

768 **Supplemental Table 4.** Conditional independence test for Susceptibility to non-R6-virulent strains of *Podosphaera macularis*

Statistic ^a	Mildew may	First spray date	Interval	Degree centrality	Synthetic	Nonsynthetic	Mixture	Disease incidence	Annual Costs
Pruning	0.11 (<0.001) ^b	-0.21 (<0.001)			0.12 (<0.001)	-0.16 (<0.001)		0.11 (<0.001)	
Susceptibility to non-R6 strains	-0.01 (0.53)			-0.16 (<0.001)	0.12 (<0.001)		-0.14 (<0.001)	-0.29 (<0.001)	
Area nonR6									
Mildew may			0.04 (0.16)	0.22 (<0.001)	0.01 (0.63)	-0.04 (0.08)	0.18 (<0.001)	0.41 (<0.001)	
First spray date			-0.24 (<0.001)		0.09 (0.001)				
Interval									-0.12 (<0.001)
Initial interval after change			0.28 (<0.001)		0.08 (0.002)	-0.16 (<0.001)		0.07 (0.007)	
Degree centrality						0.40 (<0.001)		0.27 (<0.001)	0.12 (<0.001)
Synthetic			-0.21 (<0.001)	0.07 (0.009)				0.29 (<0.001)	0.26 (<0.001)
Nonsynthetic			-0.34 (<0.001)						-0.18 (<0.001)
Mixture			-0.36 (<0.001)	-0.03 (0.23)					
Disease incidence									0.27 (<0.001)

769 ^a linear correlation: Pearson's linear correlation based on the Student's t test.

770 ^b Parentheses are p-value.