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SPRAYING DEMONSTRATIONS IN ONTARIO

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FOLLOWING the request last March of the Ontario Fruit Growers' Association that the Minister of Agriculture should place a number of power sprayers throughout the province, this matter was promptly taken up by the Department, and after some investigation two machines were placed in operation at Meaford and Trenton respectively. Both these points are centers of large apple growing sections.

According to the report of the Bureau of Industries for 1903. Grey county, in which Meaford is situated, is credited with 352,894 apple trees over 15 years of age and 200,000 under that age. Northumberland county, in which the other machine is operating, possesses 366,381 old trees and 288,669 young ones. These two counties, with the addition of Huron, headed the list for production during 1903, showing a total crop of over 2,000,000 bushels each. It follows that these sections are of great importance to the apple industry, and anything that the Department of Agriculture can do to improve the quality of the fruit shipped therefrom will materially assist those farmers who are striving to make this branch of agriculture successful.

As power spraying machines are of comparatively recent introduction into Canada it was thought wise to test at least two different types this year. There are, perhaps, four types altogether in use in the Dominion using as motive power the gasoline engine.

geared direct to a pump, the expansion of carbonic acid gas, the expansion of compressed air, and the wheel-driven pump respectively. Many of these are in operation throughout Ontario, especially in the Niagara district, where the presence of the terrible San Jose scale compels the grower to spray or uproot his trees.

Readers of *The Horticulturist* are familiar with the well known Wallace, Spramotor, and Niagara Gas machines, which have been illustrated and advertised so frequently in these columns. Each has its strong admirers, and each, I believe, is doing good work. At Meaford one of the Niagara Gas machines, at present manufactured in Buffalo, was placed, while the Spramotor Company, of London, supplied the gasoline outfit in use at Trenton.

The gas machine, a cut of which appears as frontispiece, is run by the expansion of liquid carbon gas. The main tank, which holds the spraying mixture, is closed absolutely tight when filled, and is supplied with agitator, pressure gauge, etc., on top. The gas is purchased in iron cylinders containing 25 or 50 pounds under high pressure, and when released slowly into the large tank containing the spraying mixture forces the latter out from the nozzles in a fine mist. By releasing more or less gas the pressure can be varied to suit the will of the operator, and any number of nozzles may be used.

The Spramotor machine at Trenton is