



## Grape IPM Update

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### Disease Management

We will soon be entering a critical time to manage the BIG 4 major diseases of grapes: Phomopsis, Black Rot, Powdery Mildew, and Downy Mildew. As mentioned in a previous IPM Update, Dr. Wayne Wilcox of Cornell University has written a very extensive review of disease management options for 2009. It can be found at:

<http://blogs.cce.cornell.edu/grapes/files/2009/04/wilcox-grpdis-409.pdf>

The following is an example of a “skeletal” disease management program which is found in the article: [An Initial Integrated Pest Management \(IPM\) Strategy for New Cold Climate Winegrape Growers](#). Note that the program assumes resistance has not developed to the sterol-inhibitor class of fungicides and the strobilurin fungicides in the vineyard. The skeletal program should be viewed as a possible “starting point” which you can modify and expand to your specific vineyard conditions.

### **An Example of a “Skeletal” Disease Management Program for Cold Hardy Cultivars which can be Modified to Your Conditions**

#### **Stage of Growth - A Fungicide Option(s) [for specific diseases listed]**

--5” – 8” shoot - **Mancozeb** [for Phomopsis, Black Rot (BR), and Downy Mildew (DM)]

--**Immediate Pre-Bloom to Early Bloom** - **Rally** [Powdery Mildew (PM), BR] + **Mancozeb** [BR, DM, Phomopsis]

--**1<sup>st</sup> Post-Bloom (10-14 days from last spray)** - **Rally** [PM, BR] + **Mancozeb** [BR, DM, Phomopsis]

--**2<sup>nd</sup> Post-Bloom (10-14 days from last spray)** - **Sovran or Abound\* or Pristine\*** [BR, DM, PM] [These are ‘big guns’; use if have very favorable weather for disease.] **OR Sulfur\*** [PM] + **Mancozeb** [BR, DM] [if outside 66 days to harvest and if under the maximum amount allowed per season per acre] **OR Sulfur\***[PM] + **Captan** [DM] [note captan has a restricted-entry interval of 48, 72, or 96 hours depending on the label] [\*denotes potential phytotoxicity issues - check labels]

--Additional Summer Sprays - possible options include **Sulfur\*** for PM; **Captan**  
**OR** a phosphonate product for DM

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**Red** denotes **critical period** for disease management.

For rates of materials and further details see the  
[New York and Pennsylvania Pest Management Guidelines](#)

Note: If your vineyard had a Phomopsis or Black Rot problem last year,  
the first spray should go on earlier, at 3"- 5" shoot growth.

**ALWAYS READ PESTICIDE LABELS VERY CAREFULLY**  
**— THE LABEL IS THE LAW ON HOW THE MATERIAL CAN BE USED—**

**Fact Sheets to Further your Knowledge about these Diseases:**

**Phomopsis** - <http://www.nysipm.cornell.edu/factsheets/grapes/diseases/phomopsis.pdf>

**Black rot** - [http://www.nysipm.cornell.edu/factsheets/grapes/diseases/grape\\_br.pdf](http://www.nysipm.cornell.edu/factsheets/grapes/diseases/grape_br.pdf)

**Downy mildew** - [http://www.nysipm.cornell.edu/factsheets/grapes/diseases/downy\\_mildew.pdf](http://www.nysipm.cornell.edu/factsheets/grapes/diseases/downy_mildew.pdf)

**Powdery mildew** - [http://www.nysipm.cornell.edu/factsheets/grapes/diseases/grape\\_pm.pdf](http://www.nysipm.cornell.edu/factsheets/grapes/diseases/grape_pm.pdf)

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***Congratulations to the Vermont Grape & Wine Council  
for an Excellent Conference !***

There was a wonderful turn-out for the 1<sup>st</sup> Annual Conference of the Vermont Grape & Wine  
Council yesterday. All the speakers were excellent ! Congrats !



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