

recommended as a substitute for Paris Green, is explained and directions for the preparation of the spraying fluid furnished.

Sixty-five samples of well waters from farmers' homesteads have been examined during 1895 and are here reported upon. The results show a most unsatisfactory condition of affairs, a very large proportion of the wells evidently receiving drainage of a pernicious character.

This report concludes with a detailed account of the composition of Canadian cereals examined at the World's Columbian Exposition, at which Mr. Shutt acted as a professional juror in chemical investigations. This investigation marks the first systematic and scientific enquiry into the composition of Canadian grown grains. The excellent qualities of the wheat grown in Manitoba and the North-West Territories are depicted, the percentage of albuminoids being very high, coupled with good milling properties. Data regarding Canadian oats, barley and buckwheat are also given.

We learn that copies of this report may be obtained by applying to Mr. Shutt at the Experimental Farm, Ottawa.

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THE ANNUAL REPORT OF THE ENTOMOLOGIST AND BOTANIST  
TO THE DOMINION EXPERIMENTAL FARMS, DR. JAMES  
FLETCHER.

This report presents an interesting review of the insects and plants which have particularly required attention during the past year. It naturally treats principally of agricultural pests, but farmers are not the only ones that can benefit by a perusal of its contents. Students of insects will find many new facts recorded here concerning insects belonging to various orders. The Amputating Brocade Moth occurred in enormous numbers in Western Ontario, and we learn that this year the caterpillars from eggs laid by these moths are working serious havoc in the grain fields. Cabbages and Turnips were injured



in certain districts by plant lice. Among the new attacks treated of we note the following : A rather severe outbreak was that of the Carrot Fly, *Psila rosæ*, at Rothesay, N.B. In pastures on Cape Breton Island, the Cottony Grass-Scale, *Eriopeltis festuæ*, was very numerous, but was much reduced in numbers by parasites. In Essex County, Ontario, the Black Peach aphid required treatment ; the Carpet Beetle, miscalled the "Buffalo Moth," appears to be spreading in Canada, and it will be well for all housekeepers to procure Dr. Fletcher's report and study it carefully. The different subjects are well arranged, and a good index makes them easy to refer to. The divisions of the report are : Insects Injurious to Cereals, Fodder, Plants and Fruits ; Household Pests ; and a report on the Apiary, including reports from Mr. John Fixter, who has the practical management of the bees on the Central Experimental Farm, and from Mr. Shutt, upon certain brands of "Foundation." The report closes with a well illustrated article on Some Specially Noxious Weeds.

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THE ANNUAL REPORT OF THE HORTICULTURIST TO THE  
DOMINION EXPERIMENTAL FARMS, MR. JOHN CRAIG.

This is contained in an illustrated pamphlet of sixty pages. The following are some of the more important topics discussed in the letter of transmittal : The development of the fruit industry in different parts of Canada ; the shipment of perishable fruits to Britain ; cranberry culture.

In the body of the report, considerable space is devoted to an article, didactic in character, bearing upon apple culture.

This will be found to be of much service to orchardists. The care of orchard trees and the handling of the product are matters of increasing importance to Canadian fruit growers. Some of the new and valuable varieties are described and figured. These include seedling, as well as named varieties.



Fletcher, James. 1896. "Annual Report of the Entomologist and Botanist to the Dominion Experimental Farm." *The Ottawa naturalist* 10(3), 62–63.

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