

Northern Michigan FruitNet 2016 Northwest Michigan Horticultural Research Center

Weekly Update

FruitNet Report – October 27, 2016

CALENDAR OF EVENTS

- | | |
|-------------------------|--|
| 11/2 | Whole Farm Revenue Protection
Insurance Workshop
NWMHRC, 1-4PM |
| 11/9 | SWD Summit, 8:30 AM to 5:30 PM
NWMHRC, Please RSVP |
| 01/17 - 01/18/17 | 2017 Orchard and Vineyard Show
Grand Traverse Resort |

What's New?

- **SWD Summit – Agenda**
- **MDARD Announces Value-Added Grant Opportunity
Proposals Due by 3 p.m., Thursday, November 17, 2016**
- **Outstanding apple presentations on tap at 2016 Great
Lakes EXPO**
- **Rodent management in commercial apple orchards
requires an integrated approach**

SWD Summit – Agenda

Michigan State University and Cherry Marketing Institute are hosting a third annual spotted wing Drosophila (SWD) Summit on **November 9, 2016 from 8:30 AM – 5:30 PM** at the Northwest Michigan Horticultural Research Center. This day-long meeting will bring together growers, researchers, consultants, processors, and other industry leaders to discuss the challenges of SWD during the 2016 and past field seasons. This pest has profoundly impacted the way we manage insects in cherries in Michigan. This meeting will be an in-depth discussion to continue to develop an industry approach to sustainably manage SWD in Michigan cherries.

Spotted Wing Drosophila Summit

Northwest Michigan Horticultural Research Center

November 9, 2016

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|---------------|--|
| 8:30 | <i>Welcome and Refreshments</i>
Dr. Nikki Rothwell, Michigan State University Extension and AgBioResearch
Phil Korson, Cherry Marketing Institute
Bob Tritten, Michigan State University Extension |
| 8:45 – 9:05 | <i>Decision Support Tools for Managing SWD in Michigan</i>
Dr. Julianna Wilson, Michigan State University, Dept. of Entomology |
| 9:05 - 9:25 | <i>Current Status of SWD Management in Trentino, Italy</i>
Dr. Larry Gut, Michigan State University, Dept. of Entomology
Dr. Claudio Ioriatti, Research and Innovation Center, Foundation of Edmund Mach |
| 9:25 – 9:50 | <i>SWD Seasonal Biology and Use of Wild Hosts</i>
Dr. Greg Loeb, Cornell University, Dept. of Entomology
ZOOM Teleconference Presentation |
| 9:50 – 10:05 | <i>Sugar and Yeast Adjuvants for Enhancing Insecticide Efficacy for SWD Control</i>
Dr. Greg Loeb, Cornell University, Dept. of Entomology
ZOOM Teleconference Presentation |
| 10:05 – 10:30 | <i>Improving Monitoring Tools for Spotted Wing Drosophila</i>
Dr. Larry Gut, Michigan State University, Dept. of Entomology |
| 10:30 – 10:45 | Break |
| 10:45 – 11:15 | <i>2016 NWMHRC SWD Research Overview</i>
Dr. Nikki Rothwell, Michigan State University Extension and AgBioResearch |

- 11:15 – 11:55 *Spotted Wing Drosophila Update from the West Coast*
Dr. Betsy Beers, Washington State University, Dept. of Entomology
ZOOM Teleconference Presentation
- 11:55 - 12:40 Lunch
Catered by Ethnic Garden Catering
- 12:40 – 1:20 *Resistance, Rain Fastness, and Coverage: Lessons Learned from Blueberries*
Dr. Phil Fanning, Michigan State University, Dept. of Entomology
- 1:20 - 1:50 *Potential Challenges of Abandoned Orchards with Increasing SWD Populations*
Brad Deacon, Director of the Office of Legal Affairs, Michigan Dept. of Agriculture and Rural Development
- 1:50 – 2:30 *Grower Testimonials: Managing Spotted Wing Drosophila in Cherries in 2016*
Jim Laubach, HortSystems, Honor, MI
Zane Gray, Zane Gray Farms, Benzonia, MI
Rick Saylor, Saylor Orchards, Williamsburg, MI
- 2:30 – 3:00 *2016 SWD Infestation Comparisons in Conventional and Organic Cherry Orchards*
Dr. Mark Whalon, Michigan State University, Dept. of Entomology
- 3:00 – 3:40 *Spotted Wing Drosophila's Natural Enemies and the Importance of Landscape Ecology for Classical Biological Control*
Dr. Kent Daane, University of California, Dept. of Environmental Science, Policy, and Management
ZOOM Teleconference Presentation
- 3:40 – 4:30 *Participant Reactions and Prioritization*
Group Discussion
- 4:30 – 5:30 Refreshments

Please contact Jenn at 231-946-1510 or goodr100@msu.edu to RSVP for this event.

Agricultural Survey Responses Needed - New Counties Added!

Please forward the link on to other Leelanau growers who may have not filled out the survey yet. Here is the link for the agricultural survey: <https://www.surveymonkey.com/r/9CX3VRP>

Here are the two links for Benzie and Manistee counties:

Benzie County: <https://www.surveymonkey.com/r/5KKDVQB>

Manistee County: <https://www.surveymonkey.com/r/ZNQL8FH>

MDARD Announces Value-Added Grant Opportunity Proposals Due by 3 p.m., Thursday, November 17, 2016

LANSING, Mich. – Today, the Michigan Department of Agriculture & Rural Development announced a competitive grant program aimed at helping promote and enhance Michigan’s \$101.2 billion food and agriculture industry. The Value-Added Grant Program is accepting abstract grant proposals until 3 p.m. (EST) on Thursday, November 17, 2016. Proposals received after 3 p.m. will not be considered.

MDARD is accepting proposals intended to help expand value-added agricultural processing and food hub development in the state as well as access to fresh nutritional Michigan grown foods. Those interested in applying should visit www.michigan.gov/mdardgrants to view the abstract application and program overview.

The grant will be awarded in a maximum amount of \$150,000 and require a minimum 30 percent match. The value-added abstract proposals will be evaluated through a competitive process. Applicants for grant funds will be asked to describe how the project both has the potential to impact and produce measurable outcomes for the state’s food and agriculture industry.

MDARD has updated the process for this cost-reimbursement grant program by implementing a required abstract; and if projects are favorably reviewed, applicants will be invited to submit a full proposal in December 2016.

Any additional communications concerning this Request for Proposal should be sent to mda-grants@michigan.gov. Abstract proposals must be received via email at mda-grants@michigan.gov no later than 3 p.m. (EST) on Thursday, November 17, 2016. Proposals received after 3 p.m. will not be considered.

For more information on MDARD's grant programs, go to www.michigan.gov/mdardgrants.

Grower Training Course - Produce Safety Alliance

This event is brought to you by Michigan State University Extension, MDARD, Michigan Farm Bureau and the Produce Safety Alliance

9 AM – 5:30 PM

November 2, 9 or 10, 2016

The PSA Grower Training Course is one way to satisfy the FSMA Produce Safety Rule requirement outlined in § 112.22(c) that requires 'At least one supervisor or responsible party for your farm must have successfully completed food safety training at least equivalent to that received under standardized curriculum recognized as adequate by the Food and Drug Administration.'

The course will provide a foundation of Good Agricultural Practices (GAPs) and FSMA Produce Safety Rule requirements, and details on how to develop a farm food safety plan.

After attending the entire course, participants will be eligible to receive a certificate from the Association of Food and Drug Officials (AFDO) that verifies they have completed the training course. To receive a AFDO certificate, a participant must be present for the entire training and submit the appropriate paperwork to their trainer at the end of the course. Trainings are being offered in the following locations:

- Wednesday November 2 Hart Community Center, Hart MI
- Wednesday November 9 Krysiak's house , Bay City MI
- Thursday November 10 Jordan Tatter Center, SWMREC, Benton Harbor

Agenda

8:30 am Registration

9 am Welcome and Introduction

9:15 am Introduction to Produce Safety

10 am Worker Health, Hygiene, and Training

11 am Break

11:15 am Soil Amendments

Noon Wildlife, Domesticated Animals, and Land Use
12:45 pm Lunch
1:30 pm Production Water
2:15 pm Postharvest Water
3:15 pm Break
3:30 pm Postharvest Handling and Sanitation
4:30 pm How to Develop a Farm Food Safety Plan
5:15 pm Final Questions and Evaluations

For More Information or to Enroll Online visit:
<http://events.anr.msu.edu/2016growerproducesafety/>

Whole Farm Revenue Protection Insurance Workshop - Traverse City

In partnership with Spartan Insurance, Michigan State University Extension is providing a whole farm revenue protection (WFRP) insurance workshop. This workshop will include a tailored presentation and examples of the specialty crops in your area. The workshop will include Dr. Adam J. Kantrovich of Michigan State University Extension providing a short educational briefing on the Noninsured Crop Disaster Assistance Program also known as NAP and the available web-based decision tool.

The workshop will last about three hours and will include a question and answer portion.

Join us at this MSU Extension meeting to learn more about whole farm revenue protection insurance and what it could mean for your business.

The meeting is free but pre-registration is required.

Date & Time	Location
<i>Nov. 2, 2016 1 - 4 p.m.</i>	<i>Northwest Michigan Horticultural Research Center 6686 S. Center Highway Traverse City, MI 49684</i>

The last date for online registration is November 1, 2016.
Online registration closes at 11:59 p.m. on the Registration End Date.

Register here: <http://events.anr.msu.edu/WFRPTraverse/>

This program is sponsored by Spartan Crop Insurance.

Be aware of changes to EPA's Worker Protection Standard January 2017

These meetings and resources will help growers who use pesticides comply with changes to the federal Worker Protection Standard.

Posted by [Tom Dudek](#), Michigan State University Extension, MSUE News



The [Environmental Protection Agency](#) (EPA) has made a significant number of changes to the [Worker Protection Standard](#) (WPS) that were put into effect in 1992. The new changes require growers of agricultural crops, including greenhouses and nurseries, to be compliant starting Jan. 2, 2017.

Changes in the new rules include:

- Worker training
- Hazard communication
- Notification of treated areas
- Minimum age for handlers and early entry workers
- Entry restrictions during applications for outdoor production
- Handler suspends application in certain situations
- Exemptions and exceptions
- Basic pesticide safety information
- Personal protective equipment
- Decontamination supplies
- Emergency assistance

- Definitions of “family,” “enclosed space production” and “employ”

[Michigan State University Extension](#) is offering [EPA WPS Outreach Sessions](#) throughout Michigan in January 2017 to help growers understand the changes. These sessions will take place **Jan. 10 in Clarksville, Jan. 17 in Traverse City, Jan. 24 in Benton Harbor and Jan. 31 in New Era.** Visit [EPA WPS Outreach Sessions](#) to register and for more information.

The [Pesticide Educational Resources Collaborative](#) has some excellent written materials to help you comply with the changes, including checklists to be sure you have covered all the changes, an employee training video for worker training and the “[How to Comply With the 2015 Revised Worker Protection Standard For Agricultural Pesticides](#)” manual. This updated manual supersedes the 2005 version. Changes to the Standard have made the 2005 version obsolete. The revised “How to Comply” manual includes:

- Details to help you determine if the WPS requirements apply to you.
- Information on how to comply with the WPS requirements, including exemptions, exceptions, restrictions, options and examples.
- A “Quick Reference Guide,” which is a list of the basic requirements (excluding exemptions, exceptions, etc.).
- New or revised definitions that may affect your WPS responsibilities.
- Explanations to help you better understand the WPS requirements and how they may apply to you.

The [Michigan Department of Agriculture and Rural Development](#) enforces the WPS rules in Michigan. They have completed planned use inspections with many growers over the past few years as a method to see how growers are complying with the Standards.

I encourage you to review the changes and be in a position to implement them when your workers show up Jan. 2, 2017.

Outstanding apple presentations on tap at 2016 Great Lakes EXPO

Winter is coming, and that means it’s time for education. Register now for the 2016 Great Lakes Fruit, Vegetable and Farm Market EXPO, Dec. 6-8 in Grand Rapids, Michigan.

Posted by [Amy Irish-Brown](#), Michigan State University Extension, MSUE News



Even though apple harvest is wrapping up for the 2016 season, there is still much to do – orchard clean up or removal, late-season mowing, [rodent management](#), equipment repairs and education. Yes, education is a vital component of your apple operation. The modern orchard system is changing fast and keeping up with new technology, and management processes is just as important as any other task required in a commercial apple orchard. [Michigan State University Extension](#) offers many educational opportunities throughout the year, and the biggest offering for specialty crops is the [Great Lakes Fruit, Vegetable and Farm Market EXPO](#).

Apple production is complex, and there are so many topics to cover. We try to find the best presenters to speak at EXPO on the topics growers tell us are important during the season. This year, there is one general tree fruit session and two apple sessions.

The **Tree Fruit session** is Tuesday, Dec. 6 from 9–11 a.m. and the topics cover a wide range, including pears, apple thinning, invasive species and spray technology. The topics and speakers are:

- Applying New Technologies to Develop Innovative, High-Density Pear Orchards for Fresh Markets—Todd Einhorn, Horticulture Department, Michigan State University
- Models and Materials to Make Bloom Thinning More Reliable in the Eastern U.S.—Greg Peck, Sustainable Fruit Production, Cornell University
- Invasive Species Trends and Outlook for 2017—Larry Gut, Entomology Department, Michigan State University
- Crop-Adapted Spraying—Doing More with Less—Jason Deveau, Application Technology Specialist, OMAFRA, Ontario, Canada

The **Apple I** session is Tuesday, Dec. 6 from 2–4 p.m. and the topics covered will include pruning and training, an apple insect update, tree architecture and orchard efficiency. The last two presenters in this session are the newest additions to the MSU fruit team in the MSU Department of Horticulture—Courtney Hollendar and Todd Einhorn. These positions were also supported by the Michigan Tree Fruit Commission with your grower dollars, so be sure to come hear what they have to share with you in their presentations. The topics and presenters for Apple I are:

- Why, When, and How You Should Transition from A 3-D to A 2-D Canopy?—Mario Miranda Sazo, Lake Ontario Fruit Program, Cornell Cooperative Extension, Newark, New York
- MSU Tree Fruit Entomology Research Summary—Larry Gut, Entomology Department, Michigan State University
- Designer Tree Architecture for Orchards of the Future—Courtney Hollendar, Horticulture Department, Michigan
- Increasing Tree Fruit Efficiency and Grower Profitability—Introduction to a new, applied research and outreach program—Todd Einhorn, Horticulture Department, Michigan State University

The **Apple II** session is Wednesday, Dec. 7 from 2–4 p.m. with topics covering plant growth regulators, Honeycrisp storage, fire blight and pruning precision. Topics and presenters are:

- Apple Harvest Management and PGR Enlightenment—Phil Schwallier, District Horticulture and Marketing Educator, MSU Extension, Clarksville, Michigan
- Honeycrisp Harvest and Storage Review—Randy Beaudry, Horticulture Department, Michigan State University
- Fire Blight—Factors that affect pathogen growth and fuel epidemics—George Sundin, Plant, Soil and Microbial Sciences Department, Michigan State University
- Continually Fine-Tune Your Fruit Production Strategy and Execution—Mario Miranda Sazo, Lake Ontario Fruit Program, Cornell Cooperative Extension, Newark, New York

I hope you find the time to attend all of these sessions, as well as the many other offerings during the [Great Lakes Expo](#), Dec. 6–8 in Grand Rapids, Michigan. **Pre-register by Nov. 16** for lower registration fees and to save time when you arrive at the EXPO. **[Online registration will be open from Sept. 26 to Nov. 16.](#)** By pre-registering, you save \$15 on regular registration fees. Pre-registration also assures you can purchase tickets for the special events you want to attend. Register online now at: [Register for the 2016 EXPO.](#)

If you pre-register by Nov. 16, your receipt, name badge and any special event tickets you order will be mailed to you prior to the EXPO. When you arrive in Grand Rapids, just pick up your badge holder and program at the pre-registration booth and you can then go directly into the trade show and education sessions. If your registration is received

after Nov. 16, your name badge and tickets **will not** be mailed to you. You will need to pick them up onsite at the Registration Help Desk.

Rodent management in commercial apple orchards requires an integrated approach

Things to consider when dealing with mice and voles in the apple orchard.

Posted by [Amy Irish-Brown](#), Michigan State University Extension, MSUE News



Vole tunneling. Photo: Amy Irish-Brown, MSU Extension.

As the 2016 apple harvest wraps up in many areas in Michigan in the next week or so, there are many tasks to get done before winter gets here. [Michigan State University Extension](#) suggests one task best done as soon as possible after harvest as the colder weather moves in is vertebrate management and specifically, vole and mouse management.

In many apple blocks this fall, you can find evidence of tunnels or runways of mice and vole activity. While it doesn't appear to be unusually high traffic this fall, it is still present and an indication of rodents working in the area. With all the rain in the last few weeks, grass and weeds in orchard areas seem thicker than in some years, which could make rodent activity less apparent. Managing any vertebrate pest requires a preventative approach and with voles, it begins prior to snowfall once harvest is complete. Even if rodent activity appears lower right now, preventative management still needs to be considered to prevent future damage.

The rodents, often lumped together as “mice,” in an orchard system could be a deer mouse, a white-footed mouse or a vole. While they are different species with slightly different habitats, the management approach for all is the same. All mice in orchards can cause a significant amount of damage along the edges of blocks near drainage ditches or woodlots. Nearby corn or soybean fields can provide a fall food source for mice who will then move into the orchard and feed on trunks and roots.

Controlling vertebrate pests requires multiple approaches, which in general include exclusion, habitat modification, repellents, trapping and rodenticides. In an open and large scale commercial orchard setting, exclusion, trapping or repellents are not effective. This leaves habitat manipulation and rodenticides, and both are needed for a successful mice and vole abatement program.

Habitat modification such as a close mowing of grass in row middles and ditches late in the fall provides a two-fold management purpose – reduce favorable habitat for mice activity and expose rodents more readily to predators that help with population management. Cleaning up fencerows to reduce habitat is also needed.

Rodenticides are another approach in management programs, as they provide the quickest and most practical means of bringing large populations of mice and voles under control. Bait should be applied when dry and fair weather is predicted for at least three days and before any significant snowfall accumulation. If there is a great deal of alternate food (fallen apples in a block or nearby field corn), baiting might need to be done more than once to be most effective. If mice populations are very high, a second rodenticide application might be needed. As with any pest management program, but especially when using rodenticides, the risks to non-target organisms needs to be taken into account and prevented.

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>