

Northern Michigan FruitNet 2013

Northwest Michigan Horticultural Research Center

Weekly Update

July 23, 2013

CALENDAR OF EVENTS

- | | |
|-------------|---|
| 7/31 | SW Viticulture Field Day
SWMREC – Benton Harbor |
| 8/2 | Parallel 45/MSUE Viticulture Update
Ground Floor Management/Cover Crops with Dr. Matt Grieshop
Chateau Chantal – Old Mission |
| 8/7 | Hop Production 201 – Beyond the Basics Workshop
SWMREC |
| 8/8 | RidgeFest
West Michigan Fruit Grower Tour |
| 8/9 | Hops Field Day & Tour |
| 8/22 | NWMHRC Open House |
| 8/22 | Parallel 45/MSUE Viticulture Update

New wine cultivars with Dr. Paolo Sabbatini
NWMHRC |
| 8/27 | Peach and Plum Variety Showcase
SWMREC |

GROWING DEGREE DAY ACCUMULATIONS AS OF July 22 AT THE NWMHRC

Year	2013	2012	2011	2010	2009	2008	23yr. Avg.
GDD42	1989	2466	1906	2281	1694	1834	1956.4
GDD50	1322	1627	1217	1451	983	1130	1228.6

Growth Stages at NWMHRC (July 22, 2:30 p.m.)

Apple: Red Delicious – 48 mm

Gala – 44mm

Yellow Delicious – 44 mm

Pear: Bartlett: 35 mm

Sweet Cherry: Hedelfingen: Harvested

Napoleon: Harvested

Gold: Harvested

Tart Cherry: Harvest this week

Balaton: 20 mm

Apricot: 31 mm

Grapes: Berry touch

Northwest Michigan Regional Report

N.L. Rothwell, NWMHRC

The heat has moved out in time for the start of tart cherry harvest, which is well underway across the region.

Tart cherry harvest has begun in northwest Michigan. Most of the sweet cherries have been harvested, and quality was good except in blocks where American brown rot was a problem. Tart quality is good, but there is some wind whip with the very high winds we had over the weekend. Last week's heat was brutal, but on Friday night, cooler conditions moved in and we had almost perfect temperatures for harvest over the weekend. We had little rain last week, and soil moisture levels are extremely low. Some parts of the northwest received precipitation last night, and the NWMHRC received 0.49" of rain last evening. We have accumulated 1989 GDD base 42 and 1322 GDD base 50 so far this season.

Apple. Dry conditions have kept **apple scab** at bay, but growers with some scab lesions have continued to protect new foliage and fruit. The warm conditions favor the development of

powdery mildew (PM), and there is some visible PM in orchards at this time. Insect catch in apples is low this week, and **codling moth** numbers have been low across the region. We suspect that the hot weather last week was above the codling moth's upper temperature threshold; they will likely begin to fly again with the cooler conditions. **Spotted tentiform leafminer** numbers are up this week, and we caught no **apple maggots** in the region. **Obliquebanded leafroller** adult numbers are also down again this week, but small larvae are visible in terminals.

Cherry. As mentioned above, most of the sweet cherry harvest is wrapping up and growers are moving into tarts. **Cherry leaf spot** lesions can be found in tart cherry, and Michigan State University recommends a post-harvest application of chlorothalonil to keep leaves on the trees through September. **Powdery mildew** is evident on trees with good new terminal growth. There is **phytotoxicity** in both sweet and tart cherry blocks, and most of it is on older leaves. We are still trying to determine the cause of this damage, but we hypothesize that surfactants and heat together were the likely culprits. We will continue to look into this issue.

Obliquebanded leafroller (OBLR) larvae have been difficult to find in sweet and tart cherry and adult catch in pheromone traps is low. July 1 was our peak catch of adults here at the NWMHRC, and from that biofix date, we have accumulated 498GDD. Summer generation OBLR egg hatch begins at 400-450GDD base 42; therefore, we expect to see larvae in the orchards soon. Growers should be scouting for OBLR larvae in tarts, particularly in blocks that will not be harvested for some time. **American plum borer** moth second generation flight has begun, and we trapped an average of 30 moths this week. **Cherry fruit fly** numbers are down again this week, and we trapped an average of 6 flies/trap, which is considerably lower than two weeks ago.

The major news of the week is that we trapped our first female **spotted wing drosophila** (SWD) at the NWMHRC in tart cherry on Monday, July 22. Another female fly was trapped on Old Mission Peninsula. This insect will be challenging to control as it shows up so close to harvest. Delegate and Entrust are both rated excellent on SWD in cherry, and both have a 7D pre-harvest interval (PHI). Imidan and Mustang Max are also rated excellent but have a 14D PHI. Danitol (3D PHI) and Baythroid (7D PHI) are rated good against SWD.

Wine Grapes

Duke Elsner, Grand Traverse County MSUE

Berries are sizing nicely, and some of the tighter clustered varieties are now at berry touch. It may be necessary to increase spray water volume from here on out to achieve good penetration through the canopy and into clusters.

Although **powdery mildew** is still surprisingly light in many vineyards, we have now seen the start of **downy mildew** symptoms at some sites. **Anthracnose** and **black rot** infections have

been found on some table grape cultivars that are relatively susceptible to these fungus diseases, but we do not expect these to become an issue on our wine grape varieties.

Japanese beetle are now active downstate, and as the days progress they should appear here soon. A very high population of these beetles was seen in a Saginaw County vineyard on July 16, causing extensive skeletonization of the leaves.

MICHIGAN SWD REPORT - July 23, 2013

Spotted wing drosophila fly captures increasing sharply at some sites, some still have no catch, and first SWD catch reported in NW Michigan

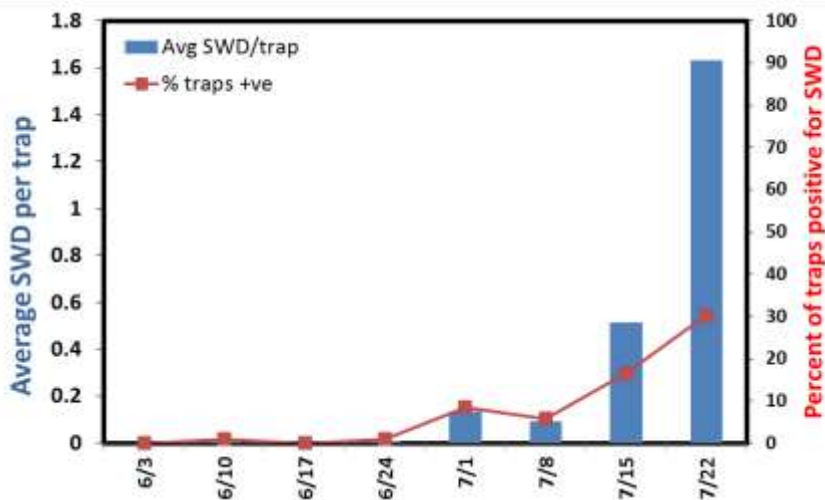
Nikki Rothwell, Karen Powers, and Statewide SWD Monitoring Team

Adult spotted wing drosophila (SWD) catch has increased in small fruit plantings in southwestern Michigan over the past week. Five SWD were trapped in high tunnel raspberries in southern Michigan, and eight males and six females were trapped outside of high tunnels (3 traps) at one raspberry farm. A very low number of *Drosophila* larvae were also detected in fruit sampled from this farm with higher fly catches. In vineyards, we caught a single female SWD at a Concord vineyard in Van Buren County and 20 SWD at multiple Berrien County vineyard sites. Another site in Berrien County caught 17 SWD in a site that grows raspberries and cherries, and a four blueberry and strawberry sites trapped 14 SWD.

One scout is catching SWD in over half of the traps in blueberry in Ottawa County (20 out of 34 traps are positive). Another scout sampling mostly in Allegan Co. has reported catching SWD in 13 of 16 traps in the network, and all these traps are catching as many or more SWD than last week. The three sites that had the sharpest increase in fly catch, up into double digits, were unsprayed blueberry fields being monitored in Allegan County. We also have traps deployed in a densely populated neighborhood in the middle of Grand Rapids (Kent Co.), and caught a couple of SWD in each of those traps.

In Oceana County, we are catching an average of four female SWD/trap in tart cherry orchards. We have trapped our first fly in tart cherry in northwest Michigan at the Northwest Michigan Horticultural Research Center in Leelanau County during the past week. A private consultant also caught an adult fly in tart cherry on Old Mission Peninsula this week. Overall, we are catching 1.6 flies/trap and 30% of all the traps in the state are catching flies, which is an increase from last week's average catch of 0.41 flies per trap and 16.5% positive traps.

The increasing frequency and abundance of SWD in southern Michigan monitoring indicates that growers with ripe and susceptible fruit should take precautions to prevent SWD infestation. As raspberry and blueberry harvest is underway throughout the state, growers need to be sure to keep this fruit protected through the harvest period. Growers should make their decisions to spray based on the presence of SWD flies and ripening or ripe fruit that are susceptible, plus the history of pest management inputs to each field. A monitoring program in these crops is recommended throughout the harvest season. From preliminary tests conducted at MSU, ripening and coloring sweet and tart cherry fruits are susceptible to SWD infestation. With tart cherry harvest underway in west central and northwest Michigan, it is likely that populations of SWD will not reach high levels before the end of harvest.





Hosted by MI Pomesters

2013 West Michigan Fruit Grower Tour

August 8, 2013 – 12 p.m.

RidgeFest is a fun and informative day for any fruit grower, marketer or storage operator. The focus of this year's event will be on high density orchard systems and labor saving equipment demonstrations.

The tour will make three stops at area farms:

- **Thome Orchards** - Planting systems, Thinning Trials and Fertigation/Irrigation Information
2137 7 Mile Rd. Comstock Park, MI 49321
- **Windyridge Orchards** - Planting Systems, Equipment Demos and Chemical Trials
6566 Fruit Ridge Ave. Grand Rapids, MI 49544
- **Joe Rasch Orchards** - Geneva Root Stock Trial
9096 Kenowa Ave. Sparta, MI 49345
- Final stop at Knights of Columbus hall in Conklin for dinner & entertainment by Colin Tobin
21130 32nd Ave. Conklin, MI 49403

We will also feature special guest Terrance Robinson, an applied fruit crop physiologist with Cornell University.

If you plan to join us for this one day event, please RSVP to MiPomesters@gmail.com.

Members of Michigan Pomesters and one guest can attend this event for no cost.

All non-members must pay an event fee of \$25.

NATURAL RESOURCES BUSINESS WORKSHOP TO HELP LANDOWNERS

Michigan landowners will learn about opportunities to start a natural resource business on their property during a workshop at the University Center in Gaylord on **Saturday, August 24, 2013, 9:00 am to 5:00 pm.**

Natural resources businesses include activities such as small-scale maple syrup, mushroom production, trail riding, fee hunting and fishing, rural bed and breakfasts, wildlife viewing and more.

During the event, hosted by Michigan State University Extension, landowners will hear from Dr. Daryl Jones, coordinator of the Natural Resources Enterprises Program at Mississippi State University and a nationally-known expert on this topic. The workshop will also include presentations from landowners who have successfully started a small-scale natural resources business, and Michigan natural resources experts on how to get started. An afternoon bus tour around the Gaylord area will feature a variety of natural resources businesses.

"There are many excellent options," says Dean Solomon, MSU Extension Senior Educator, "for landowners to use the forest, wildlife, open fields and water resources on their property for hobbies or to generate income."

The event is sponsored by Michigan State University Extension, Northeast Michigan Conservation Districts, Huron Pines, The Michigan Department of Agriculture and Rural Development Forestry Assistance Program and Mississippi State University.

Solomon noted that although the workshop is designed primarily for landowners, anyone is welcome to attend.

Pre-registration is \$35 per person (\$55 after August 16). The enrollment deadline is August 21. For questions or to register, visit www.events.anr.msu.edu/nrbusiness, or contact the MSU Charlevoix County Extension office at 231-582-6232.

Dean Solomon

Senior Extension Educator
Michigan State University Extension
Phone: 231-582-6232 | Cell: 231-357-2761
319 B North Lake Street, Boyne City, MI 49712

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WEBSITES OF INTEREST

Insect and disease predictive information is available at

<http://enviroweather.msu.edu/homeMap.php>

This issue and past issues of the weekly FruitNet report are posted on our website

<http://agbioresearch.msu.edu/nwmihort/faxnet.htm>

60 Hour Forecast

<http://www.agweather.geo.msu.edu/agwx/forecasts/fcst.asp?fileid=fous46ktvc>

Information on cherries is available at the new cherry website

<http://www.cherries.msu.edu/>

Fruit CAT Alert Reports has moved to MSU News

<http://news.msue.msu.edu>

Tart Cherry Raw Product Reports – 2013

<http://www.cherryboard.org/Week32013.pdf>