Crop Update - July 12, 2018

Building Strong and Vibrant New York Communities
Diversity and Inclusion are a part of Cornell University’s heritage. We are a recognized employer and educator valuing AA/EEO, Protected Veterans, and Individuals with Disabilities.
Dates of interest:

**Wednesday, July 18, 2018** - Coffee Pot meeting
10:00am - Tom Tower Farming, 759 Lockport St. Youngstown NY 14174

**Monday, July 30, 2018** - Enology Meeting
Quality Issues in Cool Climate Reds

**Tuesday, August 7, 2018** - LERGP Hopyard Tour
6:00pm - 7:30pm at CLEREL, light refreshments

**Wednesday, August 15, 2018** - LERGP Summer Conference at CLEREL 9:00am - 4:00pm

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**Why buy crop insurance?**

Higher input costs, swings in market prices and dealing with the weather are why many of our customers are choosing to manage these risks with a crop insurance policy.

Contact Kelsey today to learn more.

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**Mosier-Maille Ag Consulting**

**Soil and Crops**

***Jared Mosier***
Consultant
(814) 923-1372
7472 Buffalo Rdl.
Harborcreek, PA 16421

***Dave Maille***
Consultant
(814) 572-5781
mmagconsulting@gmail.com

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**The Only FRAC Group U6 Fungicide**

Labeled for Grapes & Cucurbits
Highly Effective on Powdery Mildew
No Cross-Resistance
Protectant / Preventative Action

**FRAC Group 3**

Labeled for Grapes
Controls Powdery Mildew, Black Rot, & Anthracnose
Protectant + Curative Activity
Highly Systemic

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**High Quality Copper**

Excellent Mixing Characteristics
Highly Active at Lower Rates
Enhanced Crop Safety

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**Copper Ions Embedded in a Natural Polymer Matrix**

Further Improved Crop Safety Characteristics

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KELSEY MAPSTONE
Northeast Marketing Agent
29 E. Chautauqua Street, Mayville, NY 14757
Office 716.753.2144 ext. 2312 | Cell 315.708.9883
kelsey.mapstone@cropgrowers.com

YIELD PROTECTION | REVENUE PROTECTION | CROP HAIL COVERAGE | LIVESTOCK GROSS MARGIN (DAIRY)

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Contact Kelsey today to learn more.
LERGP Summer Grape Grower Conference
Wednesday, August 15, 2018
at CLEREL

Topics of the day: 9:00am-3:00pm

Spotted Lantern Fly, should we be worried?
Powdery Mildew and Botrytis (pesticide points)
D.O.T. topics
Crop Insurance
Efficient Vineyard topics including demonstrations in the field
Carnegie Melon’s vineyard robot, our variable rate thinner, NDVI sensors, and much more.

We will spend the morning inside, then after lunch head outside for more interactive talks around the farm.

$10.00 per person, includes refreshments and lunch
LAKE ERIE REGIONAL GRAPE PROGRAM
2018 SUMMER GRAPE GROWERS’ CONFERENCE REGISTRATION FORM
Wednesday, August 15, 2018
Deadline for registration is Friday, August 10, 2018.

Name (1st attendee) _______________________________ $____10.00_____

Farm Name __________________________________________

Address, City, State, Zip Code ______________________________

Phone_______________________ E-mail_____________________

Are you enrolled in Lake Erie Regional Grape Program (LERGP)? Yes______ No______

Additional attendees:

<table>
<thead>
<tr>
<th>Name</th>
<th>NY DEC/PA PDA NUMBER</th>
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Total:

Please make check payable to LERGP (Lake Erie Regional Grape Program) and mail to:
Kate Robinson
LERGP
6592 W Main Rd
Portland NY 14769

Call Kate at 716-792-2800 ext 201 with any questions.
Integrating Herbicide and Cover Crop Management for Cost Effective Results.

We are currently approaching cover crop season and it is time to start thinking about seed mixes and ordering seeds. One of the primary goals of an economically beneficial cover crop stand may still be weed control. We continue to see increases in herbicide management costs. Even round-up costs are up 20% in the last 24 – 36 months. Some of you know, all too well, that 1-2 applications of herbicide do not provide adequate control of weed competition in vineyards. Complicated tank mixes that cost over $100 per applied acre are not a practice I would consider sustainable. Some growers, though, would disagree.

Herbicide costs are not increasing substantially. More frequent applications and a need to apply better materials more often is driving costs up. The majority of herbicides used by growers are off patent these days and available almost exclusively in generic form. A third or even fourth vineyard pass, could be sustainable. The cost of materials and materials selected needs to be looked at comprehensively with the number of passes required to obtain adequate control.

More and more consistently, I see potential for cover crops to improve the effectiveness of weed control. We can observe this, not just in row middle management, but to a lesser extent under trellis management. Cover crops do not offer the potential to reduce herbicide applications in situations where growers are applying between 1 and 3 per year. Rather, they offer an option to improve results without adding an additional pass. Particularly where hard to control species get established, some growers have added a late summer or fall application to bring their total number of herbicide application to 4-5. In this scenario, the right cover crop mix offers the potential of superior control with one less pass.

Cover crop mixes being trialed are similar in cost to an herbicide application. Low-end rye grass and radish blends are comparable to many post emergent row middle applications. Higher end seed mixes with oats, radishes and buckwheat range between $15 and $20 per seeded acre in materials. Legumes increase costs but potentially reduce fertilizer use. Easy to kill hybrid crimson clover complicates the economic analysis. It may reduce urea applications by 50%, reduce termination costs but could be more difficult to grow. Understanding effective seed mixes, their primary benefits and potential secondary benefits will be key to the success of moving cover crops into perennial systems in a cost-effective (saving) way.
Grape Berry Moth

TAKE HOME MESSAGE – According to the GBM model on the NEWA website http://newa.cornell.edu, in most areas we are past the point where management aimed at the second generation will no longer be effective. Burt and North Appleton are the only locations that are still below the 910 DD cutoff for using contact insecticides for these applications, but are forecasted to exceed that threshold in the next few days as well. The next management possibility for grape berry moth is scouting vineyard blocks between 1470 and 1620 DD.

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<tr>
<th>NEWA Location</th>
<th>Wild grape bloom date*</th>
<th>DD Total on July 11, 2018</th>
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* Estimated date provided by NEWA website

Grape Rootworm

TAKE HOME MESSAGE - Nothing new from last week. We are continuing to find grape rootworm in vineyards with a history of grape rootworm. If you have not scouted, now is the time. If you find the chain like foliar feeding of the adults, consider applying an insecticide to limit the population of this pest.

There are a number of active ingredients that can be used for grape rootworm adults at this time of year. Sevin is labeled and Admire Pro, Danitol, Leverage 360 and Sniper are available through FIFOA 2(ee) recommendations. You need to have the FIFOA 2(ee) recommendation in your possession if you use one of these products. They can be found on line at http://lergp.com/ipm/. Check out the podcast from June 20, 2018 for more information on our weekly grape rootworm scouting at http://lergp.com/podcasts/.
In the Vineyard (7-12-18)

**Powdery Mildew (PM)** – At this point in the season berries should be resistant to PM infections but pedicals, rachises, and leaves continue to be susceptible. The amount of leaf infections observed is still low but, as in every season, will continue to increase as the season progresses. In Concord blocks, the need for additional fungicide applications increases in situations where heavy crop loads exist. Protection needs to be continued in blocks of *V. vinifera* and highly susceptible hybrid varieties.

**Downy Mildew (DM)** - DM lesions were found on leaves in a Delaware block and on scattered clusters in a Fredonia block. From what I have seen so far, DM should not be a problem this season in most of the Concord and Niagara vineyards in the region. However, highly susceptible varieties should continue to be scouted, especially if the weather turns wet.

**Black Rot (BR)** – BR has not been hard to find in border areas near the woods in a number of vineyards that I routinely check for grape berry moth injury (Figure 1). I have also received reports from growers concerning black rot infections. Berries will continue to be susceptible to infections for about another 2 weeks. So, a fungicide application before the next rainfall would be advised in blocks where leaf lesions or infected berries are easy to find.

![Figure 1. Concord berries with black rot symptoms.](Photo - Andy Muza, Penn State.jpg)
Weather: July rainfall has been well below average and we have recorded only 0.27" at our location by the lake. We have accumulated about 279 growing degree days so far during July, and we now have about 1258 gdds as of April 1 (above average). There is no rain in the short-term forecast, with temperatures somewhat above average. We may see some rain on Monday.

Diseases: With only a little better than a quarter inch of rain over the past two weeks, disease development threats have been very minimal with respect to black rot and downy mildew. Our unsprayed Chancellor vines (incredibly susceptible to downy) here at the North East lab are completely free of downy mildew, for the third consecutive year. This is very, very unusual!

Fruit of juice grape varieties should be resistant to powdery and downy mildew, but are still susceptible to black rot for another week or two. Our last black rot infection period was about 2 weeks ago, and symptoms on fruit should start to become observable about now and over the next week or so. If thorough scouting shows that your earlier efforts have left your vineyard clean of this disease, then there is probably little threat of it left on fruit, unless weather turns very wet.

I am finding small amounts of powdery mildew on unprotected Concord clusters and leaf infection is becoming more observable on the north side of the trellis (east/west oriented rows). As control of this disease shifts to primarily protecting leaves, take stock of your potential yields. The more above average your crop is, the more it will benefit more from prolonged protection from powdery mildew, in order to maximize the efficiency of canopies for sugar production. There is no formula for just how long you need to continue leaf sprays for powdery mildew; it depends on how much above average your production is on a block by block basis. The more ‘above average’ your crop is, the higher risk you run of not getting the crop ripe, should the weather deteriorate and the mildew shut down the photosynthetic capacity of your vines. Mid and late summer powdery mildew sprays will improve the odds you’ll harvest a large crop, but they’re not a guarantee.
Quality Issues in Cool Climate Reds:
Winemaking Challenges and Strategies

Monday, July 30th, 2018
@CLEREL, 6592 West Main Rd., Portland, NY 14769

COVERING:
- Ameliorating the impact of unripe or rotten fruit
- Strategies for alcoholic and malolactic fermentation
- Cap Management
- SO2 Management
- Extracting and adding tannins
- Cold stability in red Labruscana cultivars

PRESENTED BY:
- Molly Kelly, Enology Extension Educator, PSU
- Chris Gerling, Enology Extension Associate, Cornell University
- Anna Katharine Mansfield, Associate Professor, Cornell University

Registration: 9:30 AM Program: 10:00 AM – 4:00 PM
Cost: $50 per person—lunch included

Please register by July 23rd, 2018

NAME OF WINERY:_________________________________________________
PHONE:_____________________     EMAIL:_____________________________
ATTENDEE NAME(S): 1. _____________________________________________
                    2. _____________________________________________
                    3. _____________________________________________
                    4. _____________________________________________
                    5. _____________________________________________
                    6. _____________________________________________
TOTAL COST: $50/person X ____ attendees = $_______

Please make checks payable to LERGP and mail to:
LERGP, ATTN:KATE, 6592 West Main Road, Portland, NY 14769
OR Register online with a credit card @ http://lergp.cce.cornell.edu

CONTACT KATE: kjr45@cornell.edu or 716-792-2800 ext 201 for more info.
Hi Farmers of NYS, do you think growing tree nuts (chestnuts, hazelnuts, walnuts, etc.) is a nutty idea, or worth considering? Please take a few minutes to fill out this brief survey for a Cornell PhD project (more info in the survey). Thanks!


Samuel Bosco
PhD Student
Department of Horticulture
25 Plant Science
https://hort.cals.cornell.edu/people/samuel-bosco
Follow me on Twitter: @ResearchIsNuts

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2018 eNEWA Grape Subscription Sign-Up

Subscriber information

Name______________________________________________________________________

Email address _________________________________________________________________

City______________________________________________________________________

Select Location(s) (circle as many as you like, or write in below)

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Select eNEWA Delivery Times (write in times below) Delivery requests should be on the hour.
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</table>
Crop insurance is a safety net for farmers that helps you manage risk. If you have a crop failure, crop insurance can help you farm again next year.

Important Insurance Deadlines

- **Nov. 20, 2017**: Sales Closing, Policy Change, Cancellation, Termination Date
- **Jan. 15, 2018**: Acreage / Production Report Date
- **Aug. 15, 2018**: Premium Billing Date
- **Nov. 20, 2018**: End of Insurance Period

Over 40 grape varieties are insurable in these counties:

- Cattaraugus
- Chautauqua
- Erie
- Niagara
- Ontario
- Schuyler
- Seneca
- Steuben
- Suffolk
- Ulster
- Wayne
- Yates

Grapes in other counties may be insured by written agreement from RMA

NYS Grape Crop Insurance Performance

![Chart showing losses paid and producer premium from 2012 to 2016](chart.png)

Learn more & sign up:

To sign up, contact a crop insurance agent. Find an agent using the Agent Locator tool at [rma.usda.gov/tools/agent.html](http://rma.usda.gov/tools/agent.html)

Find crop insurance information at [ag-analytics.org/cropinsurance/](http://ag-analytics.org/cropinsurance/)

Cornell University delivers crop insurance education in New York State in partnership with the USDA Risk Management Agency. Diversity and Inclusion are a part of Cornell University’s heritage. We are an employer and educator recognized for valuing AA/EEO, Protected Veterans, and Individuals with Disabilities.
LERGP Links of Interest:

Go to http://lergp.cce.cornell.edu/ for a detailed calendar of events, registration, membership, and to view past and current Crop Updates and Newsletters.

LERGP Web-site:
http://lergp.com/

Cornell Lake Erie Research & Extension Laboratory Facebook page

Efficient Vineyard Web-site:
https://www.efficientvineyard.com/

Table for: Insecticides for use in NY and PA:
http://lergp.cce.cornell.edu/submission.php?id=69&crumb=ipm|ipm

Crop Estimation and Thinning Table:

Appellation Cornell Newsletter Index:
http://grapesandwine.cals.cornell.edu/cals/grapesandwine/appellation-cornell/

Veraison to Harvest newsletters:
http://grapesandwine.cals.cornell.edu/cals/grapesandwine/veraison-to-harvest/index.cfm

NEWA:
http://newa.cornell.edu/
Lake Erie Regional Grape Program Team Members:
Andy Muza, (ajm4@psu.edu) Extension Educator, Erie County, PA Extension, 814.825.0900
Tim Weigle, (thw4@cornell.edu) Grape IPM Extension Associate, NYSIPM, 716.792.2800 ext. 203
Kevin Martin, (kmm52@psu.edu) Business Management Educator, 716.792.2800 ext. 202

This publication may contain pesticide recommendations. Changes in pesticide regulations occur constantly, and human errors are still possible. Some materials mentioned may not be registered in all states, may no longer be available, and some uses may no longer be legal. Questions concerning the legality and/or registration status for pesticide use should be directed to the appropriate extension agent or state regulatory agency. Read the label before applying any pesticide. Cornell and Penn State Cooperative Extensions, and their employees, assume no liability for the effectiveness or results of any chemicals for pesticide usage. No endorsements of products are made or implied.

Cornell University Cooperative Extension provides equal program and employment opportunities. Contact the Lake Erie Regional Grape Program if you have any special needs such as visual, hearing or mobility impairments. CCE does not endorse or recommend any specific product or service.

THE LAKE ERIE REGIONAL GRAPE PROGRAM at CLEREL
6592 West Main Road
Portland, NY 14769
716-792-2800