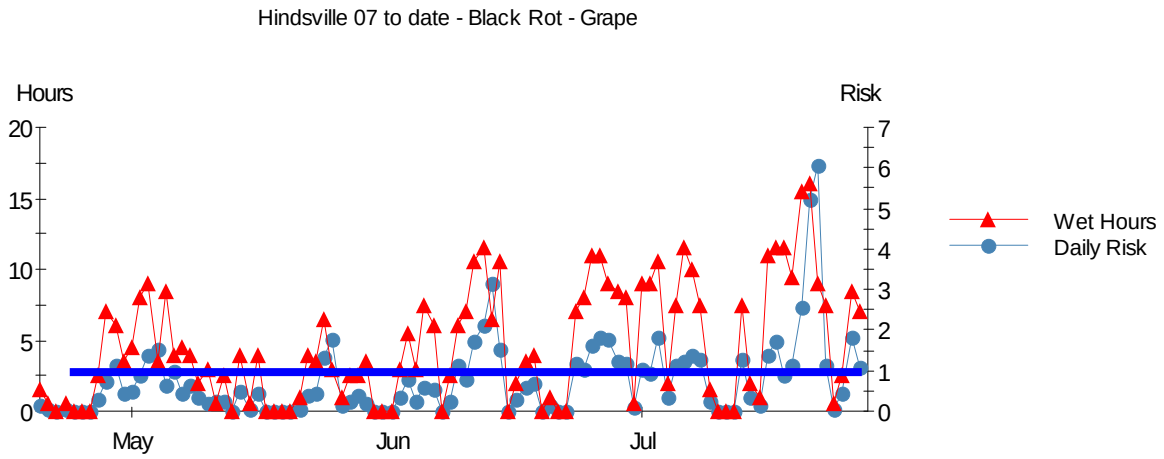
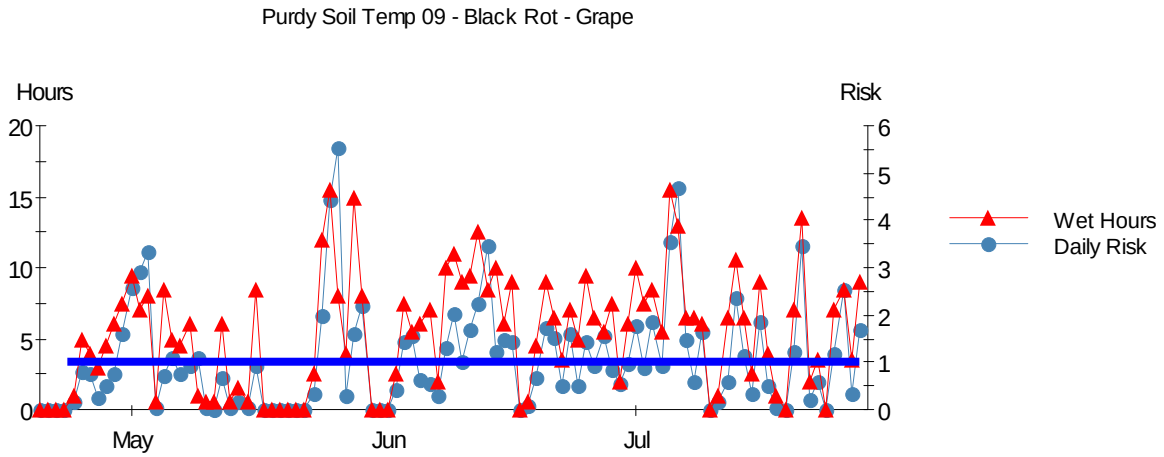
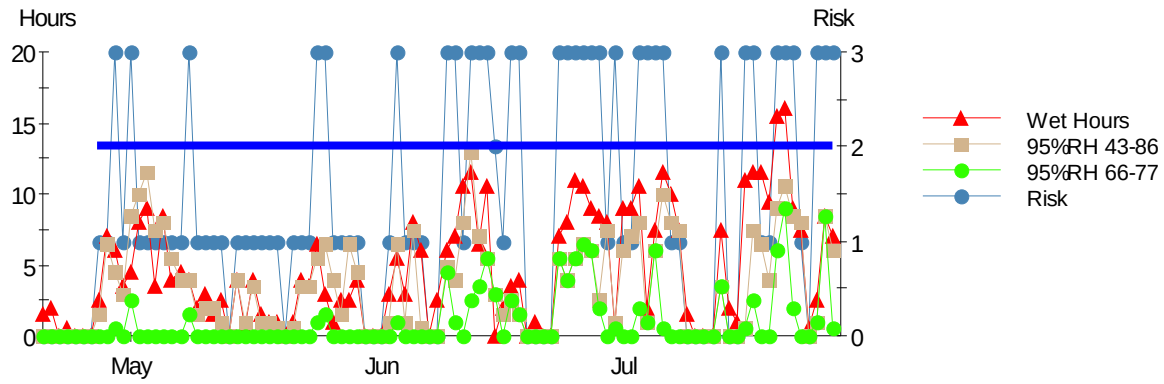
**Graphs of Daily Risk of Grape Diseases**
**For Hindsville, AR and Purdy, MO (mid-April through 27 July 2009)**



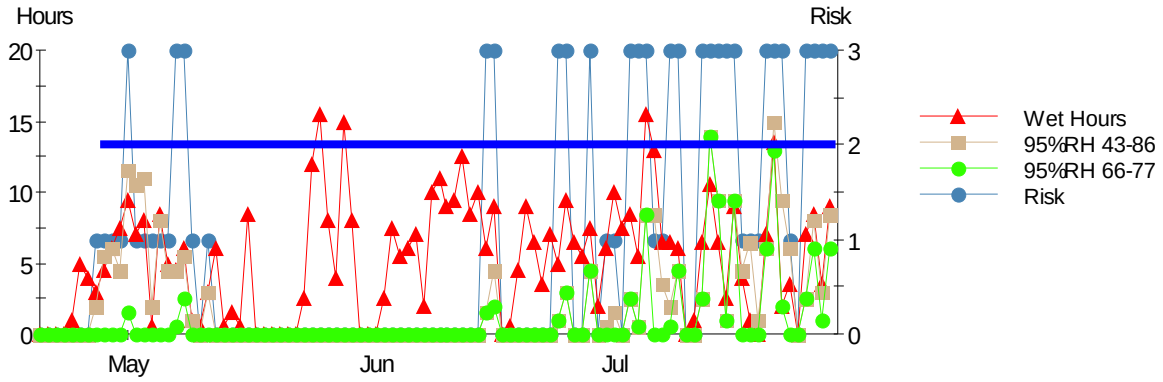




**<u>Black Rot:</u> Risk for fruit infection is just before bloom until about *<u>6 weeks after bloom (mid July)</u>***.
Black rot infections occurred when **blue dots** were at or above Risk of 1 (**blue line**)

Hindsville 07 to date - Downy Mildew - Grape



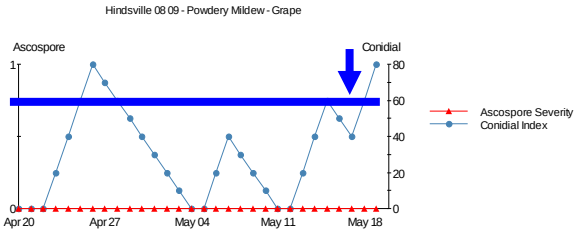

Purdy Soil Temp 09 - Downy Mildew - Grape



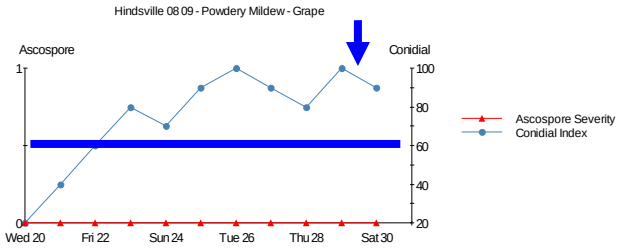

**<u>Downy Mildew</u>: Fruit are most susceptible from about 2 weeks before bloom until *<u>4 weeks after bloom (early July)</u>***.

There was risk of infection in June and July when **blue dots** exceeded Risk > 2 (**blue line**).

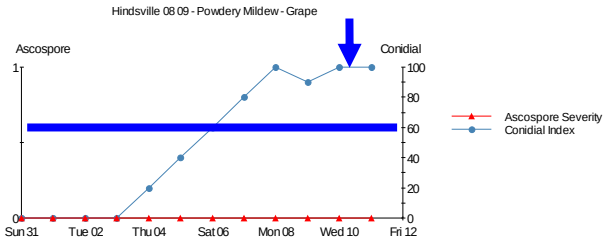
# HINDSVILLE, AR



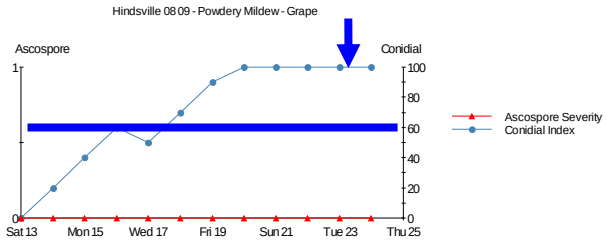

May



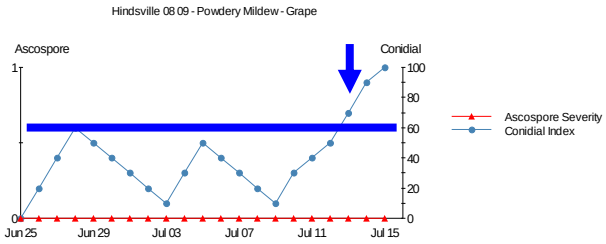

May



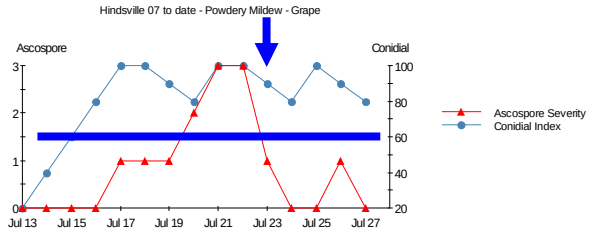

June




June



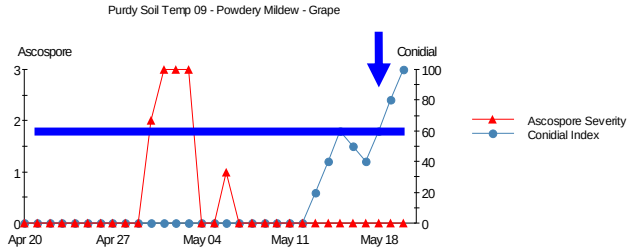

July

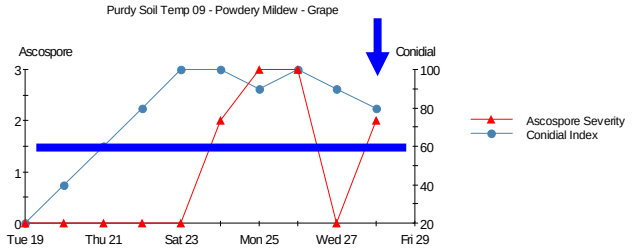



July

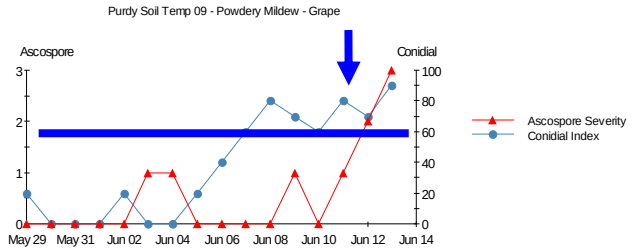
**<u>Powdery Mildew</u>: Most important sprays – 2 weeks before bloom to 1 month after bloom (early July)**. Severe Ascospore infection if **Ascospore Severity >2.** Infection by Conidia when **Conidia Index > 60.** Powdery mildew conditions (**blue dots** > 60 conidia Index). After each spray (**arrows)**, model was re-run starting conidia index at zero and spray again when it reaches **60 Conidial Index** (**blue dot**) if after 10 days since last spray.

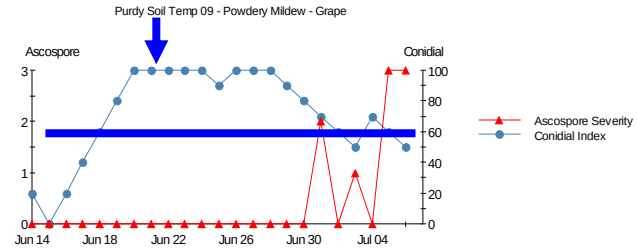
## PURDY, MO -

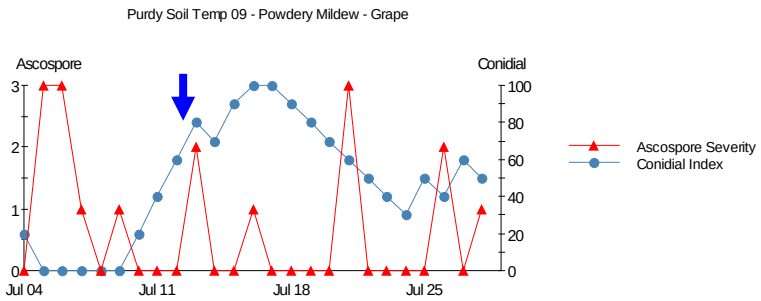



May

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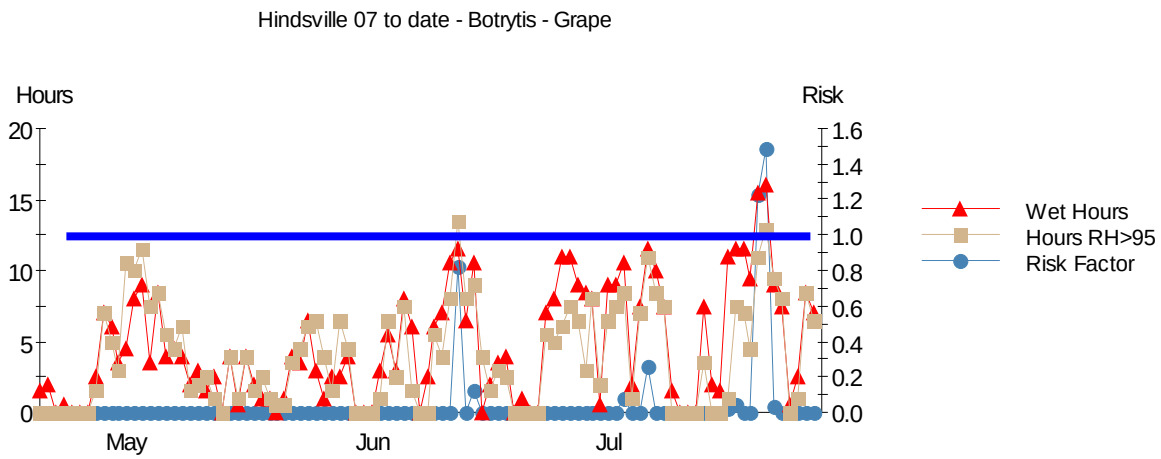
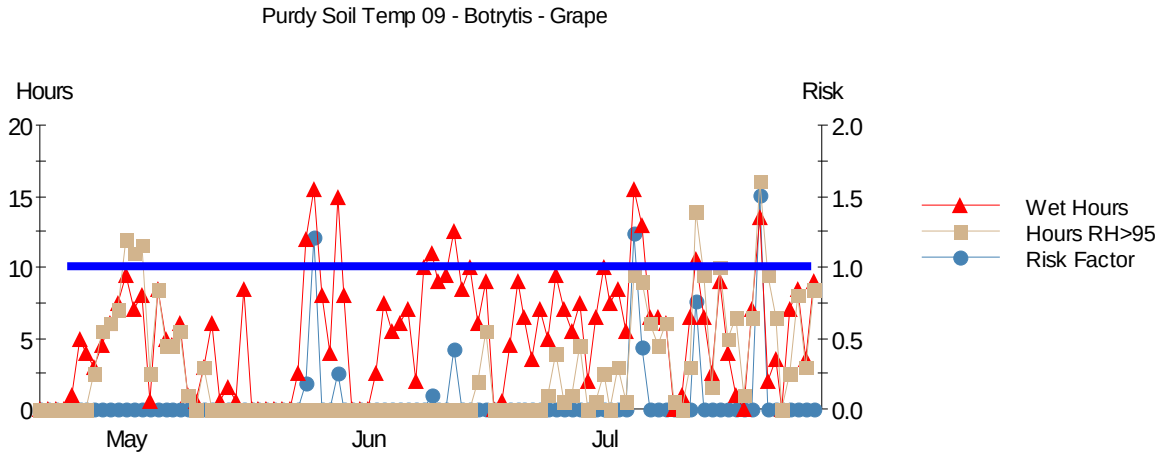



**Hindsville, AR - Spray about bloom, closing, veraison and preharvest to protect fruit.**
**Botrytis infection occurred on 20-21 July when risk factor > 1 (blue dot).**

***In Purdy, MO the %RH sensor did not work 11 May to 16 June – replaced sensor on 16 June.***




**Purdy, MO - Spray about bloom, closing, veraison and preharvest to protect fruit.**
**Botrytis infection occurred on 5 and 21 July when risk factor > 1 (blue dots).**
It was cool (< 85°F), had > 10 hrs leaf wetness (**red triangles**), > 95% RH humid for > 10 hrs (**tan squares**) and exceeded Risk > 1 (**blue line, blue dots**).