

Table I. Effect of peach rootstock variety on the growth and cankering of Dixired.

Rootstock variety	Increase in Cross Sectional Area (sq. cm.)				Average No. Cankers per tree
	1956	1957	1958	1959	
Kalamazoo.....	12.01	21.78	27.87	21.24	34.8
Lovell.....	9.85	20.41	25.64	27.60	29.4
Sheprak (apricot).....	12.20	18.35	23.97	27.10	23.0
Lemon Free.....	10.39	27.49	15.67	24.39	22.4
Yunnan.....	18.47	23.54	18.14	7.95	18.3
Gold Drop.....	10.35	17.84	24.30	20.50	36.5
Rutgers Red Leaf.....	12.33	20.63	24.79	10.57	10.3
Valiant.....	10.19	18.90	19.75	21.89	17.0
S37.....	11.73	18.22	17.08	18.26	16.7
Golden Jubilee.....	8.19	14.99	19.47	21.38	28.0
Secord (apricot).....	10.81	16.28	15.19	19.43	17.7
Banner.....	8.84	16.99	14.77	19.76	29.4
Average.....	11.45	19.62	20.55	20.01	

ennial canker. The maximum reduction in canker was obtained with Dixired budded to seedlings of Rutgers Red Leaf, and the difference was statistically significant at the 5% level when compared to the means recorded for Gold Drop and Kalamazoo seedlings. Although differences were not significant at the 5% level, there was an indication that Valiant, Secord, S37 and Yunnan rootstocks conferred some resistance to susceptible scion varieties.

No light can be shed at present on the nature of the rootstock influence. However, the understock would appear to function either through earlier hardening of exposed tissues or through production and translocation of an unknown chemical protectant.

The combined attributes of canker resistance, the red foliage detector and the adequate tree growth and vigor encourages increased interest in nursery propagation of peach on the Rutgers Red Leaf seedling rootstock for orchard plantings in southwestern Ontario.

#### Literature Cited

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2. Koch, L. W. The peach replant problem in Ontario. Symptomatology and Distribution. Can. Jour. Bot. 33: 450-460. 1955.
3. Willison, R. S. Peach canker investigations. I. Some notes on incidence, contributing factors and control measures. Scientific Agriculture 14: 32-47. 1933.
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#### Leo Klein Memorial Fund

The New York State Agricultural Experiment Station Club, at Geneva, New York has established a memorial fund to provide a means by which friends of the late Leo Klein can help in the education of his surviving seven children. Anyone wanting to contribute should make their checks out to the Klein Memorial Fund, and send them to the Experiment Station Club, Geneva, New York.