows."

THE BEEF EXHIBITS.

Beef cattle entries have been on the decline at Amherst ever since the first inception of the fair. A few exhibitors this year brought their cattle out in the best of fit, but the majority of the animals looked as if they had come without any preparation whatever. C. A. Archibald, whose Shorthorns usually do much to redeem the beef exhibit, was missed from the ring this year. The silver cup for the best Shorthorn in aged classes was won by R. A. Snowball, Chatham, N.B., and the cup for the best grade animal, any age, went to Fowler Bros., Amherst, P.E.I., N.S.

In the sheep and hog classes the animals were brought out in excellent fit, and entries were a good average. The majority of the hogs were from Prince Edward Island. The Island Berkshires in particular, were a fine lot.

The poultry show was strong in every department. Geese and turkeys showed the most improvement over previous years. Of the 1,000 entries in live poultry, Rhode Island Reds were most numerous, with Plymouth Rocks and Wyandottes close seconds. The grade of poultry was an unusually good exhibit, and Maritime poultry men doubt if a better exhibit can be found anywhere in Canada.

Fruit and honey was as usual a splendid advertisement to the adaptability of the Maritime Provinces to these two industries, agriculture and fruit growing.

More and more farmers are finding their way to the Maritime Winter Fair and the executive believe that from the standpoint of educational work done, the fair this year is a great encouragement for them to go ahead and make still further improvements in years to come.

Toronto Fat Stock Show

The Third Annual Fat Stock Show held at the Union Stock Yard, Toronto, was a much more extensive affair than the first two shows, not only in the number of animals exhibited, but in the attention that the show received from stock men throughout the province. Were a more suitable place provided for judging, this show would stand a much better chance to become popular with fair goers. As it is now, only a few can see the classes being judged in the narrow passage-way, and this, in the management of the show actually get the crowds that they want, the most of them would have to go away disappointed.

As usual, Jas. Leask of Greenbank, had the grand champion steer, winning with the same animal that took third place at the International Live Stock Show at Chicago the week previous. There were eight car loads of export steers, 14 car loads of butcher steers, and 10 car loads of butcher heifers competing. The feature of the car load exhibit was the heavy cattle shown by Groff & Downie of Carleton Place, Ont. Their exhibit was composed of choice grade Herefords. A carload of Aberdeen Angus steers shown by J. D. Larkin, Niagara-on-the-Lake, also attracted much favorable comment.

In all, there were over 165 entries. Among the other exhibits were four car loads of sheep, 10 car loads of lambs, five pens of three sheep each, 16 pens of lambs, five car loads of hogs and 16 pens of three hogs each.

A good stock bed is as much appreciated by the cow as by the cow's owner.

Did you notice how Mr. Tamblin saved many miles of walking a year by putting a door through the rear end of his barn as told in *Farm and Dairy* of Dec. 5th? Have a look around your own barn. A similar move might be profitable.

The four magnificent silver cups donated to the general competition at the Guelph Winter Fair, last week, by the Caldwell Feed Co., of Dundas, Ont., were won by J. E. Brethour & Nephews, Barford, Ont., for best bacon hog at the show; D. and D. J. Campbell, Woodville, best sheep in show; John Lowe, Elora, best steer; and the fourth cup went to John Boag & Son, Queensville, Ont.

Kingston!

Wednesday, Thursday and Friday
January 8th, 9th and 10th, 1913

This will be the Place and
Date of Meeting for the

Thirty-sixth Annual Convention

of the

Eastern Ontario Dairymen's Association

This Convention will give you much information by Recognized Authorities. Plan to come and profit from what you will learn at the Convention. Bring your boys.

Farmers' Day, Jan. 8th
Cheese & Butter Makers' Day, Jan. 9th

Special Railway Rates. Write the Secretary, Eastern Ontario Dairymen's Association, for full particulars. Meet with the other "boys" at the Convention this year!

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