

work for the association has been done by the co-operative committee. A circular was issued, giving a full list of firms handling such supplies as spraying materials, pumps, hose, chemicals and so forth, together with wholesale prices for the same. This was gotten out with a view to lessening the cost of production to fruit growers connected with co-operative fruit associations. The committee investigated, also, various systems of bookkeeping for co-operative associations. It is hoped that some simple scheme will be adopted at an early date.

A pamphlet was issued, giving the names of co-operative shipping associations in the province and their secretaries and the probable output for 1908. This was circulated at the Winnipeg association and to various fruit dealers and other parties applying for same.

A recommendation was made to the department of agriculture that an instructor in barrel packing be appointed to visit various associations. This recommendation was adopted and Mr. Backus, of St. Catharines was appointed to look after this work. In connection with the spraying regulations carried out by the department of agriculture, the committee assisting in drafting a set of rules for this work which would be in advance of those of 1907. The grants were to be made payable on the basis both of acreage sprayed and the efficiency of the spraying.

Among the other reports read were those of the committees on "New Fruits," "Transportation" and "The Toronto Fruit Market." Some of these will be found in other columns of this issue. The others will appear later.

#### APPLE PACKING

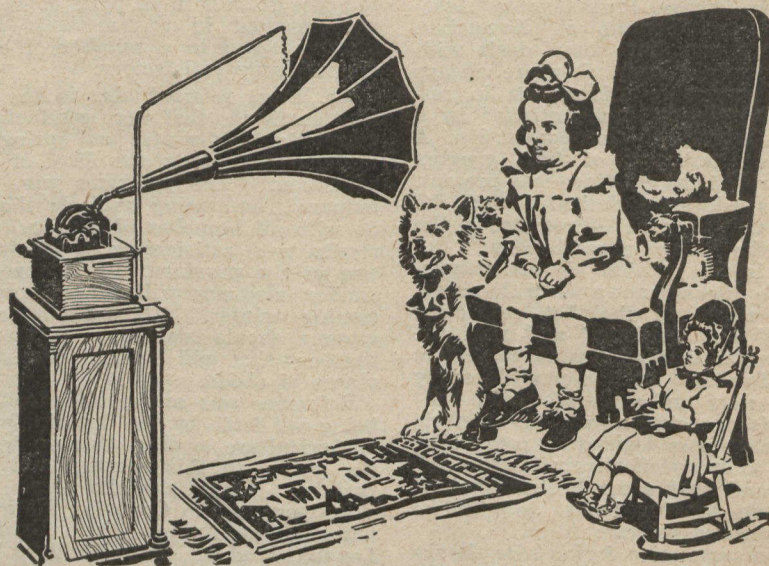
"Apple Packing and Packages" was the subject of an address by Mr. Elmer Lick, of Oshawa. He said that one of the problems of packing is to get men who are reliable and capable of doing the work. The Oshawa Co-operative Fruit Growers' Association, of which Mr. Lick is manager, is doing good work in its neighborhood in educating farmers and fruit growers in the matter of proper packing and grading. While a few years ago these operations were performed indifferently, great improvement is now noticeable. "One can pack more apples in a better way in a fruit house than in the orchard," remarked Mr. Lick, "and the cost is about the same. An essential is to have good barrels, well nailed. The heads should be of basswood. The hoops should be driven tightly. For each liner, only five nails are necessary and two of them should be clinched. The staves should be thick. When filling, place the barrel on a level place. Have the face right, even or with smaller rows around outside. Fill evenly and have the apples, as far as possible, interspersing with each other rather than directly one on top of another. This system does not bruise the fruit so much. Rack the barrel occasionally when putting in the fruit. When packing in boxes it is a good idea to place a wire around each one to strengthen it."

"Tender Fruit Packing and Packages" was discussed by Maj. H. L. Roberts, of Grimsby, and "Markets" by F. J. H. Pattison, of Winona. Both of these addresses will be reported in full in a later issue.

A number of other valuable addresses were delivered. "Prevalent Fungous Diseases of Ontario orchards," particularly fire and twig blight and peach yellows, were discussed by Mr. M. B. Waite, of the United States Department of Agriculture. A portion of this paper appears as the introductory article of this issue of THE CANADIAN HORTICULTURIST. The subjects of the other addresses are "The Apple Maggot, Blister-

Leaf Mite and Apple Tree Canker," by Prof. Wm. Lochhead, Macdonald College; "Observations on the Use of Fertilizers in German Orchards," by Prof. R. Harcourt, O. A. C., Guelph; "Results of Orchard Surveys in New York State," by Prof. Chas. S. Wilson, Cornell University; "The Ship-

ment of Early Apples and Tender Fruits to Great Britain," by J. A. Ruddick, Ottawa; and "The Western Provinces as an Outlet for Our Fruit," by J. W. Crow, O. A. C., Guelph. All of these papers will appear in subsequent issues of THE CANADIAN HORTICULTURIST.



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