

FUNGAL AND BACTERIAL DISEASES OF CRUCIFERS AND CUCURBITS¹ IN WESTERN ONTARIO IN 1967

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Surveys of the diseases of vegetable crops in southern, eastern and central Ontario in 1968 were published by Reyes et al. (1,2). A similar survey

was carried out in Western Ontario, but this report deals only with the diseases of crucifers and cucurbits in this region.

Table 1. Diseases of crucifers and cucurbits in western Ontario in 1967

Crop	Disease and cause	Prevalence* and county
<u>Crucifers</u>		
Cabbage	Black rot (<u>Xanthomonas campestris</u>)	Sl. 1/7** fields (Halton)
	Clubroot (<u>Plasmodiophora brassicae</u>)	Mod. 1/7 fields (Halton)
	Wirestem (<u>Rhizoctonia solani</u>)	Tr. 1/1 field (Grey) sl. 1/1 field (Peel)
	Yellows (<u>Fusarium oxysporum</u> f. <u>conglutinans</u>)	Sl. sev. 3/7 fields (Halton), tr. 1/1 field (Peel)
Cauliflower	Damping-off (<u>Pythium</u> spp., <u>Rhizoctonia solani</u> , <u>Fusarium</u> spp.)	Tr. 1/5 fields (Halton)
	Drop (<u>Sclerotinia sclerotiorum</u>)	Sl. 1/5 fields (Halton)
	Yellows (<u>Fusarium oxysporum</u> f. <u>conglutinans</u>)	Sl. 1/5 fields (Halton)
<u>Cucurbits</u>		
Cucumber	Angular leaf spot (<u>Pseudomonas lachrymans</u>)	Mod. 1/3 fields (Huron), sev. 1/1 field (Simcoe)
	Bacterial wilt (<u>Erwinia tracheiphila</u>)	Tr. 2/3 fields (Huron), Sev. 1/1 field (Simcoe)
	Wilt (<u>Fusarium</u> spp.)	Sl. 1/2 fields (Halton)
Muskmelon	Leaf blight (<u>Alternaria cucumerina</u>)	Sl. 1/1 field (Halton)

* Tr. (trace) = 1-10% of plants affected in the field; sl. (slight) = 10-30%; mod (moderate) = 30-60%; sev. (severe) = 60-100%.

** Number of fields in which the disease was found/number of fields inspected.

The counties surveyed were Grey, Halton, Huron, Peel, and Simcoe. The diseases were diagnosed and rated as in the two earlier reports (1, 2). Bacteria were identified on the basis of their growth on agar media and by the symptoms they caused on the host plants.

Cabbage had the highest number of diseases and muskmelon the lowest (Table 1). Most of the dis-

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eases were caused by fungi. With the exception of cucumber wilt caused by *Fusarium* spp., all the diseases encountered were reported in the other surveys (1, 2).

Literature cited

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