Upcoming Event Dates to put on your calendar:
Please note the deadline for registration for each event.

August 20, 2014- Thompson Ag Pig Roast
3:00-5:00pm, Hanover NY

Information and registration forms for all of the listed events are available in.... update.
Registration is also available on-line for most programs at our web-site: lergp.cce.cornell.edu
Kevin Martin
Penn State University, LERGP,
Business Management Educator

Kevin will be back next week.
Do you have Crown Gall in ‘Niagara’?

Luke Haggerty

_Viticulture Extension Associate_

_Lake Erie Regional Grape Program_

During site visits this past week I’ve seen signs and symptoms of new crown gall infections. Crown gall has been a long widespread disease in grapes. In the Lake Erie region, crown gall is commonly found on wine grape cultivars and ‘Niagara’. New gall formations are normally found in early summer and will remain on the trunk until it is cut out. Depending on the severity of infection and when you observe the damage, there are a few specific indicators to watch for. New infections will produce a milky/tan to a yellow/green colored substance on the infected area (Figure 1). Newly formed tumors appear as light green/yellow to brown gall and look like the inside of a walnut (Figure 2). Any wound site on a vine is prone to crown gall. Trunk cracking and splitting (trunk injury) from winter injury is the most common cause of infections. This disease will reduce vigor, yield, and overall health of the vine and will eventually completely kill the vine.

I will be conducting crown gall assessments through early September and I’m looking for vineyards to check. If you are interested in setting up a site visit call me at (716) 792-2800 Ext. 204 or email me at llh85@cornell.edu.
Weather Data

Lake Erie Grape Region NEWA Weather Data

<table>
<thead>
<tr>
<th>Location</th>
<th>Date</th>
<th>High (F)</th>
<th>Low (F)</th>
<th>Precip. Past 7 days (in)</th>
<th>Precip. Jul.Total</th>
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<tbody>
<tr>
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<td>56</td>
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<td>4.70</td>
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<tr>
<td>Dunkirk</td>
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<tr>
<td>Versailles</td>
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<td>56</td>
<td>2.18</td>
<td>5.40</td>
</tr>
</tbody>
</table>

Note: All Weather data reported as of 7/30/2014. NA=Sensor Malfunction

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**DATE/YEAR** | **HIGH** | **LOW** | **DAILY PRECIP** | **GDDs** | **TOTAL GDDs** | **APRIL GDDs** | **TOTAL JAN GDDs**
---|---|---|---|---|---|---|---
Week of 7/9/2014 | 75.1 | 62.70 | 0.27 | 132.5 | 1154 | 1154
Week of 7/16/2014 | 76 | 62.90 | 0.04 | 136 | 1290 | 1290
Week of 7/23/2014 | 76.4 | 61.90 | 0.03 | 134 | 1424 | 1424
Week of 7/31/2014 | 72.6 | 60.60 | 0.29 | 116 | 1540 | 1540
Average (from 1964) | 80 | 62.50 | 0.18 | 149 | 1506.4 | 1531.3

July Precip- Wk 1= .39" Wk 2= 1.92" Wk 3= .28" Wk 4=.21" Wk 5= 2.05"
Total Precip:April = 3.66" May = 5.5" June = 5.05"
Recent Hail Events

We have been getting reports that the storm fronts that we have seen recently contained hail that produced damage in many vineyards across the Lake Erie grape belt. While there is nothing that can be done to cure hail damage, it would be a good idea to take the time to get out into your vineyard blocks and assess whether or not your various blocks have been hit, and if so, the level of damage that occurred. If you feel the level of damage in a block is significant, you should document the damage and contact your crop insurance agent.

It has not been shown that any material is effective in protecting, or preventing further damage, to the berry from rots associated with the hail providing entry wounds to the interior of the berry. If there is any good news, it is that, at this point in the season, the sugar content of the berries should be low enough where rots should not be a major concern. Many wounds may just callous over if weather conditions cooperate.

Grape Berry Moth Model on NEWA

According to the output of the GBM model on NEWA for stations in the Lake Erie region, we have not moved significantly toward the time where scouting should be taking place (1470 - 1610 DD) to determine the need to make an application for the third generation. At an average daily accumulation of 23 DD, the model is reporting that it will be approximately 8 days before the start of the scouting period (1470 DD) in Harborcreek and Ripley, and up to 17 days for vineyards in Niagara County.

At the July 30 Coffee Pot meeting we had a good discussion on the grape berry moth model and the timing of insecticide applications for the third generation. Growers reported that when they examined the interior of damaged berries they were finding various sizes for GBM larvae from small to large and questioned how this would affect the timing of the upcoming sprays. This variety of sizes is a great indicator of how the generations start to spread out as the season progresses and, eventually, may start to overlap as we get later in the season, especially those years where we have an extra generation.

<table>
<thead>
<tr>
<th>NEWA Location</th>
<th>Wild grape bloom date*</th>
<th>DD Total on July 24, 2014</th>
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<tr>
<td>Versailles</td>
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<td>Silver Creek</td>
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<td>Portland Escarp.</td>
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<td>Ripley</td>
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<td>North East Escarp</td>
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<td>Harborcreek</td>
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<td>1276</td>
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<td>North East Lab</td>
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<td>Ransomville</td>
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<td>1092</td>
</tr>
<tr>
<td>South Appleton</td>
<td>June 9</td>
<td>1079</td>
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</table>

* Estimated date provided by NEWA website

It is important to keep in mind that the 810 DD that is used to time insecticide applications is actually the number of degree days (base 47.17°F) it takes for the grape berry moth to complete their life cycle. In other words, starting with a newly laid egg, it takes 810 DD for that egg to hatch, go through the various larval stages, pupate, become an adult, mate and have another egg laid. This is one generation. The moth that laid the initial egg in the example has since died (after laying between 20 – 40 eggs) and a new generation of moths is now laying eggs.

Grape berry moth overwinters as pupae so in the spring, adults emerge from the pupae, mate and start laying eggs. Since the life cycle of the grape berry moth is driven by heat accumulation (the warmer it is
the faster they go through their life cycle) it is easy to understand why emergence of adults from the overwintering pupae is spread out. Those pupae that are closest to the wooded edge, or even on the vineyard floor, will warm up quicker in the spring and have adult emergence earlier than the rest. These adults, therefore, will be able to start egg-laying earlier than the rest of the overwintering population resulting in egg-laying of the overwintering population to be spread out over many days. Knowing this, it is easy to see that as the growing season progresses, the time of egg-laying will become more spread out as populations get larger and the variability in time of mating and egg-laying increases.

The model attempts to take this variability into account and provides us with an average timing for scouting and application of insecticides for grape berry moth. As has been discussed in previous weeks’ Crop Updates, if you have major problems with grape berry moth you should assess how you are approaching the problem, and make changes when necessary. If you have questions on how to implement the new phenology-based DD model for grape berry moth, or would like to go over your grape berry moth management strategy, please give me a call at 716.792.2800 x203 or email me at thw4@cornell.edu.
Weather: We have racked up 5.54” rainfall from July 1 through the 30th. Rainfall in 2014 is currently about 5” above our seasonal 20 year average for April 1 to end of July. Our growing degree day total (gdd) from April 1 through July 30 is 1418, which is below average. Our gdd total for July is 553, also below average.

Disease: As you know, most of the diseases we spray for every year are caused by parasitic fungi (black rot, Phomopsis, powdery mildew) or fungus-like microorganisms (downy mildew), and the completion of their life cycles are intimately dependent on rainfall. Therefore, a good rule to remember is this: as rainfall amounts and frequency increase, your scouting efforts should also increase. I know this is getting tiresome to hear, but scout, scout, scout!!, especially for diseases like downy mildew on leaves of susceptible varieties. Yes, unfortunately, if you are growing varieties like Niagara or Catawba, or susceptible wine varieties, I wouldn’t put the sprayer away yet. Continue to scout your vineyards, especially your most disease prone blocks, for signs and symptoms of downy mildew. I am seeing symptoms of downy on leaves of suckers of Niagara and Chardonnay here at the lab, and it is increasing with the potential to get out of control if rainfall continues. And with nearly 9 inches of rain in June/July, it’s not surprising. And also remember: more downy mildew in your vineyard this year, leaves more inoculum over-wintering in your vineyard, which means greater potential for problems controlling this disease next year should weather be wet.

The last of the black rot fruit rot is now showing up on larger berries even though we are probably past the end of the susceptibility period, even for wine varieties. These fruit infections occurred weeks ago and slipped through our fungicide sprays during the second week in July and are just now being expressed. If you’re seeing these symptoms in your vineyard, this information can be used to determine where shortcomings in your post bloom spray program occurred.
Thompson Ag Annual Pig Roast

August 20, 2014
3:00-5:00pm
Hanover NY

Program provided by:
The Lake Erie Regional Grape Program

**DEC credits are available

Agenda:

3:00 – 3:15 PM  **Cost/Benefit of Implementing Integrated Pest Management Strategies (IPM)**, Kevin Martin, Extension Educator, Lake Erie Regional Grape Program.

3:15 – 3:30 PM  **Late Season Viticulture Update** – Luke Haggerty, Lake Erie Regional Grape Program

3:30 – 4:00 PM  **Late Season Disease Management** – Wayne Wilcox, Department of Plant Pathology, Cornell University

4:00 – 4:30 PM  **IPM Updates and Roundtable Discussion** – Bryan Hed, Department of Plant Pathology, Penn State, Jody Timer, Department of Entomology, Penn State, Tim Weigle, NYS IPM Program, and Andy Muza, Lake Erie Regional Grape Program

4:30 – 5:00 PM  **Effective Spraying** - Andrew Landers, Department of Entomology, Cornell University will provide the audience with the how’s and why’s of effective spraying from the basics through the finer details.

Please RSVP to Donna at merrwhv@roadrunner.com or call 984-3808(Thompson Ag Office)
2014 Lake Erie Regional Grape Program Enrollment

**This form is for NY Growers ONLY- PA Growers call 814-825-0900 to register**

**Fees:**

- $70.00 $_________ GRAPE Program - Chautauqua county landowner
  ($45.00 program fee, $25.00 Chautauqua County Base Fee)

- $65.00 $_________ GRAPE Program - Cattaraugus, Erie, NY or Niagara
  ($45.00 program fee, $20.00 County base fee)

- $100.00 $_________ GRAPE Program - Out of Program Region Resident

- $25.00 $_________ 2014 Cornell Guidelines for Grapes

- $25.00 $_________ Hardcopy mailing of Newsletters***

Total $_________ (Please make check payable to LERGP)

I am interested in the educational work of Cornell Cooperative Extension in Niagara, Chautauqua and Cattaraugus County. Any current recorded enrollee 18 years of age and older shall have voting and nominating privileges to hold office in the Association of their local county.

( ) I am 18 years of age or older and signed________________________________________________________________________________________________________

( ) New      ( ) Renewal

Farm Name:___________________________________________________________________________________________

Name:_________________________________________ Spouse’s Name: ___________________________

Address:_________________________________________ City:___________________________________________

State:_________________________________ Zip Code____________________________________________

Home phone:__________________________ Cell Phone :________________________________________

***Due to budget constraints, all correspondence will be conducted through e-mail. Please provide your e-mail address below. If you would like to receive hardcopies, mark the $25.00 additional fee line above and include with payment.***

EMAIL ADDRESS________________________________________________________________________

Please return form and payment to:                                      Feel free to call w/ questions:

LERGP                                                                                               716-792-2800 Ext 201

6592 West Main Rd.

Portland NY 14769

Attn: Katie
LERGP Website Links of Interest:

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

Go to http://lergp.cce.cornell.edu/ for a detailed calendar of events. Please remember to RSVP for those events that require one!
Lake Erie Regional Grape Program Team Members:
Andy Muza, (ajm4@psu.edu) Extension Educator, Erie County, PA Cooperative 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. 205
Luke Haggerty, (llh85@cornell.edu) Grape Cultural Practices, 716.792.2800 ext. 204

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