

713 **Table 3.** Parameters learned for a conditional Gaussian Bayesian network for annual cost of fungicides applied to hop cultivar with
714 varying susceptibility to R6-virulent strains of *Podosphaera macularis*^a

Statistic ^b	Pruning	Susceptibility to R6-virulent strains	Area R6	Mildew May	First spray date	Interval	Initial interval after change	Degree centrality	Synthetic	Nonsynthetic	Mixture	Disease incidence	Annual costs
Intercept	1.64 (0.78,2.5)	1.6 (0.58,2.62)	0.78 (0.45,1.11)	-0.03 (-0.15,0.09)	11.51 (10.06,12.96)	9.17 (7.07,11.27)	1.57 (-2.49,5.63)	0.64 (0.21,1.07)	-0.75 (-2.55,1.05)	2.48 (-0.77,5.73)	0.59 (-1.53,2.71)	-0.33 (-0.7,0.04)	21.79 (10.01,33.53)
Pruning				0.01 (-0.11,0.13)	-0.37 (-1.82,1.08)				0.35 (-1.45,2.15)	-0.62 (-3.87,2.63)			
Susceptibility to R6-virulent strains				0.01 (-0.11,0.13)					-0.21 (-2.01,1.59)		0.85 (-1.27,2.97)	0.12 (-0.25,0.49)	
Area R6											-1.41 (-3.53,0.71)		
Mildew May						0.63 (-1.47,2.73)		0.72 (0.28,1.15)	0.33 (-1.47,2.13)	-1.21 (-4.46,2.04)	2.63 (0.51,4.75)	1.28 (0.91,1.65)	
First spray date						-0.37 (-2.47,1.73)			0.12 (-1.68,1.92)				
Interval													-0.64 (-12.38,11.10)
Initial interval after change						0.15 (-1.95,2.25)			0.04 (-1.76,1.84)	-0.13 (-3.38,3.12)		0.008 (-0.36,0.38)	
Degree centrality										3.31 (0.06,6.56)		0.25 (-0.12,0.62)	3.79 (-7.95,15.53)
Synthetic						-0.28 (-2.38,1.82)		0.01 (-0.42,0.44)					1.88 (-9.86,13.62)
Nonsynthetic						-0.25 (-2.35,1.85)						0.01 (-0.36,0.38)	-0.71 (-12.45,11.03)
Mixture						-0.41 (-2.51,1.69)		-0.003 (-0.43,0.42)				0.05 (-0.32,0.42)	
Disease incidence													7.00 (-4.74,18.74)
Standard Deviation	0.44	0.52	0.17	0.06	0.74	1.07	2.07	0.22	0.92	1.66	1.08	0.19	5.99

715 ^a Parameter estimates are based on the square root-transformed variables as noted in the text. The 95% confidence intervals are given
716 parenthetically.

717 ^b Variable descriptions are given in Table 1.

