

707 **Table 1.** Summary statistics and description of variables considered in conditional Gaussian Bayesian networks

Variable ^a	Mean	St. Dev.	Min	Max	Description
Pruning	2.9	1.45	1	5	Thoroughness of spring pruning; 1 to 5 ordinal scale
Susceptibility to R6-virulent strains	2.85	1.31	0	5	Susceptibility to pathogenic races of <i>P. macularis</i> with virulence Vb,V3,V4,V5,V6 (R6-virulent); 0 to 5 ordinal scale
Susceptibility to non-R6-virulent strains	1.77	1.53	0	4	Susceptibility to pathogenic races of <i>P. macularis</i> with virulence Vb,V3,V5 (non-R6-virulent); 0 to 5 ordinal scale
Area R6 ^a	0.65	0.24	0.2	0.8	Yearly proportion of hop acreage planted to cultivars susceptible to R6-virulent strains
Area non-R6 ^a	0.5	0.04	0.44	0.56	Yearly proportion of hop acreage planted to cultivars susceptible to non-R6-virulent strains
Mildew may	0.01	0.03	0	0.38	Incidence of plants with powdery mildew in May; continuous variable
First spray date	119.3	16.0	64	166	Day of year of the first fungicide application
Interval	16.4	10.4	1	61	Mean interval in days between fungicide applications
Initial interval after change	6.81	10.6	0	61	Interval in days of first spray after switching fungicide type
Disease incidence	0.10	0.22	0	1	Seasonal mean incidence of plants with powdery mildew during April to July; continuous variable
Degree centrality	0.5	0.34	0.03	2.08	Degree centrality of a yard, with edges weighted by wind run and area of the yard
Annual costs	538.63	308.66	6.36	1,733.36	Annual costs of pesticides for suppression of powdery mildew; expressed in real 2022 dollars per hectare.
Synthetic	0.89	0.95	0	5	Number of nonsynthetic fungicides use per hop yard per year
Nonsynthetic	3.44	1.87	0	10	Number of synthetic fungicides use per hop yard per year
Mixture	0.91	1.13	0	4	Number of applications made using a mixture of at least one synthetic and non-synthetic fungicide per hop yard per year
N	1,174				

708 ^a Ordinal values of disease susceptibility were dichotomized as '1' for cultivars with scores ≤ 1 and 0 otherwise to determine the
709 proportion of hop yards that were planted to cultivars resistant or susceptible to a given strain of *Podosphaera macularis*.