Regional Pest Update

Southern Wisconsin
The Southwest part of the state began to receive rain during the last two weeks. We now have thousands of Japanese Beetles on plants in the trial garden. Spraying with Sevin, and Assail. I sprayed with Pyganic using the method that is recommended (lower water pH with vinegar, spray early late evening and we have not had control of the beetles with Pyganic). I would not recommend Pyganic for Japanese Beetles on grapes. I am still working with 70% Neem Oil on the table grapes; will have more results by end of week.

Northeastern Wisconsin
The drought at the Research Station continues with only 3/10" precipitation received over the last 3 weeks. Drip irrigation is running and vine growth is excellent, but berry development is very slow. We need some heat soon to fill out the clusters. We have caught one grape berry moth in our pheromone trap on the 22nd and have applied a Sevin XLR application this week. Disease occurrence and development has been very limited, with little or none of the mildews showing up with a very minimal disease program.

Vernon County
Hail that moved through Vernon County on July 23 and 24 did some serious damage to several vineyards. Golf sized hail split fruit and severely damaged vines as seen in the pictures below. At this stage of berry development, small cuts and dents may callus over, but large cuts are probably going to desiccate or be subject to fungal infections such as botrytis and alternaria if wet conditions prevail. If dry conditions follow, most of the damaged fruit will probably dry up and persist in the bunch. Applications of botrytis specific fungicides will prevent widespread infection within the bunch, but not be very effective against either of the mildews.
What’s lurking in or near the vineyards this week?

**Grape Tumid Gallmaker**
Larvae excited the galls within the last week as evidenced by the exit holes in the galls. The larvae have dropped to the soil and will pupate and either emerge as midges to start the cycle over or remain in the soil and continue the cycle next spring. There are normally 2 to 3 generations per year but the number of generations is dependent on weather conditions.

**Downy mildew symptomology.** Notice the mild chlorosis (yellowing) that surrounds the necrosis (brown areas) on the top surface of the leaf. Viewing this leaf close-up reveals that the necrotic areas are irregular. The development of downy mildew has been slowed considerably by the dry conditions and development is arrested.

**Grape phylloxera galls starting to appear on leaves of wild grapes**
Fruit development on mature grape vines at Peninsular Agricultural Research Station in Sturgeon Bay, Wisconsin.

Foch July 13, 2009
Berries peppercorn size

La Crosse July 13, 2009
Berries peppercorn size

Fruit development on mature grape vines in Vernon County.

Foch July 27, 2009
Berries large pea size

La Crosse July 27, 2009
Berries large pea size

Vine development of Foch and La Crosse in the 2nd year at the Spooner Agricultural Research Station.

Foch July 13, 2009

La Crosse July 13, 2009
What stage are the second year grapevines at West Madison Agricultural Research Station?

Foch July 27, 2009

La Crescent July 27, 2009

What stage are the second year grapevines at Peninsular Agricultural Research Station?

Brianna July 27, 2009

La Crescent July 27, 2009

Growing Degree Days\(^1\) from April 1 to July 26

<table>
<thead>
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<th></th>
<th>2009</th>
<th>2008</th>
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<td>1176</td>
<td>1246</td>
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<tr>
<td>W. Madison ARS</td>
<td>1215</td>
<td>1419</td>
<td>1545(^2)</td>
</tr>
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\(^1\) Modified method

\(^2\) 3 year average for West Madison ARS.

Please scout your vineyards on a regularly scheduled basis in an effort to manage problem pests. This report contains information on scouting reports from specific locations and may not reflect pest problems in your vineyard. If you would like more information on IPM in grapes, please contact Dean Volenberg at (920)746-2260 or dean.volenberg@ces.uwex.edu