SOME PLANT DISEASES IN HOME GARDENS IN THE TORONTO AREA, 1973'

G.B. Orlob,² A. Burnett, E. Kidd, and R.F. Cerkauskas³

During a research project on minimizing the use of chemical pesticides in the home garden, pests, diseases, and weeds occurring in 25 gardens in and around Toronto, Ontario, were brought to our attention by participating gardeners. In addition, a few other gardens were visited and the diseases present recorded. Considering the pronounced site diversity that characterizes the home garden only a small proportion of all diseases that affect ornamentals, vegetables, and trees were found.

As a rule home gardeners were more concerned about pest insects and weeds than about plant diseases. Unless diseases were severe they had to be pointed **out to** the gardener. Even if diseases were recognized, gardeners experienced great difficulty in diagnosing them. Plant diseases were not a serious problem in gardens we have seen regardless of whether or not controls were applied.

In the following table plant pathogens are listed as they were observed throughout the growing season. Virus diseases are not listed because of the difficulties involved in proper identification. Bacterial diseases were recorded only if they could be identified through characteristic symptoms. Fungal diseases were identified by symptoms and spore characteristics.

Host	Pathogen	Disease rating/ occurrencet
Hollyhock	Puccinia malvacearum	Mod/Sp
Tulip	Botrytis tulipae	Mod/R
peach	Taphrina deformans	Sev/W
Plum	Dibotryon <i>morbos</i> um	S1/R
Maple	Rhytisma acerinum	s1/sp
Almond	Monilia laxa	sl/sp
Apple	<i>Venturia</i> inaequalis	Tr-Sev/W
Onion	Peronospora destructor	Tr/R
Euonymus; Forsythia	Agrobacterium tumefaciens	S1/R
Rose	Sphaerotheca pannosa	Tr-Mod/Sp
Currant	Sphaerotheca mors-uvae	S1/R
Rhubarb	Ascochyta rhei	S1/R
Tomato	Alternaria tomato	S1/R
Maple	Gloesporium apocryptum	S1/R
Rose	Diplocarpon rosae	Tr-Sev/W
Phlox: Zinnia	Erysiphe cichoracearum	Mod/sp
Grape	Gui <i>gnardia bidwellii</i>	sl/Sp
Grape	Plasmopara viticola	sl/sp
Hawthorn	Pabraea thuemenii	Mod/Sp
Lilac; Viburnum	Microsphaera penicillata	Mod/W
Chrysan- themum	Septoria chrysanthemi	Mod/R
Sunflower	Puccinia helianthi	S1/R

Table 1. Fungal and bacterial pathogens detected in
home gardens in the Toronto area 1973

Tr = trace, Sl = slight, Mod = moderate, Sev = severe.

[†] R = rare, Sp = spotty, W = widespread.

Supported by a grant from the Ontario Ministry of the Environment.

² Department of Botany, University of Toronto, Toronto, Ontario M5S 1A1.

'Undergraduate Students, University of Toronto.