

# Northern Michigan FruitNet 2014

## Northwest Michigan Horticultural Research Center

### Weekly Update

February 10, 2015

#### CALENDAR OF EVENTS

##### 2015

- 2/3-4/7**      **Agripreneur Class Series**  
Northwest Michigan Works!  
1209 S. Garfield Avenue, Traverse City
- 2/12**        **West Michigan Agriculture Employers Meeting**  
Hart
- 2/18-20**     **MSU Tree Fruit IPM School**  
The Eberhard Center, Grand Rapids
- 2/26**        **Pesticide Applicators Training & Exam**  
Central Lake District Library
- 3/4**         **Winery Development Pre-Conference**  
MSU – Kellogg Hotel & Conference Center
- 3/4-6**       **Michigan Grape & Wine Conference**  
MSU – Kellogg Hotel & Conference Center  
[www.michiganwines.com/conference](http://www.michiganwines.com/conference)
- 3/14**        **Midwest Nut Producers Council Annual Meeting**  
Clarksville Experiment Station
- 3/25**        **Benzie/Manistee Hort Soc. Annual Meeting**  
TBD
- 3/26**        **Ag. Labor Meeting**  
NWMHRC
- 3/31**        **West Central Spring Hort Meeting**  
Hart United Methodist Church, Hart
- 4/10-11**     **Great Lakes Hop and Barley Conference**  
Grand Rapids
- 4/18**        **Healthy Forests – Caring for Our Trees**  
Grand Traverse Conservation District
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SAVE THE DATES!

The NWMHRC staff, MSU Extension, and AgBioResearch are putting together three upcoming meetings that may be of interest to growers in northwest Michigan:

- 1) **March 25, 2015.** The Benzie Manistee Horticultural Society is hosting a half-day educational meeting on topics related to hard cider. Presentations will include the following: 1) an overview of the Michigan and US cider industries, 2) choosing cider varieties, 3) growing cider apples, 4) steps to opening a cidery, 5) consumer preferences, and 6) current and future packaging strategies. The educational session will culminate in a cider tasting followed by the Benzie-Manistee Hort. Society annual meeting and dinner. The location of the date is yet to TBD, but we are making inquiries now (location in NW MI for sure!). The educational session cost is \$20 and the dinner is also \$20. *Checks can be made payable to the **Benzie Manistee Horticultural Society**.*
- 2) **March 26, 2015.** The Northwest Michigan Ag. Labor meeting will take place at the Northwest Michigan Horticultural Research Center. This day-long program will start at 8:30, and presenters will discuss immigration control and enforcement: new Information and life in a border area, an update from Craig Anderson, Farm Bureau: Dept. of Labor, importance of being a competitive employer, how to best provide feedback on employee performance, how to share labor efficiently, an update from Migrant Services and Telamon, onboarding new migrant labor employees, and an overview of the current grower/new immigration programs. The program will cost \$25 and will include lunch. *Checks can be made payable to **Michigan State University**.* Please call 231-533-8818 to reserve a space at this meeting.
- 3) **March 31, 2015.** The west central spring horticultural meeting will be held at the Hart United Methodist Church, Hart, MI. The cost for this meeting is \$25, if you pre-register; the cost will include lunch. *Checks can be made payable to **Michigan State University**.* Please call the Oceana County Extension office to reserve a space at this meeting: 231-873-2129. Growers that register at the door *without* a reservation will pay \$35 for this event.

The following presentations will take place from **8am-4:30pm on March 31<sup>st</sup>**:

- |             |   |
|-------------|---|
| 7:30-8:00   | <b>Coffee and Refreshments</b>  |
| 8:00-8:30   | <b>Introduction to the MAEAP</b><br><i>Dan Busby and Lynda Herremans, MAEAP Program</i>   |
| 8:30-9:00   | <b>Short and Long-term Weather Forecasts: What is in Store for 2015?</b><br><i>Dr. Jeff Andresen, Dept. of Geography, MSU</i>                                 |
| 9:00-9:40   | <b>Understanding Maximum Residue Limits (MRLs): A Key Ingredient in Michigan Cherry Growers' Survival</b><br><i>Dr. Mark Whalon, Dept. of Entomology, MSU</i> |
| 9:40-10:10  | <b>Best Management Practices for Pollinators in Michigan Orchards</b><br><i>Dr. Julianna Wilson, Dept. of Entomology, MSU</i>                                 |
| 10:10-10:30 | <b>BREAK</b>  |
| 10:30-11:00 | <b>Mating Disruption Using Aerosol Emitters in Michigan Apples</b><br><i>Dr. Larry Gut, Dept. of Entomology, MSU</i>  |
| 11:00-11:30 | <b>Using Pyrethroid Sprays to Control SWD and their Impacts on Spider Mite Populations</b><br><i>Emily Pochubay, NWMHRC, MSUE</i>                             |
| 11:30-12:00 | <b>Gaining a Better Understanding of Insecticide Efficacy against SWD</b><br><i>Dr. Nikki Rothwell, NWMHRC and MSUE</i>                                       |

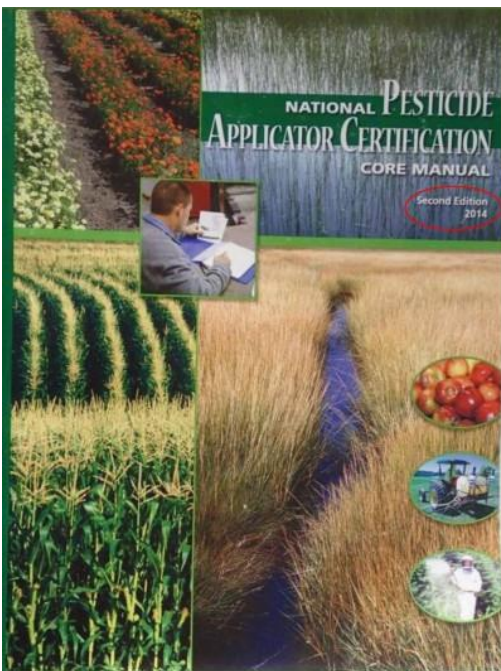
- 12:00-12:50    **LUNCH**
- 12:50-1:20    **Using Copper and other Compounds to Control Cherry Leaf Spot**  
*Dr. George Sundin, Dept. of Plant, Soil, and Microbial Sciences*
- 1:20-2:00    **Using Precision Orchard Management Techniques to Grow the Best Apples**  
*Phil Schwallier, MSUE*
- 2:00-2:30    **Understanding Phytotoxicity Risks in Apple**  
*Amy Irish-Brown, MSUE*
- 2:30-3:00    **Apple Disease Management Update for 2015**  
*Dr. George Sundin, Dept. of Plant, Soil, and Microbial Sciences*
- 3:00-3:30    **Thinning Strategies for an Optimal Crop in 2015**  
*Phil Schwallier, MSUE*
- 3:30-3:45    **BREAK**
- 3:45-4:30    **New Strategies for Successful Record Keeping and FSMA Update**  
*Phil Tocco, MSUE*

## **REVISED CORE PESTICIDE APPLICATOR (RUP) STUDY MANUALS**

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**The National Pesticide Applicator Certification Core Manual has been revised and a new edition released. This is the study manual Michigan uses to certify Private (RUP) and Commercial Pesticide Applicators and Registered Technicians by examination.**

Posted on **January 30, 2015**, MSUE News, by **John Stone**, Pesticide Safety Education Program



The National Pesticide Applicator Certification Manual Core Manual Second Edition, [Private \(E3007KITC\)](#) and [Commercial \(E3008KITC\)](#) Core Manuals, are now being shipped from the [Michigan State University Extension Bookstore](#). The price remains at \$30.

Both the First Edition and Second Edition are good for taking the MDARD Core Exams. **MDARD has compared content of each edition and determined there is no need to change the Private or Commercial core exams.**

[Michigan State University Extension](#) locations with First Editions in inventory may continue to sell them until their supplies are gone. There are no changes to Michigan Private and Commercial Supplements that are shipped with the Core Manuals.

## Frequently asked questions

**Q:** How do I know which manual I have?

**A:** The new Core Manuals will have the words “Second Edition 2014” below the title. An image of the new manual is on the right.

**Q:** Where do I go to buy study manuals?

**A:** Manuals are available from the MSU Extension online store: [www.shop.msu.edu](http://www.shop.msu.edu). Phone: 800-709-9195. Email: [shop@msu.edu](mailto:shop@msu.edu). Orders can be shipped or picked up in person at the MSU Stores, Angell Building, Michigan State University, [166 Service Rd., East Lansing, MI 48824](#). A map and directions are available on their website. Store hours are 7:30 a.m. to 5:00 p.m., EST. Many [county MSU Extension offices](#) offer manuals. Please call ahead for availability and hours of service. A [directory of MSUE office locations](#) can be found at the [MSU Extension website](#).

**Q:** Which Core Manual is the MDARD exam based on?

**A:** Currently both editions have the right information to study and successfully pass the Private or Commercial Core Applicator, or Registered Technician exam. **MDARD has compared content of each edition and determined there is no need to change the Private or Commercial core exams.**

**Q:** Has the price changed for the new manual?

**A:** No, the price remains \$30.

**Q:** Can I get an electronic, or PDF, version of the Core Manual?

**A:** Michigan only distributes printed copies of the Core Manual. This assures accuracy of the content and compliance with laws and regulations. Unauthorized alteration of content and redistribution by electronic means is a significant risk to the integrity of the certification program.

**Q:** The Core Manual I just bought is a First Edition. Can I return it for a refund or exchange for a new one?

**A:** No. All the material in the First Edition is still relevant to the knowledge required of every Certified Applicator to pass the MDARD exams. **MDARD has compared content of each edition and determined there is no need to change the Private or Commercial core exams.**

**Q:** Why was the Core Manual revised?

**A:** There are several reasons. The original manual was written 10 years ago. The Second Edition offers new information on topics such as pollinator protection, drift management, PPE and formulations. It has also been shortened by 43 pages in response to suggestions from the applicator community.

**Q:** I have signed up to attend a review session, what should I do?

A: Attend as planned. MSU Extension educators and [Pesticide Safety Education Program](#) trainers have the right information to help you prepare for the exam.

Q: Will the Spanish language version of the Core Manual be revised?

A: No, not at this time.

Q: I am a Registered Technician, how does this affect me?

A: Registered Technicians use the same Core Manual as Private and Commercial applicators. Nothing has changed for Registered Technician certification.

This article was published by [Michigan State University Extension](#). For more information, visit <http://www.msue.msu.edu>. To have a digest of information delivered straight to your email inbox, visit <http://bit.ly/MSUENews>. To contact an expert in your area, visit <http://expert.msue.msu.edu>, or call 888-MSUE4MI (888-678-3464).

## Michigan Department of Agriculture and Rural Development Announces Specialty Crop Grant Opportunity

### *Proposals due to MDARD by March 26, 2015*

Michigan Department of Agriculture and Rural Development (MDARD) Director Jamie Clover Adams today announced new opportunities for Michigan businesses thanks to the Specialty Crop Block Grant Program through the United States Department of Agriculture (USDA) Ag Marketing Services. The program is designed to enhance the competitiveness of Michigan's specialty crops. Grant proposals must be received by MDARD no later than 3 p.m. on March 26, 2015 by submitting them to [MDA-grants@Michigan.gov](mailto:MDA-grants@Michigan.gov).

"This grant program provides a unique opportunity for our state's specialty crop producers to enhance their profitability by expanding their domestic and international markets," said Clover Adams. "Specialty crops play a vital role in the diversity of our agricultural economy and these federal grants help provide additional consumer access to Michigan specialty crops. These funds also help improve the quality and availability of these products so our specialty crop industry remains competitive while growing Michigan's economy."

The grant funding is contingent on the availability of funds from USDA and Michigan's allocation has yet to be determined.

The grants, ranging from \$10,000 to \$100,000, enhance the competitiveness of the state's specialty crops, including, but not limited to: research, promotion, marketing, nutrition, trade enhancement, food safety, food security, plant health programs, education, increased knowledge and consumption, increased innovation, improved efficiency and reduced costs of distribution systems, environmental concerns and conservation, product development, good agricultural practices, good handling practices, and good manufacturing practices.

Eligible applicants include non-profit organizations, local, state, and federal government entities and for-profit organizations. The organizations must be legal entities recognized by the IRS, and applicants must reside and/or conduct their business or organization in Michigan. Applications should demonstrate how the project will potentially produce measurable impacts for the specialty crop industry as a whole; and not-for-benefit to a specific product, single organization, institution, or individual.

For program information, application form, or submission criteria, please visit [www.michigan.gov/mdard](http://www.michigan.gov/mdard) or contact Nancy Nyquist at [nyquistn@michigan.gov](mailto:nyquistn@michigan.gov) or 517-284-5735.

## PESTICIDE APPLICATORS' TRAINING AND EXAM

### Morning Training Seminar

There will be a Pesticide Applicators Training Seminar on **Thursday, February 26th**, 2015 at the Central Lake District Library located at 7900 Maple Street; Central Lake, MI 49622. The program will begin at 8:00 AM and run until 12:00 PM. Lunch will not be provided. Participants will review the Core Applicators Manual with MSU Extension Agriculture Educator James DeDecker. This seminar is an excellent opportunity to prepare for the MDARD Pesticide Applicator Examination. Participants may also claim four MDARD Pesticide Recertification Credits in the Private Core or Commercial Core categories.

The charge for attending this program is \$20. Pre-registration is required. Contact James DeDecker, Extension Educator Presque Isle County at 989-734-2168 more information and to register. Accommodations for persons with disabilities may be requested by calling the Presque Isle MSUE office at 989-734-2168 **by Feb. 19th**, 2015 to ensure sufficient time to make arrangements. Requests made after this date will be met when possible.

### **Afternoon MDARD Exam**

There will be a MDARD Pesticide Applicator Exam offered on Thursday February 26th, 2015 at the Central Lake District Library located at 7900 Maple Street; Central Lake, MI 49622. The exam will begin at 1:00 PM and run until exams are complete. Participants may take either the Private Applicator or Commercial Applicator Exams.

The charge for this exam session is \$50 for Private Applicators and \$75 for Commercial Applicators. Pre-registration is required. Visit [www.michigan.gov/pestexam](http://www.michigan.gov/pestexam) or call 1-800-292-3939 to register. Bring a check to the exam payable to "State of Michigan". Contact James DeDecker, Extension Educator Presque Isle County at 989-734-2168 more information. Accommodations for persons with disabilities may be requested by calling the Presque Isle MSUE office at 989-734-2168 by Feb. 19th, 2015 to ensure sufficient time to make arrangements. Requests made after this date will be met when possible.

### **2015 TREE FRUIT SCHOOL, FEBRUARY 18-20, EBERHARD CENTER IN GRAND RAPIDS, MI**

The 2015 Tree Fruit School is just two weeks away and the deadline for online registration (<http://events.anr.msu.edu/TreeFruitIPMSchool>) at a rate of \$225 per person is **Feb. 13**. Only onsite registration at \$275 per person is available after Feb 13. If you need assistance registering online, please call Jackie Baase or Emily Pochubay at 231-946-1510. For more program information, visit <http://events.anr.msu.edu/TreeFruitIPMSchool>.

Registration includes breakfast, lunch and breaks on Wednesday and Thursday, breakfast and breaks on Friday, and a binder with all course materials. Dinner and lodging are on your own. A block of rooms have been reserved at the Holiday Inn Downtown Grand Rapids, 310 Pearl St NW, Grand Rapids, MI 49504 at a rate of \$115 per night.

Certified Crop Advisor Credits and Pesticide Applicator Recertification Credits (RUP) will be available.

### **INDIANA AND MICHIGAN WATER USE REPORTING – MEETING THE REQUIREMENT**

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**Agricultural water users in both Indiana and Michigan with the capacity to pump 70 gallons per minute or more need to report their water use by April 1.**

Posted on **January 27, 2015**, MSUE News, by [Lyndon Kelley](#), Michigan State University Extension

Water use reporting and registration are important parts of water resource management in both Indiana and Michigan. Both states signed onto the Great Lakes Compact in which the federal government acknowledged each Great Lakes state's ability to manage the water resource of the basin, including the ability to deny diversions of water to areas outside the Great Lakes watershed.

Indiana uses the term Significant Water Withdrawal Facility (SWWF), where Michigan refers to these as Large Volume Water Uses (LVWU). In either state these terms apply to water use with the capacity to withdraw 100,000 gallons per day (70 gallons per minute). One or more withdrawals at a site having a 100,000 gallons or greater capacity, or combined capacity, per day, also meets the SWWF or LVWU water use definition. Water use reporting is required for all agricultural water uses (irrigation, cooling, animal, watering, etc.) from both surface and ground water withdrawals. The annual report is due by **April 1** of the following year and includes monthly water use estimates.

In Michigan, agricultural LVWU reports can only be completed by use of the [online system](#). An [online tutorial](#) on the use of the new reporting system is available. Michigan will not be sending individual reminders for reporting; rather the expectation is that water users will use the computer system each year to report annual use and new withdrawals. Alternate reporting system can only be accepted with the permission from MDARD. If you have no way of using the new online system or have questions about the system contacts Abigail Eaton at [eatona@michigan.gov](mailto:eatona@michigan.gov) or 517-284-5612.

Online water use reporting will be very important as the management of water increases, allowing producers to build their database within the reporting system. Both states provided online reporting systems for the first time for the 2012 water use year. In Michigan only your 2012 and 2013 reports are loaded into the new system making it very important for water users to review their record back to 2004 and load all previously unreported registered water withdrawal facilities into the online system even if they were inactive for 2014 year.

Reporting LVWU withdrawals established, but not in the system prior to 2006 will not meet the Michigan Registration requirement. In 2008 Large Volume Water users had a one time opportunity to report 2007 or 2008 water use and also meet the States registration requirement. The only current system available to meet the registration requirement for any new or old withdrawals that was not previously registered or reported is to register it as a new water withdrawal through the [Michigan Water Withdrawal Assessment Tool](#).

The Indiana SWWF reporting system offers both paper and online reporting options. Personalized letters for each SWWF user are mailed at the end of each year containing the registration information from the previous year. Users can modify any of the facility information and add the monthly water use for the current year. A description of Indiana's registration program and [online reporting](#) option are available. [Locations of currently registered SWWFs](#) and the previous three years of reported water use are also available. In Indiana if you have a newly acquired or installed SWWF or a facility that has never been registered, please contact Allison Mann of the Water Rights and Use Section of the IDNR, Division of Water at (317) 234-1101 or toll free at 1-877-928-3755.

The required estimated water use can be accomplished by several methods including acre inch record, pump capacity multiplied by run time and flow meter readings. [Information](#) on estimating water use for irrigation/livestock, forms, or other large volume water use requirements can be found on [Michigan State University Extension](#) webpage or email me, Purdue/MSU Extension Irrigation Educator, with request for Water Use Reporting and Registration information at [kelly@anr.msu.edu](mailto:kelly@anr.msu.edu)

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## **2015 WEST MICHIGAN AGRICULTURE EMPLOYER MEETING**

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**Date:** February 12, 2015

**Time:** 8 a.m. - 3:30 p.m.

**Location:** 308 South State Street, Hart, MI 49420

**Contact:** Ben Werling, [werlingb@msu.edu](mailto:werlingb@msu.edu), 231-873-2129

This workshop aims to help West Michigan's agricultural employers meet farm labor regulations and provide education about alternative sources of farm workers. Presenters will address different ways growers can locate

labor, including H2A, the newly improved Agricultural Recruitment System and labor contractors. Speakers will also provide updates on compliance with employer regulations, including an update from the Department of Homeland Security, how to ready housing for H2A, small employer health plans under the Affordable Health Care Act and on-farm issues to address to ensure compliance with DOL regulations. Michigan Works and Telamon will also discuss resources they can provide for local employers.

The cost of the workshop is \$15 and includes all conference materials, morning refreshments and lunch. Please use the [attached form](#) to register, or contact Kathryn Walicki at 231-873-2129.

## **2015 GREAT LAKES HOP AND BARLEY CONFERENCE ANNOUNCED**

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**Save the date: April 10-11, 2015 in Grand Rapids, Michigan.**

Posted on **January 21, 2015, MSUE News**, by [Rob Sirrine](#), Erin Lizotte and Ashley McFarland, Michigan State University Extension

[Michigan State University Extension](#) is pleased to announce the dates for the 2015 Great Lakes Hop and Barley Conference. The two-day conference will be held Friday and Saturday, April 10 -11 in Grand Rapids, Michigan.

The conference will feature separate basic and advanced sessions for hop growers as well as a barley session and malting tour and is designed for both growers and brewers. Several prominent speakers from around the country will be on hand to discuss: market outlook, horticultural practices, pest and disease control, harvest and post-harvest practices, nutrient management, and more.

There will also be a brewer/grower networking session that focuses on hop quality. The session will provide growers with a better idea of quality requirements and help align the supply of Michigan grown hops with brewer needs.

The conference is sponsored in part by the [Michigan Brewer's Guild](#), [ISLAND](#), [Greenstone Farm Credit Services](#), [MSU PROJECT GREEN](#), among others.

Please continue to visit [Michigan State University Extension](#), [Michigan State University Extension Hops Webpage](#), and the [Michigan State University Hops News Facebook](#) page for up to date information.

Finally, please sign up for the new MSU Hop listserv for a lively interactive discussion of all things hop related. To subscribe:

1. Send an email to: [listserv@list.msu.edu](mailto:listserv@list.msu.edu)
2. Leave the "subject" line blank
3. In the body of the email type: SUBSCRIBE Hops
4. You will receive a confirmation email directing you to click on a link (this is to avoid spammers). Click on the link.

To send an email to the list once you have joined, just send it to: [hops@list.msu.edu](mailto:hops@list.msu.edu)

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## **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 is available at the new cherry website:

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

Information on apples:

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

**Fruit CAT Alert Reports has moved to MSU News**

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