Insect Scouting Information

**Grape Berry Moth Notes:**

Grape berry moths in monitoring traps peaked in mid-June, but these high trap numbers did not immediately coincide with the level of cluster infestation. Cluster infestations did not start increasing until late July, but once they started appearing they continued to climb steadily all the way to harvest. The late season increase in berry moth infestation this year indicates the importance of being ready for late season increases. Growers who weren't ready for the late season infestations this year may have been surprised by the sudden appearance of high infestation levels before harvest.  

For an article on controlling late season GBM click here

**Japanese Beetle and Rose Chafer Notes:**

Rose chafer numbers this season stayed very low. Only a few were found during mid June, and those found were not enough to inflict very much damage on the vines. Japanese beetle numbers peaked in mid July and tailed off by late August. While a few hot spots did show up at some vineyards, overall the numbers were quite low and damage was limited.
Leafhopper Notes:

** Leafhopper numbers were low all season, with grape leafhopper populations staying especially low. Even at their highest potato leafhoppers were still only found on just under 1 leaf out of 25 on average.

Disease Scouting Information

Phomopsis Notes:

** Phomopsis leaf infections were at low levels on average when disease scouting began in mid July and steadily declined to trace levels by harvest. Cluster infections started at trace levels and climbed steadily up to low levels on average. This graph shows the average of all seven vineyards. It does not show the high variability among different vineyards. Some had very high levels of phomopsis while others had just a trace. This highlights the importance of scouting your own vineyard to determine how severe your infections are.
Downy Mildew and Powdery Mildew Notes:

** Downy mildew leaf infections increased steadily through the season until they leveled off in August. Downy mildew cluster infections were basically non-existent throughout the season. Powdery mildew infections did not start showing up until mid August with leaf infections increasing up to harvest and cluster infections increasing then tailing off near harvest.

Click here for downy mildew information  
Click here for powdery mildew information

Black Rot and Botrytis Notes:

** Black rot and botrytis infections stayed below trace levels on average. All infections increased steadily from mid August up until harvest, except for black rot cluster infections which dipped slightly. Even though the average infection levels for black rot and botrytis were quite low, there were a few sites that did have higher levels of infection.

Click here for black rot information  
Click here for botrytis information

Growing Degree Accumulation (Base 50 starting March 1):

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For more information on this project, contact Steve at (517) 242 1282

More information on Vineyard IPM is available online at: [www.grapes.msu.edu](http://www.grapes.msu.edu)