

Glenn Dale 6 was outstanding in leaf bud hardiness. This selection was also found superior in hardiness to all sweet cherry varieties in an artificial freezing test which comprised 94 sweet cherry varieties and selections. Glenn Dale 6 is a "wild" cherry with small fruit, but could be considered as a hardy framebuilder for sweet cherries.

The varieties classified as moderately hardy in Table 1 were repre-

sented by young trees in our plantings and their fruit has not been sufficiently evaluated at Summerland.

Of the varieties grown commercially in B. C., Lambert, Royal Ann, Sam and Van proved to be hardier than Bing and Deacon. The new Summerland introduction, Compact Lambert, was hardier both in leaf and fruit buds than Lambert, although less hardy in bark and fruit spurs.

Comparative Resistance to Verticillium Wilt in the Strawberry

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Verticillium wilt is becoming an increasingly important disease in the strawberry. Several promising varieties released in recent years appear very susceptible to this disease. Serious outbreaks of the disease occurred in replicated variety trials planted at Lafayette, Indiana in both 1957 and 1964. A relative rating of resistance for each variety or selection was determined from the percentage of dead plants of the thirty mother plants set for each trial. These data were combined with a similar evaluation made in New Jersey** from 48 plants and are presented in Table 1. Only the New Jersey data involving varieties planted at Lafayette in either of the two years are included. When a variety was present in more than one trial, mean values were used in the ranking of varieties. However, the mean percentage of dead plants was lower in the Lafayette than in the New Jersey test.

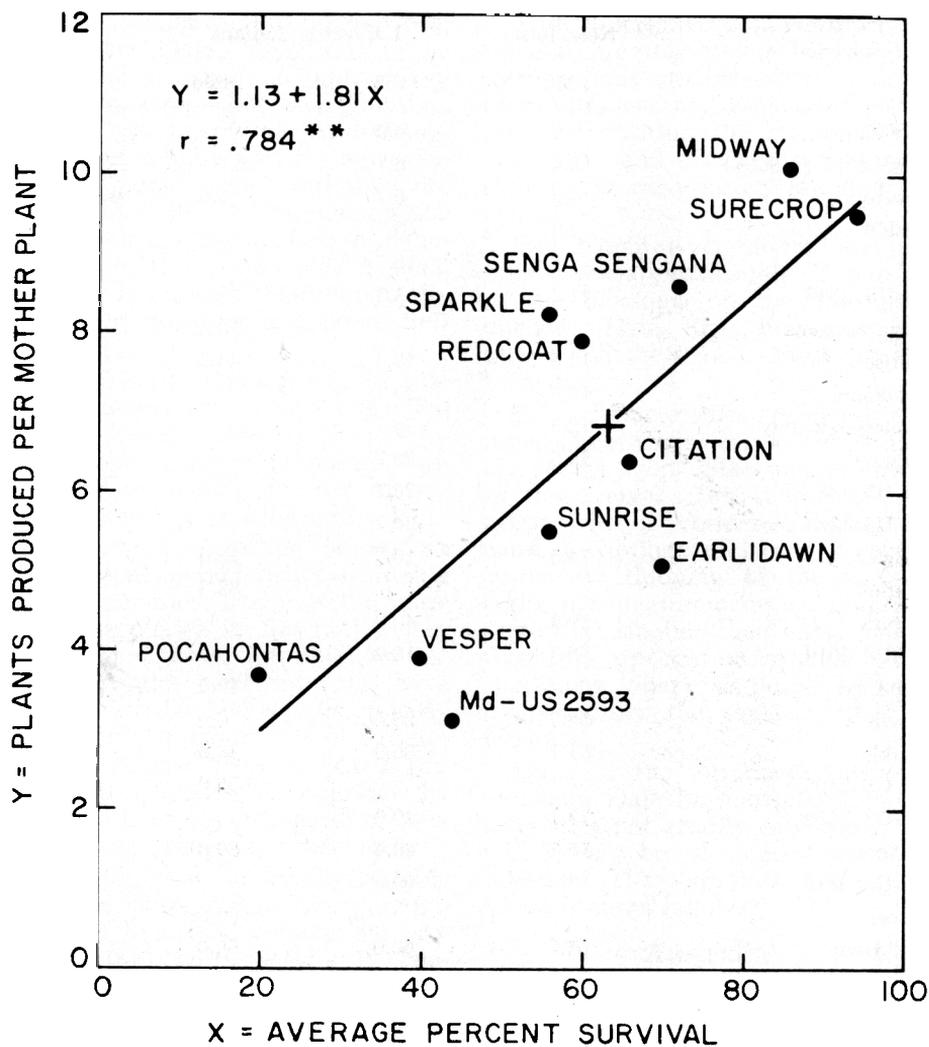


Fig. 1. The relation of runner plant production and percent survival from *Verticillium* wilt in strawberry, Lafayette, Indiana, 1965.

Table 1. Resistance Rating of Strawberries Varieties and Selections to Verticillium Wilt.

Variety or selection	Percent Dead			Average
	New Jersey		1958	
	1958	1965		
Vermilion	0.0	0.0		0.0
Howard 17 (USDA)	2.4	6.7		4.6
Surecrop	6.3	6.7	6.6	6.5
Catskill	0.0	16.7		8.4
Erie		16.7		16.7
Md-US 2555	21.7	13.3		17.5
Senga Sengana			18.0	18.0
Sunrise	13.0	13.3	43.3	23.2
Blakemore	19.6	26.7		23.2
Tennessee Beauty	12.5	36.7		24.6
Redglow	25.5	26.7		26.1
Md-US 4333		26.7		26.7
Md-US 3919		26.7		26.7
Midway	74.5	10.0	13.3	32.9
Citation			33.3	33.3
Empire	29.2	40.0		34.6
Md-US 2610	58.3	13.3		35.8
Red Coat			40.0	40.0
Armora	58.3	23.2		40.8
Sparkle	51.1	30.0	43.3	41.5
Md-US 2593			56.6	56.6
Md-US 2359	77.1	40.0		58.6
Pocahontas	56.3	43.4	80.0	59.9
Md-US 2519		60.0		60.0
Vesper			60.0	60.0
Earlidawn	95.7	60.0	30.0	61.9
Md-US 4192	100.0	27.0		63.5
Jerseybelle	70.2	60.0		65.1
Dixieland	89.6	46.6		68.1
Md-US 3961	83.3	53.4		68.4
Average all entries	45.0	29.0	38.6	36.8
Average six entries common to all locations	49.5	27.2	36.1	37.6