Tractor Safety Program

Teens can improve their chances of employment by completing tractor safety training. MSU Extension will host a 4-H Tractor Safety Program for 14 and 15 year old youth on Wednesdays, April 6, 13, 20, 27 from 6-8:30 pm at the NW Michigan Horticultural Research Station. The written and driving test will be held on Saturday, April 30 from 8:30am – 2:30pm. Participants must attend all five sessions to become certified. The cost is $75 per student and some scholarships are available if finances are
an issue. Youth must be 14 years of age by June 1, 2016. Space is limited. The registration deadline is March 25. Registration forms are available online at www.msue.msu.edu/leelanau and attached.

Call the MSU Extension office for more information at 231-256-9888.

The Cost of Producing Tart Cherries in Northwest Michigan Workshop

Northwest Michigan Horticultural Research Center
March 22, 2016
5:30 – 8:00 PM

We would like to invite tart cherry growers to please join us for dinner and a cost of producing (COP) tart cherries workshop hosted by Mollie Woods, Emily Pochubay, and Nikki Rothwell at the Northwest Michigan Horticultural Research Center (NWMHRC) on March 22nd. This workshop will be a good opportunity for growers who are new or returning to the tart cherry business to learn about the many variables associated with production and how to calculate costs. We also encourage more seasoned growers to join us for an evening to catch up on crunching numbers or those who are looking to compare their COP estimates with an industry average.

The meeting will kickoff at 5:30 PM with a brief introduction to the findings of our 2015 COP study and describe to participants how the study’s estimated production costs were generated. Following this presentation, participants will be provided with a current COP worksheet and guided through an exercise to calculate their individual farm business’ production costs. We would like to encourage any interested individuals to bring with them any known costs such as chemical input expenses, labor rates, etc. as well as estimated yields on a per acre basis to improve the accuracy of their individual COP calculations. However, industry averages will be provided in the event that the suggested information is not available.

DEADLINE HAS BEEN EXTENDED. Please contact Jenn Goodrich at 231-946-1510 or goodr100@msu.edu to register by March 21st. This meeting is FREE and includes dinner. However, registration by March 21st is required to guarantee your dinner.

Thank you to the Michigan Cherry Committee for funding the cost of production research and this workshop.
Benzie-Manistee Horticultural Society Equipment Demonstration and Annual Meeting

The deadline to register is April 1st. Please contact Jennifer Goodrich at 231-946-1510 or goodr100@msu.edu to register.

The Benzie-Manistee Horticultural Society and Michigan State University Extension invite you to an educational session on modern equipment for the 21st century orchards where we will feature platform and hedger education and equipment demonstrations. The day will begin on April 7th at 9:15 AM at the Blaine Christian Church (7018 Putney Road, Arcadia, MI 49613) with a morning of presentations by Farm Bureau on transportation laws updates. Phil Schwallier, MSU Extension, will present his research results on farm mechanization using equipment such as hedgers and platforms, and a grower panel will share their experiences of mechanization on the farm. Lunch will be provided at the church, and an afternoon of on-farm platform and hedger demonstrations will follow. At this time, we have over 10 pieces of equipment that will be demonstrated in high-density apple orchard systems. Participants will have the chance to meet with equipment dealers and fabricators at a Social Hour that will be held before dinner.

Registration cost is $30 per person, which includes lunch and refreshments; a portion of proceeds will be provided to the Boy Scouts of America for their assistance setting up the meeting and dining area for this event. Dinner at The Fusion restaurant (Frankfurt, MI) costs an additional $20 per person.

Blaine Christian Church
7018 Putney Road, Arcadia, MI 49613
April 7th, 2016

Educational Session

9:15 Welcome and Refreshments
Adam Putney, President, Benzie Manistee Horticultural Society

9:25 – 9:45 Moving Ahead for Progress: Transportation Laws Update
Craig Anderson, Farm Bureau

9:45 –10:15 Mechanization: You Ready for Platforms, Hedging and More?
Phil Schwallier, MSU Extension

10:15 – 10:30 Break
10:30 – 11:30  Grower Panel: Mechanization on the Farm
Greg Williams, Williams Orchards: Homemade Platform
Francis Otto, Cherry Bay Orchards: Brownie Quad Platform
Lenny Ligon, Ligon Orchards – Hedger

11:30 – 12:15  Lunch at Blaine Christian Church

Field Equipment Demonstration

12:30 – 1:45  Louis Gelder and Sons Company, Inc.: Blosi Platform and Hedger Demo
Location: Bill Lentz Farm (See Map)

1:45 – 3:00  Gillison’s Variety Fabrication Inc. Double Hedger; and Phil Brown Welding Platform Demo
Location: Putney Farm (See Map)

3:00 – 4:45  Precise Ag Platform; and Bartlett Orsi Cross Platform and FAMA Hedger Demo
Location: Evans Brothers (See Map)

5:15 – 6:00  Meet with the Vendors Social Hour
Location: The Fusion, 300 Main St, Frankfort, MI 49635
Website: www.the-fusion.com

6:00 – 7:00  Dinner at The Fusion (Please register in advance)

7:00 – 7:30  Benzie-Manistee Horticultural Society Annual Meeting

Thank you to the Michigan State Horticultural Society for supporting this event. Many thanks also to the vendors and growers for their equipment demonstrations and participation in the panel discussion.

Maps from Blaine Christian Church to Grower Sites:
The deadline to register is April 1st. Please contact Jennifer Goodrich at 231-946-1510 or goodr100@msu.edu to register.

2016 NORTHWEST MICHIGAN WINEGRAPE MEETING SERIES

Spring Kick-Off

Friday, April 8, 2016

9:00 am – 5:00 p.m.

Northwest Michigan Horticultural Research Center,
6686 S. Center Hwy., Traverse City
$10 for Parallel 45 members
$15 for non-members

Pre-registration is required—
see http://www.p45michigan.com/

Program:

9:00 -- 9:15   Welcome and Parallel 45 update
               Brian Hosmer, P45 President

9:15 -- 12:00 Vineyard sprayer technology and calibration
            John Stone, Pesticide Safety Education Program, MSU

12:00 – 1:00 Lunch provided on-site

1:00 – 3:00   Grape disease biology and management
               Annemiek Schilder, MSU

3:00 – 5:00   Comparative tasting of Michigan wines made from
               *vinifera* varieties not commonly grown in the state
               *Led by a panel of local winemakers*

Sponsored by:

Parallel 45 Vines & Wines Inc.
Michigan State University Extension
For more information, contact Duke Elsner at elsner@msu.edu or 231-922-4822

First Friday Meetings

May 6, 3-5 pm
2 Lads Winery
Sprayer rate controllers, drift management, visualizing deposition patterns—
Mark Ledebuhr, Application Insight

June 3, 3-5 pm
L. Mawby Vineyards
Disease scouting, weather influences and fungicide selection—Annemiek
Schilder, MSU

July 1, 3-5 pm
Hawthorn Vineyards
Natural enemies, new insecticide options, perimeter spray programs - Rufus Isaacs, MSU

August 5, 3-5 pm
Shady Lane Cellars
Compost tea trials and applications

NW Michigan Horticultural Research Center Open House

August 25 (date tentative), 1-5 pm
Variety trial observations & mechanical weed management

Sponsored by:

Parallel 45 Vines & Wines Inc. (http://www.p45michigan.com/)
Michigan State University Extension

For more information, contact Duke Elsner at elsner@msu.edu

FARMERS & RANCHERS, HOW DOES HEALTH INSURANCE AFFECT YOU?

The University of Vermont is INTERVIEWING 120 FARMERS & RANCHERS, AND WE WANT TO HEAR FROM YOU!

What are your experiences and concerns with health care for farm and ranch families? Two brief confidential interviews will earn you $200 Compensation! This survey is done to help influence rural health policy. These surveys are needed for a 4-year USDA-funded grant to understand farm and ranch families’ unique health insurance needs.

Here is what to expect:

An initial phone interview and follow-up interview will be scheduled at your convenience. Initial conversation will take place in Spring 2016.

Interviews:

We will talk about your farm, your experiences with healthcare, and how health insurance influences your quality of life and farm business. All information will be kept confidential.
Why your participation matters:
The information you share will help influence policy at USDA Health and Human Services.

What you will receive:
Participants will be compensated $200 for their time (approx. 4 hours total)

FOR MORE INFORMATION, PLEASE CONTACT:
Katlyn Morris, Project Coordinator
Email: Katlyn.Morris@uvm.edu,
www.hirednag.net
Phone: (802) 656-0257

2016 Blueberry Kickoff Meeting on March 21

Pre-season update for blueberry growers on cultural and pest control strategies for the 2016.

By Mark Longstroth, and Carlos Garcia, MSUE News

Airblast tower sprayer applying an early season spray in blueberries.
Michigan State University Extension blueberry team’s annual Blueberry Kickoff Meeting will be March 21, 2016, at the MSU Trevor Nichols Research Center, 6237 124th Ave, Fennville, MI 49408. The meeting will start at 1 p.m. and conclude about 5 p.m. Three RUP credits will be available to certified pesticide applicators in Private and Commercial fruit. There is a $5 registration fee to cover break snacks and handouts.

To attend, please register by calling or emailing me at 269-873-8983 or longstr7@anr.msu.edu, or Mary Frein at 616-994-4540 or frein@anr.msu.edu. Preregistration provides us with information for planning the number of handouts and audience seating.

Topics to be covered at this meeting include:
- Introduction and Updates on 2016 Blueberry Meetings, Mark Longstroth and Carlos Garcia Salazar, MSU Extension small fruit educators for Van Buren and Ottawa counties
- Updates from the Michigan Blueberry Industry, MBBAC and USHBC representatives
- What Does the 2016 Growing Season Look Like? Jeff Andresen, MSU climatologist
- Blueberry Weed Control, Bernie Zandstra, MSU Horticulture professor
- Blueberry Nutrition Update, Eric Hanson, MSU Horticulture professor and Extension specialist
- Enviro-weather Update, Beth Bishop, MSU Enviro-weather coordinator
- Blueberry Irrigation and Spring Freeze Control Options, Mark Longstroth, MSU Extension small fruit educator, Van Buren County
- Update on FSMA (Food Safety Modernization Act), Carlos Garcia Salazar, MSU Extension small fruit educator, Ottawa County
- Blueberry Insect and Insecticide Update, Rufus Isaacs, MSU Entomology professor
- Early Season Blueberry Disease Control Update, Annemiek Schilder, MSU Plant, Soil and Microbial Sciences professor

Growers with special needs may request assistance by contacting me at 269-873-8983 or longstr7@anr.msu.edu, Mary Frein at 616-994-4540 or frein@anr.msu.edu, or Carlos Garcia at 616-260-0671 or garcias4@msu.edu.

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**MSU Extension AABI Tree Fruit Educator Seminar**

**Public Presentations**

**Wednesday, March 23, 2016**

**David Jones**  
1:15 p.m. – 1:45 p.m.

**Sarah Capasso**  
2:00 p.m. – 2:30 p.m.

**Tessa Lessord**  
2:45 p.m. – 3:15 p.m.

**William Lindberg**  
3:30 p.m. – 4:00 p.m.
Presentation Question, with a time for questions & answers following:

“Michigan tree fruit growers experience a variety of different challenges each growing season; Demonstrate how you would use your past experience, knowledge, and training to develop an informative extension program to assist fruit growers in making better decisions related to one or more likely challenges”.

Seminar Presented at the:

Hart Community Center
407 State St.
Hart, MI 49420

Public and Interested Parties are Welcome to Attend

Seasonal Worker Housing for Michigan Agriculture
Hosted by: League of Women Voters Leelanau County

Wednesday, April 13, 2016, 7:00 PM
Northwest Michigan Horticultural Research Center

Speakers include:

Connee Canfield, farmer, migrant housing developer and site manager for SunRISE migrant worker apartments in Hartford, MI

Majed Ghussaini, manager for the Migrant Labor Housing Inspection and Licensing Division, MI Department of Agriculture and Rural Development (MDARD)

Meeting is open to the public and is part of the Farm Labor Task Force Forum that the League of Women Voters Leelanau County puts on.

Grape growers spring kickoff meeting held April 4, 2016

This is the first of several in-season integrated pest management meetings for all grape growers and those interested in juice or wine grape production.

Posted on March 14, 2016 by Brad Baughman, MSUE News

Michigan State University Extension is hosting the 2016 Spring Kickoff Meeting for grape
growers at 3 p.m. on April 4 at the Southwest Michigan Research and Extension Center, 1791 Hillandale Rd, Benton Harbor, MI 49022. Experts on viticulture Bruce Bordelon of Purdue University and Imed Dami of Ohio State University will be joining us. They will be discussing research results from in-vineyard trials at Purdue University and Ohio State University regarding cold injury and frost management. Keith Mason from MSU Department of Entomology will be updating growers on current research on grape insect pests. Discussion will follow each speaker, so growers are encouraged to bring questions. Dinner will be served after the educational presentations at 5 p.m.

Two restricted use pesticide recertification credits have been requested for this meeting. Registration includes dinner and is $13 per person for pre-registration before March 28 or $18 at the door. Checks should be made out to Michigan State University and mailed, along with a note of the name and preferred contact information of registrants, to:

Berrien County MSU Extension
1737 Hillandale Rd
Benton Harbor, MI 49022

View or print meeting registration brochure

MSU’s grape integrated pest management meetings are sponsored in part by the Michigan Wine and Grape Industry Council.

Accommodations for persons with disabilities may be requested by contacting MSU Extension at 269-944-4126 by March 17. Requests received after this date will be fulfilled when possible.

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**Prowl H2O registered for use in highbush blueberry**

New supplemental label issued for use on bearing and non-bearing bushberry. Posted on March 17, 2016 by Bernard Zandstra, MSUE News

EPA has approved a new supplemental label for use of Prowl H2O for annual grass and broadleaf weed control in highbush blueberry. Prowl H2O provides 4-6 weeks control of most annual grasses and broadleaves. Up to 2 applications may be made with a maximum of 6.3 qt per acre per year. Prowl H2O may be applied over recently transplanted crops. In established blueberry, it should be directed to the soil at the base of the plants.

Prowl H2O is most effective when used in combination with other preemergence herbicides to expand the spectrum of weed control. It does not have postemergence
Knowing pest life cycles helps with resistance management

Rotating pesticide chemistries is critical to successful pest management, but knowing insect and disease life cycles also plays a big role.

By Ron Goldy, MSUE News

Growers are well aware of the need to rotate pesticide chemistry to minimize the chances of pests developing resistance. However, there is more to resistance management and pest control than just rotating chemistries. Understanding pest life cycles is another important piece to this puzzle. The life cycle characteristic I want to focus on for this article is whether the pest overwinters locally or migrates in each year from other locations.

Whether we appreciate it or not, northern winters are a benefit when it comes to keeping some of our worst pests in check. Some pests simply are unable to survive cold temperatures while others need live tissue to survive and the cold kills the host plant. This is true for some insects and diseases. For migrating pests, the chemistries they are exposed to at their overwintering site and during migration are important factors when it comes to controlling them on your crops.

A good insect comparison is the difference between European corn borer and corn ear worm. European corn borer overwinters locally and the population can be reduced by winter cold, especially in years with little snow cover, but some will still survive to infest subsequent corn plantings. The population of European corn borer that affects your crop this year was primarily exposed to the chemistries you used last year. In contrast, corn ear worm overwinters starting in southern Ohio and a number of generations are exposed to products to which they can develop resistance before they get to your crop. It is possible the products you used last year that worked well may work poorly this year since the population may have developed resistance before reaching your location. Resistance developed in migratory pest populations may be due to no fault of your own. An example for disease is downy mildew and Alternaria leaf spot of cucumber. Alternaria leaf spot overwinters in plant debris and is in your field waiting for you to plant a susceptible crop. According to Michigan State University Extension recommendations, the first steps in controlling Alternaria leaf spot is practicing good crop rotation followed with good rotation of pesticide chemistries. Like European corn borer, the Alternaria leaf spot population in your field this year was primarily exposed to the control products you used last year. However, downy mildew is an obligate parasite, which requires live tissue for survival, so it completely dies out on your site and must come back from southern locations or greenhouse situations where it may have been
exposed to several applications of a control product. Even if you have not used that particular product at your location to control downy mildew, the pathogen may have already developed resistance through exposure prior to arriving on your farm.

The “take aways” from this article are: Know the lifecycles of your pests, continue chemistry rotation, and don’t expect products that worked last year to work this year on pests that have lengthy migrations.

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**Preseason fruit IPM meetings March 22 and 24 in southwest Michigan**

These preseason meetings are an update for fruit growers on pest and disease control strategies for the 2016 growing season.

By Mark Longstroth, Brad Baughman and Bill Shane, MSUE News

**Buds will soon start to swell with warm, spring weather. These apple buds are at green tip.**

Fruit growers are invited to the preseason integrated pest management (IPM) update meetings, hosted by Michigan State University Extension fruit educators Bill Shane, Brad Baughman and me. Included is a review of important changes in the new 2016 MSU Michigan Fruit Management Guide (E0154), including management information for fruit insects and diseases. We will discuss useful findings from recent fruit research projects and the proper use of new pesticides. An important part of the meeting is growers sharing their concerns from 2015 as they look forward to 2016.

Two evening meetings are scheduled: a Berrien County Fruit Update and a Van Buren County Fruit Update. The Berrien County meeting is 6-8 p.m. on Tuesday, March 22, 2016, at the Southwest Michigan Research and Extension Center, 1791 Hillandale Rd, Benton Harbor, MI 49022. The Van Buren County meeting will be 6:30-8:30 p.m. on Thursday, March 24, at the Lawrence Conference Center, 490 S Paw Paw St, Lawrence, MI 49064.

Each meeting will cover the same material focusing on new and changing pesticide labels, pesticide spray timing and pesticide mode of action, effectiveness and longevity. Pesticide resistance management and insect and disease management models will also be discussed. Other topics will include bee safety during pollination and controlling the new invasive pest spotted wing Drosophila. Shane, a tree fruit educator, will concentrate on tree fruits. As a small fruit educator, I will cover small fruits such as blueberries, raspberries and strawberries. Baughman, the Berrien County small fruit educator, will cover grapes. Two RUP Private, Commercial or 1C credits will be available.
All fruit growers are invited to attend and participate. Registration is free and available online (visit the Berrien County Fruit Update and Van Buren County Fruit Update registration pages). Growers can also register at the door before the beginning of the meeting.

A limited number of Michigan Fruit Management guides will be available for $25 at the meeting, cash or check only. They can also be ordered at the MSU Extension Bookstore.

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 is available at the new cherry website:
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