Northern Michigan FruitNet 2017 Northwest Michigan Horticultural Research Center

Weekly Update

FruitNet Report – May 4, 2017

CALENDAR OF EVENTS

5/5	Wine Grape Spring Kick-Off NWMHRC, 9 am – 5 pm Pre-registration required; contact Jenn Zelinski at goodr100@msu.edu or 231-946- 1510 or Duke Elsner at elsner@msu.edu or to elsner@msu.edu
5/19	Save the Date: Apple Thinning Meeting NWMHRC, 10 – 1 PM, RSVP by May 17 More information to come!
5/9 – 6/27	Leelanau IPM Updates Jim and Jan Bardenhagen's Farm, 12PM – 2PM
5/9 – 6/27	Grand Traverse IPM Updates Wunsch Farms Packing Shed, 3PM – 5PM
5/10 – 6/28	Antrim IPM Updates Jack White Farms, 10AM – 12PM
5/10 – 6/28	Benzie IPM Updates Blaine Christian Church, 2PM – 4PM

What's New?

• Williamsburg Enviroweather tower not fully functionally

Williamsburg Enviroweather tower not fully functionally

This Tuesday, the Environmenther tower located in Williamsburg, was struck by lightning. It has been discovered that 20 meter sensor appears to have suffered damage. All other functions appear to be working at this time.

Currently, the 20 meter sensor seems to be recording temperatures 10 degrees below the actual temperature. MSU Extension is working on getting replacement parts as quickly as possible, and we hope to have a new part in place by this weekend. We will plan on sending out an update via FruitNet on Friday afternoon, regarding the status of reconstruction.

We apologize for this interruption during this critical time.

Save the Date: Apple Thinning Meeting

The NWMHRC and MSU Extension will be holding an apple thinning meeting at the NW Station on May 19, 2017 from 10AM – 1PM. We will be talking about when to start thinning, products and rates to use; timing windows of thinners; how to determine crop load; and precision crop load management strategies. We will also focus on how to use the carbohydrate model, which is now an added feature on the MSU Enviroweather site (please see pictures below). Michigan State University Extension educators Phil Schwallier and Amy Irish-Brown will be our featured speakers.

Lunch will be provided and sponsored by Crop Production Services. Please RSVP by 5PM on May 17, 2017 to guarantee a lunch: Jenn Zelinski 231-946-1510 or goodr100@anr.msu.edu.

MICHIGAN STATE UNIVERSITY

Enviroweather

Weather-based pest, natural resources, and production management tools

xpand All | Contract All

esources for: ee fruit

- Cop Development Apple Carbohydrate
- Thinning **Apple Maturity Model**

Pest Management

- Codling Moth Obliquebanded
- Leafroller Oriental Fruit Moth
- Apple Scab Fire Blight of apple
- blossoms
- Sooty Blotch and Flyspeck of apple and pear Fireblight Interactive
- Predictor
- Fruit Fly Monitoring
- Daily Summary of Weather and Disease Risk for Station
- Station Disease Report: Seasonal History of Wetting Events
- Regional Disease Report

- Resources IPM Resources
- Apples MSUE News for Fruit



Traverse City (NWMHRS), Michigan

Latest observations at Traverse City (NWMHRS)

04/25/2017 09:00 AM (Station online). Measurements by 5-minute average or total unless otherwise indicated.

- 53.9 F Air temperature Rainfall(04/25/2017) 0.0 in.
- 62.1% Relative Humidity Dewpoint 41.2 F
- Wind Direction (hourly average)
- 6.5 Windspeed
- mi./hr. Percent of last full hour wet - leaf wetness (tripod-0%
- Percent of last full hour wet leaf wetness
 - (canopy)

Weather observations and summaries

- NEW Meteogram: Real-time observations in graphical format
- NEW Meteogram: Real-time observations in graphical format
- Overnight temperatures/ hours below freezing
- Rainfall comparisons for Region
- Temperature, rainfall and degree-day summary
- ▶ Rainfall comparisons <u>last 5 years</u> at this station
- Soil conditions
- ▶ More weather for this station



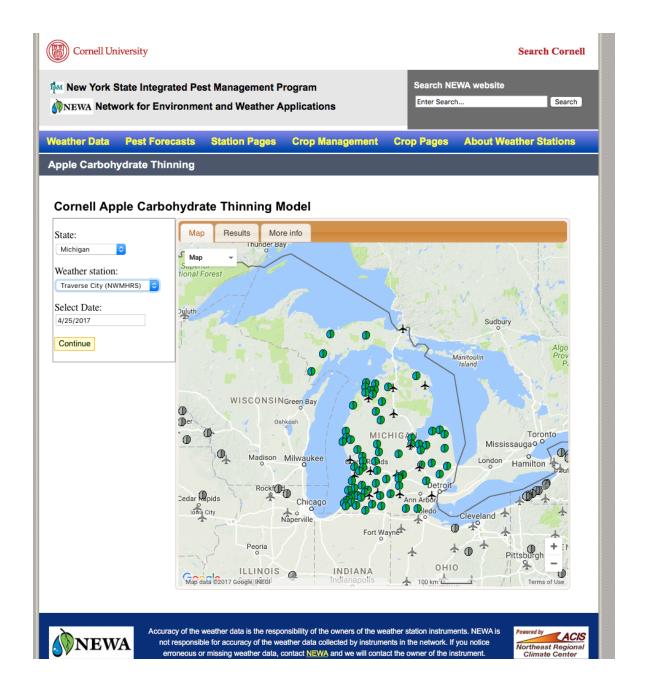
National Weather Service radar and local forecast for Traverse City



Weather Station at Traverse City (NWMHRS)

Thanks to our station sponsors:

This station is hosted at Northwest Michigan Horticultural Research Station and is



Mark your calendars to attend the NW Michigan Winegrape Spring Kick-off meeting

Mark your calendars to attend the NW Michigan Winegrape Spring Kick-off meeting on Friday, May 5 at the Northwest Michigan Horticultural Research Center near Traverse City. This year's Kick-off is a full-day program with a lunch provided on site.

These are the scheduled topics and speakers:

Morning 9:00 – 9:15	Registration
9:15 – 10:15	Vineyard visit- "What's Next for the Research Vineyard"
10:15 – 10:30	Break
10:30 – 10:45	Kerm Campbell from Campbell-Milarch Vines- "Going Commercial"
10:45 – 11:00	Jodi Lundgren from Tecknisk Environmental Engineering & Consulting-"Waste Not the Water Frivolously"
11:00 – noon	Wendy McFadden-Smith, PhD., Brock University, Ont., Canada- "Dealing with Sour Rot in the Vineyard"
Noon – 1:00	Lunch by Ethnic Garden Catering
1:00 2:00	Rufus Isaacs & Keith Mason MSU entomology- "Insect Trapping in the Vineyard"
2:00 – 5:00	Wine tasting Riesling styles from around the world

This meeting is jointly sponsored by Michigan State University Extension and Parallel 45 Vines & Wines, Inc. The registration fee is \$25 for Parallel 45 members or \$35 for non-members; payment will be accepted on-site. pre-registration is required by May 3 so appropriate accommodations for lunch and wine tasting can be made. To pre-register, please send an email with the number of attendees to elsner@msu.edu, or leave a message at 231-922-4822. Or contact Jenn Zelinski at the NWMHRC at goodr100@msu.edu or 231-946-1510

2017 IPM Update Schedule

Emily Pochubay and Nikki Rothwell Michigan State University Extension

Tree Fruit IPM Updates beginning the second week of May through June will highlight management of the seasons current potential pest challenges dictated by weather and pest biology. Attendees are encouraged to bring examples of pests and damage found on the farm to these workshops for identification and discussion. Additionally, we are planning to revisit some of the new Worker Protection Standards as well as host invited speakers from local organizations and MSU at this year's meetings. Workshops will be

held weekly in Leelanau, Grand Traverse, Antrim, and Benzie counties. Tree fruit growers and consultants are welcome to attend meetings at any of the locations and times that are most convenient (see below). These workshops are free and do not require registration. Restricted use pesticide applicator recertification credits (2 credits per meeting) and Certified Crop Advisor credits will be available. We are looking forward to seeing you in a few weeks! For more information, please contact Emily Pochubay (pochubay@msu.edu), 231-946-1510.

Leelanau County

Location: Jim and Jan Bardenhagen, 7881 Pertner Road, Suttons Bay

Dates: May 9, 16, 23; June 6 (tentative), 13, 20, 27

Time: 12PM – 2PM

Grand Traverse County

Location: Wunsch Farms, Phelps Road Packing Shed, Old Mission

Dates: May 9, 16, 23; June 6 (tentative), 13, 20, 27

Time: 3PM - 5PM

Antrim County

Location: Jack White Farms, 10877 US-31, Williamsburg (south of Elk Rapids on the

southeast side of US-31)

Dates: May 10, 17, 24; June 7 (tentative), 14, 21, 28

Time: 10AM - 12PM

Benzie County

Location: Blaine Christian Church, 7018 Putney Rd, Arcadia, MI 49613

Dates: May 10, 17, 24; June 7 (tentative), 14, 21, 28

Time: 2PM - 4PM

Respirator Guidelines to Meet New Worker Protection Standards

Growers will need a medical evaluation and respirator fit test to handle and apply some pesticides this season.

Emily Pochubay and Amy Irish-Brown, MSU Extension

Requirements for a medical evaluation, fit testing, and specific training for use of respirators and the associated record keeping became effective on January 2, 2017. At this time, most growers are aware of this revision to the Worker Protection Standard

(WPS) regulation that requires pesticide handlers and applicators to wear a respirator during mixing/handling, spray applications, and potential other uses as outlined on pesticide labels. Additionally, those who use pesticides with respirator requirements must receive documentation from a physician or licensed health care professional (PLHCP) that has 'respirator evaluation' as part of his/her license to ensure that the pesticide handler is medically able to use a respirator. Not all PLHCPs are qualified to provide the respirator evaluation, but primary care physicians should be able to refer patients to appropriate medical personnel. Alternatively, growers can contact local occupation and environmental health professionals who are more likely to have the credentials needed to provide the appropriate respirator medical evaluation and documentation. Please review the following guidelines to help address some of the recent questions we have received from growers.

Who needs to receive a medical evaluation and how often?

Employees that could be exposed to hazardous airborne contaminants may be required to wear a respirator; respirators and respirator use requirements will be outlined on individual pesticide labels. Some pesticides may require respirators for employees that mix spray material and/or require applicators to wear a respirator during applications of certain pesticides. Employers are responsible for ensuring that employees receive the appropriate equipment, evaluation, respirator fit test, training, and record keeping that conforms to OSHA standards.

According to the EPA, the medical evaluation is required one time per employee unless another evaluation is required due to one of the following reasons:

- The medical determination is only good for a specified length of time.
- The employee reports medical signs or symptoms related to respirator use.
- The PLHCP, supervisor, or program administrator recommends a re-evaluation.
- Fit-test or other program information indicates a need for re-evaluation.
- When changes in the workplace increase respirator stress on an employee.
- The initial medical examination demonstrates the need for a follow-up medical examination.

Who provides the evaluation? What kind of evaluation and documentation are needed?

A physician or licensed health care professional (PLHCP) with respirator evaluation as part of their license will provide the appropriate evaluation using a medical questionnaire or exam that conforms to the OSHA standard. Contact the PLHCP to determine whether a questionnaire or exam will be used and to receive appropriate paperwork. Prior to completing the questionnaire or exam, employers must provide employees with:

- The type and weight of the respirator that the handler will use.
- How long and how frequently the handler will use the respirator.
- How much physical work the handler will do while using the respirator.
- Other PPE the handler will use.

• The temperature and humidity extremes of the working environment.

Contact a primary care physician to receive a referral for a licensed professional, if necessary. Another low-cost (~\$25) and fast alternative for a medical evaluation is OshaMedCert (http://www.oshamedcert.com/Default.aspx), an online service that involves filling out a form and sending it for approval or denial by a PLHCP; individual's health information remains confidential throughout the process. A respirator fit test (see below) will be needed after receiving the medical determination from OshaMedCert.

A written medical determination of the respirator evaluation for each employee is required before the employee can use the respirator. The employer must keep the medical determination documentation for two years. According to the EPA, the required written information to be provided by the PLCHP to the employer must only include:

- Whether or not the employee is medically able to use a respirator.
- Any limitations on respirator use in relation to the medical conditions (if any) of the employee or workplace conditions.
- Need for any follow-up medical evaluations.
- A statement that PLCHP provided the employee with written recommendation; in some cases, this recommendations may simply state that the applicator/person that will use the respirator is capable of wearing a respirator.

Again, the information outlined above is the *only* information that should be provided in the PLHCP's recommendation to the employer to protect the employee's private medical information and avoid violation of HIPAA laws.

What's Next? Respirator Fit Tests.

After receiving a medical evaluation, a fit test is needed to ensure that the respirator forms an adequate seal with an employee's face to provide appropriate inhalation exposure protection. A new fit test is required annually or whenever there is a change to the respirator or a physiological change to the employee that could affect the seal between the respirator and the user's face. Furthermore, fit tests are required for each type of respirator that will be used as indicated by pesticide labels. Finally, employees must undergo the fit test using a respirator with the exact specifications of the respirator that will be used on the job.

Fit tests must follow OSHA protocols, and there are two methods for fit testing. The quantitative fit test (QNFT) requires special equipment and a trained person to conduct the testing. Fit test kits are also available to perform qualitative fit tests (QLFT) by a person that can accurately prepare test solutions, calibrate equipment, perform the test properly, recognize invalid tests and ensure test equipment is working properly. Sources for fit tests include pesticide suppliers or companies such as Gempler's or Grainger.

A primary care physician may be able to provide additional options and referrals for fit test providers in the area. We confirmed that Munson Medical Center's Occupational

Health and Medicine Clinic (550 Munson Ave. Traverse City, MI 49686; Ph: 231-935-8590) is equipped to perform the appropriate respirator exam (~\$80.00) and the fit test (~\$25.00) in one visit by appointment only. Spectrum Health Services in other areas of Michigan provide similar services. Patients that wish to only receive a fit test need to provide appropriate respirator exam result documentation prior to the test.

Additional information regarding respirator requirements and other WPS revisions can be found in the EPA's *How to Comply with the 2015 Revised Worker Protection Standards for Agricultural Pesticides* (https://www.epa.gov/sites/production/files/2016-10/documents/htcmanual-oct16.pdf).

Leelanau County HOUSEHOLD HAZARDOUS WASTE & ELECTRONICS COLLECTIONS

NOW ACCEPTING A MAXIMUM OF 10 - ONE GALLON CONTAINERS OF LATEX PAINT

The collections are for Leelanau County Households and covered as part of the \$29 recycling fee on winter taxes. The collections are held from $8 \, \text{AM} - 2 \, \text{PM}$ and registration is required. Please call the Planning Dept. at 231-256-9812 to register.

2017 Saturday Collections

5/20 - Leelanau County Government Center

7/15 - Glen Lake School

8/19 - Peshawbestown

10/7- Elmwood Twp., Cherry Bend Park off Avondale Lane

We are always looking for volunteers to help with the collections, please let us know if you are interested.

Thanks,

Leelanau Planning Department

MSU Extension programs and material are open to all without regard to race, color, national origin, gender, gender identity, religion, age, height, weight, disability, political beliefs, sexual orientation, marital status, family status, or veteran status. Michigan State University is committed to providing equal opportunity for participation in all programs, services and activities.

WEB SITES 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:

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

Information on apples: http://apples.msu.edu/

Information on grapes: http://grapes.msu.edu

Fruit CAT Alert Reports: http://news.msue.msu.edu