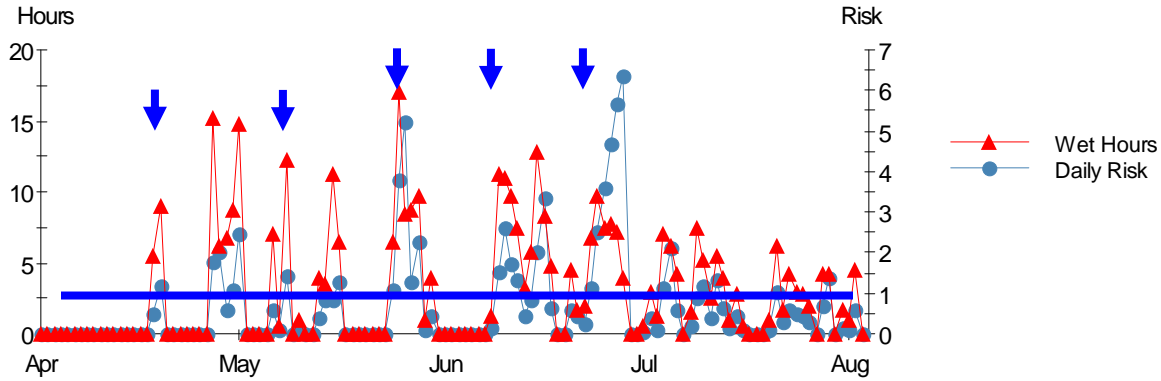
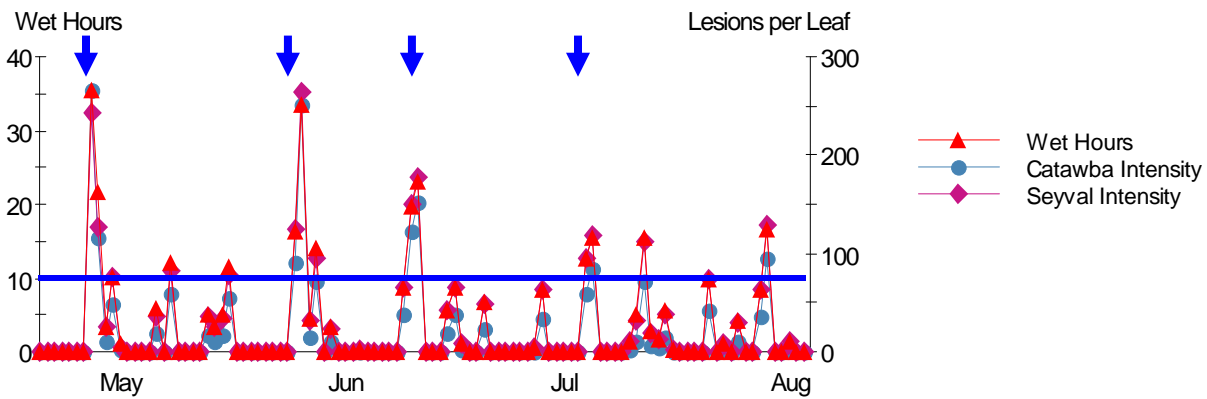


Stone Hill 07 to date - Black Rot - Grape

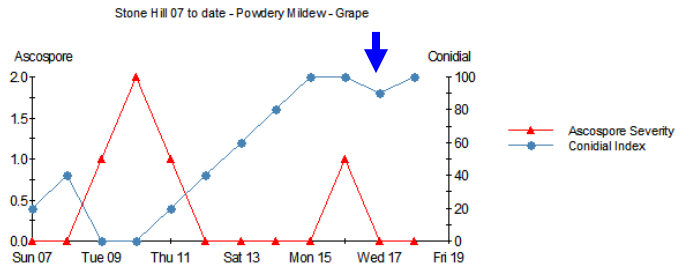
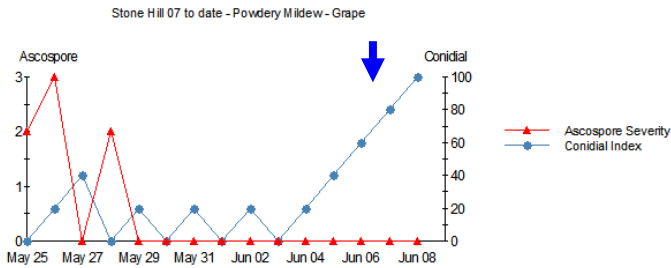
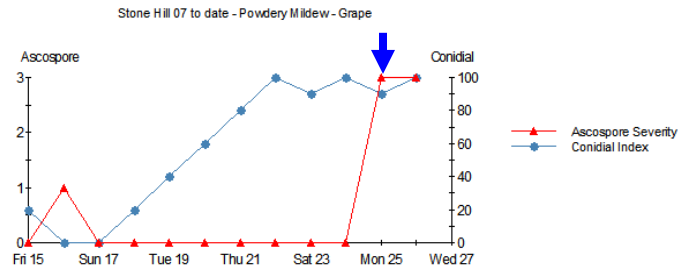
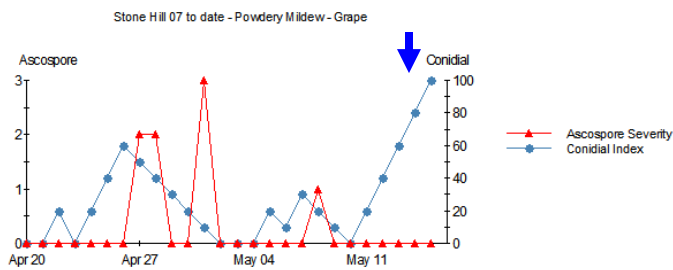


Risk for black rot fruit infection is just before bloom until about 6 weeks after bloom.
 Black rot infections occurred when **blue dot** was at or above Risk of 1 (**blue line**)

Hermann, MO 2009 - Phomopsis Cane+Leaf Spot - Grape



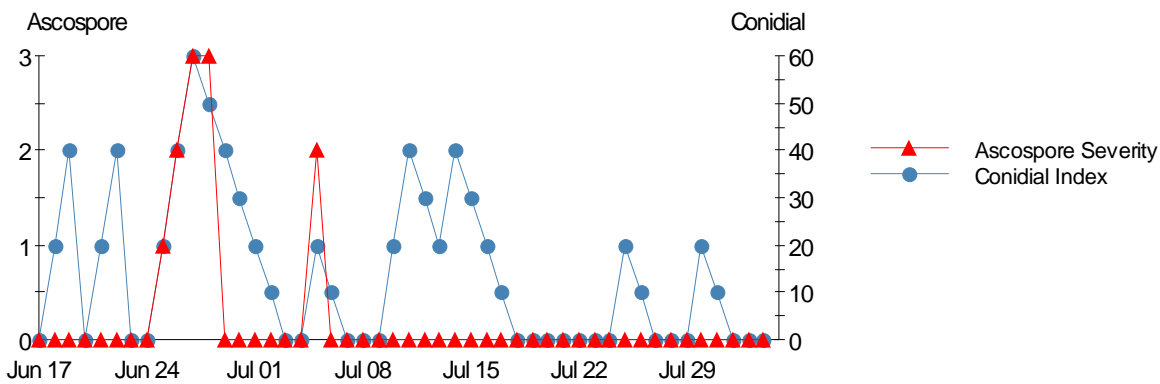
Potential for phomopsis infection starts by 1 or 2 inches of shoot growth.
 Phomopsis infections occurred on 27, 28 April, 25 & 26 May, 10, 11 June, and 4, 5, 12, 29 July when **blue (Catawba model)** and **purple (Seyval model)** dots were at or above 10 hr leaf wetness = 10 to 20% disease severity of more than 30 lesions/leaf (**blue line**).



May

June

Stone Hill 07 to date - Powdery Mildew - Grape



Most important sprays - a week or 2 before bloom to about 1 month after bloom.

Severe ascospore infection occurred from 25-28 June when Ascospore Severity >2.

Infection by Conidia when **Conidia Index > 60.**

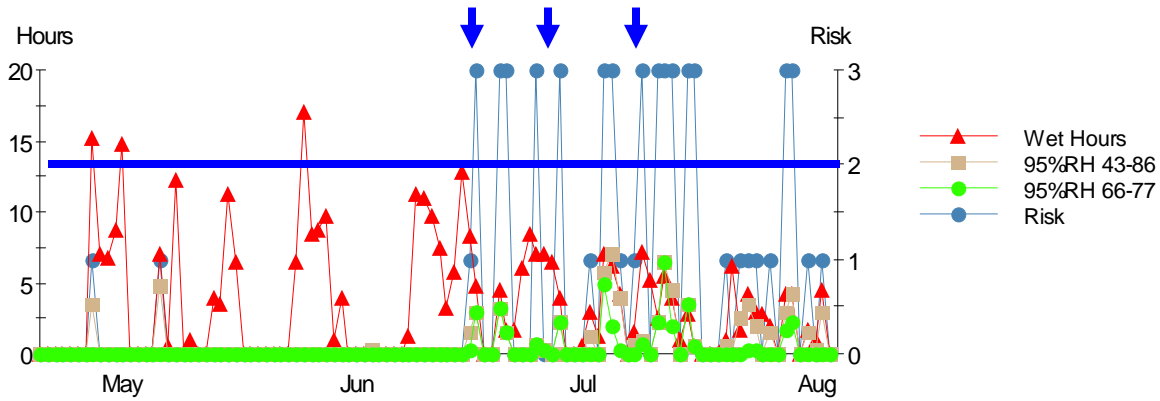
Powdery mildew conditions (**circled, blue dots** > 60 conidia Index) occurred by 14 May, and reoccurred by 25 May, 7 and 17 June which would all be spray dates (**arrows**).

After each spray date, the model was re-run to start conidia index at zero and spray again.

Spray recommended when it exceeds **60 Conidial Index (blue dot)** after 10 days since last fungicide spray.

After 17 June, conidia index did exceed 60, so no more powdery mildew sprays needed.

Stone Hill 07 to date - Downy Mildew - Grape

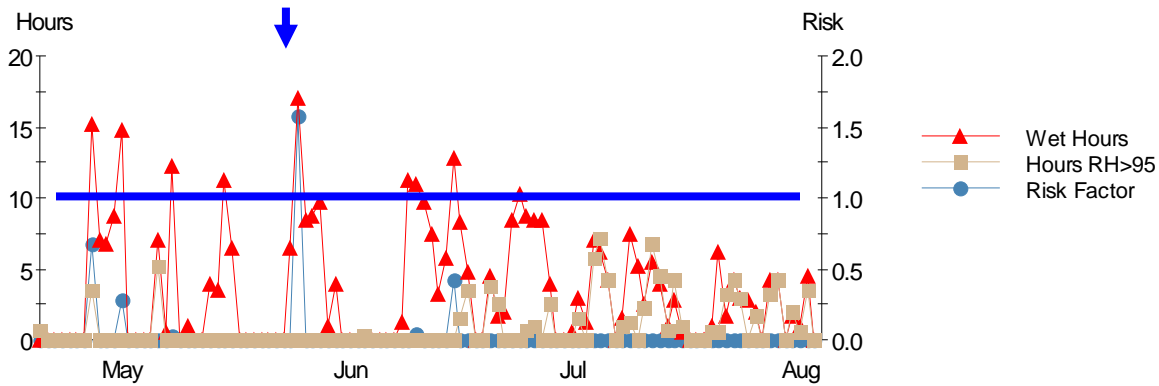


The %RH sensor did not work from 19 April to 16 June – replaced logger on 14 June.

Fruit are most susceptible from about 2 weeks before bloom until 4 weeks after bloom.

There was potential infection 17, 20, 21, 25, 26, & 28 June, 4-5, 11-13, 15-16 July when risk of infection (**blue dots**) exceeded Risk > 2 (**blue line**). **Arrows** indicate dates to spray.

Stone Hill 07 to date - Botrytis - Grape



The %RH sensor did not work from 19 April to 16 June – replaced logger on 14 June.

Rocheport area had botrytis events (spray) on 25 May, but Stone Hill had no Botrytis risk thereafter.

Spray about bloom, closing, veraison and preharvest to protect fruit.

Botrytis infection occurs when it is cool (< 85°F) with > 10 hrs leaf wetness as noted by the **blue dot** that exceeded Risk > 1 (**blue line**) or when > 95% RH humid for > 12 hrs.

If conditions aren't favorable then you could probably safely omit the spray.