

Northern Michigan FruitNet 2018

Northwest Michigan Horticultural Research Center

Weekly Update

FruitNet Report – August 3, 2018

CALENDAR OF EVENTS

8/23

NWMHRC Open House

*More details below! Please RSVP
for dinner to Jenn at 231-946-
1510 or goodr100@msu.edu*

What's new?

- **Pest Update – August 3, 2018**
- **Ridgefest 2018 - Annual Tour- Thursday, August 9th**

Nikki Rothwell's cell phone is not working this weekend. If you need to get ahold of her, please send her an email at rothwel3@gmail.com!

New articles

Pest Update – August 3, 2018

While **brown marmorated stink bug** (BMSB) have been detected in residential areas in northwest Michigan in previous years, the first BMSB was found this week on 1 August in a commercial cherry block in Grand Traverse County (near Yuba). Two additional BMSB were also found in a trap in a residential area of southern Leelanau County. We have also observed nymphs (i.e. juvenile stages) near the traps in the residential area in southern Leelanau County. NWMHRC has been working with MSU fruit researchers and Extension educators to conduct a statewide monitoring network for BMSB. In our region, we have traps in Antrim, Benzie, Grand Traverse, and Leelanau counties at this time. Unfortunately, the current commercially available BMSB traps have not been an effective indicator of BMSB presence when populations are low. In addition to difficulty detecting this pest, BMSB feeding damage does not appear immediately after it occurs, hence adding to the challenge of determining when to implement management tactics.

We have not trapped **apple maggot** at the research station this season, but we have received reports of apple maggot activity in the region. We have received reports of high trap AM trap counts from regional scouts—counts are higher than they have seen in past years. Our colleague, Dave Jones, in the Hart, Michigan area has also reported low trap catches. Drier conditions may have influenced apple maggot emergence this season.

Second generation **codling moth** adult activity has picked up over the last two weeks, and based on degree day accumulations egg hatch is underway.

San Jose scale incidence has increased in recent years, particularly populations in sweet cherries, and growers that have been challenged with this pest have intensified management efforts for scale. This season, some sweet cherry growers have considered a post harvest application to target the second emergence of crawlers. Our previous trapping data have shown higher catches of males during the second flight. This second flight is currently underway in our region, and we observed a high catch of male scales this week in our traps in apples (a total of 1,232 males) and sweet cherries (a total of 576 males) at the station. Crawlers will likely begin emerging in the coming weeks; we will continue to monitor for crawler emergence and relay our findings in future reports.

Hot and dry weather has favored **spider mite** and **European red mite** populations in tree fruits this season. We have observed noticeable bronzing in apples and some firing symptoms in cherries at the station. Some commercial blocks also have substantial mite populations. European red mite numbers should start to subside in the coming weeks and adult red mites will begin laying eggs that will overwinter.

Spotted wing drosophila (SWD) trap numbers are similar to trap counts from last week (Table 1). Some traps went up while others remained similar to the previous week. This insect seems to be somewhat unpredictable this year. We think that the overall hot and dry weather has decreased activity and thus there are fewer SWD in traps. We also thought rainfall would increase activity, and in some orchards, trap counts increased while other orchards had similar numbers from traps counted prior to last week's rainfall. We will continue to monitor SWD populations.

Very little **cherry leaf spot** can be found in treated trees at the research station. We finished our first round of rating for cherry leaf spot in efficacy trials and while there is some leaf spot in untreated trees, this season did not shape up to be a challenging leaf spot year. Some growers who have finished harvesting have started post-harvest applications. In contrast, this season was conducive for **powdery mildew** and this disease is evident in many cherry blocks across the region.

Ridgefest 2018 - Annual Tour- Thursday, August 9th

1st Stop:

Patrick Goodfellow Orchards
9441 Peach Ridge Ave NW Sparta, MI 49345

11:15 am- ***Arrival and Registration***

11:30 am- ***Lunch***

After lunch, we will do a quick tour of Patrick's new storage. After this, we will be getting on trailers and head out to Patrick's "planting in place".

Topic of Discussion: What has Patrick learned? The Pros and Cons of planting bench grafts in place.

Speaker: Patrick Goodfellow

Jump back on trailers

2nd Stop:

Summit Farms
9600 Fruit Ridge Ave Sparta, MI 49345
43.137572, -85.766580

Topic of Discussion: Managed Varieties: Where we have been, where we are now and where we are going.

Speakers: Wanda Heuser, Bill Dodd, Scott Swindeman, Don Armock and Chris Sandwick

Jump back on trailers

3rd Stop:

Green Tree Orchards
9557 Fruit Ridge Ave NW Sparta, MI 49345
43.138788, -85.770750

Topic of Discussion: HC/ABA Trial, MSU Extension Report, Sunburn Control
Speakers: Ryan and Jordan Rasch, Todd Einhorn, Ty Wittenbach, Amy Irish-Brown

Jump back on trailers

4th Stop:

Windy Ridge Orchards
452 Harding St. Conklin, MI 49403
43.130744, -85.800105

Topic of Discussion: New 7/11 planting. Alternate row spacings and how it will be managed, Irrigation water quality, Precision Crop Load Management using robotics
Speakers: Kyle Rasch, Chris Lattak, Dave Veltema, Phil Schwallier

Jump back on trailers

5th Stop:

Schaefer Cider Co
1051 Harding St. Conklin, MI 49403

End of Tour: Cider Social/Snacks

6:00 pm will be our target time for the social to start. There will be trailers heading back to Patrick's right after the tour for those who need to leave early.

Articles featured in past FruitNet Reports

NORTHWEST MICHIGAN HORTICULTURAL RESEARCH CENTER ANNUAL OPEN HOUSE

The Northwest Michigan Horticultural Research Center's (NWMHRC) annual open house is scheduled for Thursday, August 23, 2018. This year's event will include educational sessions, equipment demonstrations, a social hour, and dinner.

We have moved to an every-year equipment show, so vendors and equipment will be on hand all day at this year's open house. We have also added annual equipment demonstrations - we have invited equipment companies to bring in new orchard and vineyard equipment and technologies for demonstration purposes. We hope to be able to showcase new advancements in orchard and vineyard assist technologies at the 2018 NWMHRC Open House.

Free educational wagon tours of the NWMHRC will feature MSU specialists and will take place from 1:00 – 2:15 PM. The tour will include wine grape and tree fruit specialists that will speak on a variety of topics. We will discuss fire blight resistance screening results and demonstrate an orchard platform in high-density apples. We will also showcase some work we have conducted using drones as bird deterrents in sweet cherry orchards. We will also present data on the effectiveness of spotted wing drosophila management strategies that were employed in 2018. Cherry leaf spot efficacy will also be discussed. We will demonstrate some weeding strategies in wine grapes, and wine grape specialists will be on hand to review the season and prepare for harvest.

After the educational sessions, growers are encouraged to meet with equipment vendors and participate in the demonstrations from 2:30 – 5:30PM. We will host as many equipment vendors to hold demonstrations as we can in this time frame. We hope that growers and others will be sure to attend this part of the 2018 open house. Demonstrations will be followed with a social hour from 5:30 – 6:15PM and dinner at 6:15PM.

In past years, the Leelanau Horticultural Society has held their annual meeting, but this year they plan to just host the social hour and dinner. We encourage growers from all over the northwest region to join us for this fun and relaxed event.

The 2018 NWMHRC Open House is co-sponsored by the Leelanau Horticultural Society and Michigan State University AgBioResearch, and Extension, with support from Parallel 45 and the NW Michigan Horticultural Research Foundation.

To reserve or purchase a dinner ticket, please call (231) 946-1510 or email Jenn at goodr100@msu.edu by August 20, 2018. The dinner will be catered by *Ethnic Garden Catering* and will feature locally produced food; cost for dinner tickets is \$15 per person.

For more information, contact the NW Michigan Horticultural Research Center at 231-946-1510. We hope to see many of you at this fun and educational event!

Predicted 2018 Apple Harvest Dates

Philip Schwallier, District Horticulture Educator
Amy Irish-Brown, District ICM Educator

Clarksville Research Center

The predicted harvest dates for every MAWN weather station is now available on Enviroweather web site at Michigan State University. This spring was colder than average which delayed the development of spring foliage. Then warmer weather arrived and bloom developed 7 behind normal in the south to 2 days behind normal in the north part of the state. Record hot temperatures followed thus advancing harvest dates to predict near normal dates for 2018 for the state. In general, 2018 Predicted Harvest Dates are roughly normal in the south and a few days early in the north. Bloom dates this spring were late across the state.

As always, the weather seems to be unusual each year and 2018 was no different. It began with what appeared to be another very late spring. Most areas bloomed late except northern areas of the state. During April very cold weather moved in several times leaving low areas and sensitive varieties with minor frost damage. In general, apple blocks have a mix of cropload, some light areas but mostly moderate to heavy cropload. Blocks with light croploads will mature 3 or 4 days sooner than the predicted harvest dates. Heavy croploads will mature 7 days later than the predicted dates. If hot stressful weather occurs in August or September, apple maturity will be advanced. The 2018 predicted harvest dates are listed in Table 1. This year 2018, we are a few days behind last year. Table 2 lists this year's predictions compared to normal and last year.

The normal harvest dates for other varieties are listed in Table 3 for the Grand Rapids area. This year's 2018 predicted dates for other non-modeled varieties are a rough estimate based on the McIntosh, Jonathan and Red Delicious predicted dates. Other areas of the state should adjust non-predicted varieties based on their own history. ReTain application should be applied 30 DBH (days before harvest). Harvista can be applied 3 to 7 DBH. Use Table 3, 2018 Predicted Harvest Dates for Other Varieties, to time ReTain applications and adjust for varieties and locations.

Table 1. 2018 predicted peak harvest dates.

Station	Full bloom date 2018			Predicted harvest date 2018			Observer
	McIntosh	Jons	Reds	McIntosh	Jons	Reds	
SWMREC	11-May	13-May	14-May	8-Sep	24-Sep	1-Oct	Shane
Deerfield	8-May	9-May	10-May	5-Sep	22-Sep	29-Sep	Tritten
Romeo	13-May	14-May	15-May	10-Sep	25-Sep	30-Sep	Tritten
Peach Ridge	16-May	17-May	17-May	14-Sep	26-Sep	2-Oct	Irish-
Hart	21-May	22-May	23-May	19-Sep	30-Sep	7-Oct	Irish-
NWMHRS	22-May	23-May	23-May	20-Sep	2-Oct	8-Oct	Rothwell

Table 2. 2018 predicted peak harvest dates compared to normal and last year.

Station	Days ahead of normal			Days ahead of last year		
	McIntosh	Jons	Reds	McIntosh	Jons	Reds
SWMREC	-1	-3	-3	-11	-9	-9

Deerfield	3	-1	3	-7	-4	-4
Romeo	3	0	3	-8	0	1
Peach Ridge	1	0	3	-9	1	2
Hart	-1	3	7	-6	0	-1
NWMHRS	2	4	9	-1	6	6

Table 3. Normal and 2018 peak harvest dates for varieties for the Grand Rapids area

Variety	Normal date	2018 predicted date
Paulared	8/24	8/24
Gingergold	8/26	8/26
Gala	9/10	9/10
McIntosh	9/15	9/14
Honeycrisp	9/18	9/18
Empire	9/24	9/24
Jonathan	9/26	9/26
Jonagold	9/26	9/26
Golden Delicious	10/2	9/28
Red Delicious	10/5	10/2
Idared	10/10	10/9
Rome	10/15	10/14
Fuji	10/25	10/25
Braeburn	10/25	10/25
Goldrush	11/1	11/1

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WEB SITES OF INTEREST:

Farmer to Farmer – Connecting farmers, cultivating community
<http://www.f2fmi.com>

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://www.canr.msu.edu/nwmihort/nwmihort_northern_michigan_fruit_net

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

Information on cherries:

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

Information on apples:

<http://apples.msu.edu/>

Information on grapes:

<http://grapes.msu.edu>