



LAKE ERIE REGIONAL GRAPE PROGRAM

Electronic Crop Update for July 5, 2012

Go to <http://lergp.cce.cornell.edu/EventsCalendar.htm> for a detailed calendar of events including maps via Google calendar! Scroll to the bottom of the page for Google calendar and click on the event. Please remember to RSVP for those events that require one! UPCOMING EVENTS are also listed toward the bottom of this Electronic Update.

Please remember to let us know if you have changed or are in the process of changing your email address so we can keep the Electronic Crop Update coming to your inbox!

Please email Edith at: emb35@cornell.edu.

WEATHER FACTS: Edith Byrne

DATE / YEAR	HIGH	LOW	DAILY PRECIP.	GDDS	TOTAL APRIL GDDS	TOTAL JANUARY GDDS
Week 6/13/12	65	50	0	7.5	620	750.5
Week 6/19/12	85	71	0	28	750	880.5
Last Week 6/27/12	73	59	0	16	906.5	1037
July 4, 2012	86	68	0.07	27	1077	1207.5
July 4, 2011	81	60	0	20.5	1047	1055.5
July 4, 2010	84	63	0	23.5	1117.5	1121
AVERAGE	79.8	62.0	0.05	20.92	945.54	972.27
<i>GDDs accumulated July 2012 = 94.5</i>		<i>GDDs accumulated June 2012 = 456.5</i>		<i>GDDs accumulated May 2012 = 393</i>		
	2012	2011				
Average High thru JULY 4	83.25	79.5				
Average Low thru JULY 4	64.00	60.25				
Average High June	75.23	73.87				
Average Low June	60.27	58.30				
<i>This year compared to AVERAGE: JAN. GDD: Ahead 11.24 / APR. GDD: Ahead 6.28</i>						
<i>This year compared to 2011: JAN. GDD: Ahead 7.27 / APR. GDD: Ahead 1.43</i>						
July 2012 Pcp = 0.10" / 2012 Total Precipitation through 7/4 = 15.99"						
June 2012 Pcp = 2.50" / 2012 Total Precipitation through 6/30 = 15.89"						
May 2012 Pcp = 1.95" / 2012 Total Precipitation through 5/30 = 13.39"						
Rainfall accumulation week of 6/27 through 7/4 = 0.10"						

Weather Facts

FROM NORTH EAST, PA.: Bryan Hed

Here is a brief update from North East PA.

Weather: We accumulated 564 growing degree days (gdds) in June (above average) and 1226 gdds from March 1 to July 4 (about 2 weeks ahead of average). We recorded just 1.96 inches of precipitation in June, about an inch less than our average. Our last storm system (July 3-4) dropped about 0.4 inches of precipitation, which is our total so far for July. The short term Skybit forecast for North East PA (Thursday through Saturday) calls for highs in the low to mid 80s and dry conditions through Saturday, July 7. In contrast, the Accuweather forecast calls for chance of thunderstorms today and Saturday (July 5 and 7), with relatively dry, warm, partly sunny conditions through Thursday (July 12) of next week.

Phenology and disease: We are approximately 4 weeks post bloom and Concord berries at our location are about 11-15 mm in diameter. Overall, the lack of rainfall during the most critical period for fruit infection has left most crops relatively disease free. Concord and Niagara berries are no longer susceptible to powdery and downy mildew, and if you're not seeing [black rot](#), our attention with regard to disease development on juice grapes shifts to leaves at this point. Continue to scout your vineyards for [downy mildew](#), as our latest rainfall period had the potential to generate an infection period for this disease in some vineyards. [Powdery mildew](#) is being observed on leaves, particularly new shoot growth as it distorts the expansion of new leaves. But sporulation of powdery mildew on leaves has been struggling to develop with any degree of severity, especially on sundrenched leaves. At this time of year, powdery mildew development is no longer dependent on rainfall and is generating secondary cycles of spores (conidia) that are spread by air currents to germinate and infect dry plant surfaces. However, the sunny conditions have adversely affected the development of these summer cycles of the disease.

For tight clustered wine varieties, growers should gear up to apply the preclosure spray for [Botrytis](#). Also, we are approaching that time when shoots of upright trained vines may need their first summer clipping. We like to put this off as long as possible because of the lateral growth it will initiate, but left to grow too long, shoots will flop over impeding the penetration of air, sunlight and pesticides into the cluster zone.

FROM THE DESK OF... Terry Bates, Ph.D.**2012 Crop Progress**

This week marks the 30 day-after-bloom timing in Lake Erie Concord vineyards and the typical time for crop estimation and thinning. Given that Concord bloom was nearly two-weeks earlier than average and that the crop was thinned by frost, there is little need to crop estimate for the purpose of crop adjusting. However, growers may want to continue with the crop estimation procedure to get a handle on what is actually hanging in the vineyard and prepare for harvesting schedules.

Here are some observations from Portland:**Floret count and percent set:**

Kelly Link measured florets and % berry set on Concord clusters from primary shoots and from secondary shoots (where the primary shoot was killed by frost). Clusters from primary shoots averaged 81 florets per flower cluster with 28% berry set. Both of these values are running slightly behind average and are likely a result of cold temperatures during the latter half of cluster development this spring. Interestingly, clusters from secondary shoots averaged 88 florets per flower cluster and 35% berry set. These higher numbers are likely a result of fewer clusters on secondary shoots and less chilling exposure during cluster development. The important message here with respect to crop estimation is not to count out the clusters from secondary shoots. If you have a frosted vineyard with 100% primary shoot loss or a mixed-bag of primary and secondary shoots, you probably have some crop recovery from the good fruit set on secondary clusters.

Berry weight and crop estimates:

Concord berry weight in Portland averaged 1.5 grams at 30 days-after-bloom and this is right around 50% of the predicted final berry weight given the type of season we are having. Vines with nearly 100% primary shoot loss are averaging 2-3 tons/acre in predicted final crop weight. Vineyards with a mixed-bag of frost damage are averaging 6 tons/acre in predicted final crop weight.

Comparing 1998 with 2012:

I went back and looked at the ripening data from 1998 (Bloom = June 4) to compare to 2012 (Bloom = June 2). In 1998, bloom was 6/4 and we would predict veraison approximately 69 days later on Aug 12. The actual 1998 veraison date was a few days later on Aug 17. Concord hit 13.4 Brix on Sept. 8, 15.1 on Sept. 14, and 16.0 on Sept 21. For this season, I might expect to see something similar with a slightly delayed veraison (especially with the low crop and the mixed bag of bloom dates). Strictly following the numbers, 69 days after June 2 is Aug 10 with 16 Brix possible the second week in September.

INTEGRATED PEST MANAGEMENT: Tim Weigle

[Grape Berry Moth Model on NEWA](#)

Using a standard of May 24, 2012 as the date of wild grape bloom (biofix) the table below shows where we stand across the Lake Erie Region in terms of degree day accumulation and [grape berry moth](#) development.

<i>Location</i>	<i>Degree Days on July 5</i>	<i>Forecasted Degree Day Accumulation for July 10</i>
North East Lab	948	1121
Harborcreek	975	1114
North East Escarpment	972	1111
Ripley	992	1132
Portland Route 5	959	1092
Portland (CLEREL)	948	1086
Portland Escarpment	953	1090
Silver Creek	929	1061
Sheridan	950	1089
Versailles	919	1049
Lockport	929	1064
Ransomville	943	1079
Appleton, North	914	1049

According to the model we are past the 900 growing degree day threshold where contact type insecticides would be effective against grape berry moth. Second generation larvae are now protected within berries and completing their development. There are no insecticides that are currently registered that have the 'reach' to go into the berry to kill the larvae so no applications should be considered at this time.

Scouting vineyard blocks when accumulations have passed 1470 DD will be the next important step in your grape berry moth management plan so keep accessing NEWA <http://newa.cornell.edu> to get the latest model information.

If you have any questions on how NEWA can be used in your vineyard IPM strategy, do not hesitate to get in touch with me at (716) 792-2800 x203 or by email at thw4@cornell.edu

Leaf Feeders

Scouting in vineyards the past week we have seen a lot of leaf feeding from;

- [Grape Rootworm](#) and [Steely beetle](#). It is too late to do anything about them now, but mark location on maps for management next year,



Grape Rootworm (Image LEFT) fact sheet:
<http://www.nysipm.cornell.edu/factsheets/grapes/pests/grw/grw.pdf>



Steely beetle, Image from: Univ. of Minnesota VegEdge



Grape rootworm feeding (LEFT)



Typical feeding pattern by the steely beetle larvae (LEFT)



- [Grape leafhopper](#). This secondary pest has only been shown to be a problem in Concords in drought years where the vineyard is over cropped),
Grape leafhopper fact sheet:
<http://www.nysipm.cornell.edu/factsheets/grapes/pests/glh/glh.pdf>

Summer form of adult Grape Leafhopper. Pale yellow with three black spots & some zig-zag lines of deeper yellow on the forewing. (Photo courtesy of NYS IPM)



- Potato leafhopper. Damage is not extensive at this point but worth keeping an eye on, especially in vine grape varieties and in vineyards near alfalfa fields. Once the field is cut the Potato leafhopper can move quickly into the vineyard looking for better feeding opportunities.
Image, LEFT, of Potato leafhopper courtesy of
<http://www.hort.uconn.edu/ipm/veg/htms/lfhoppic.htm>



- Japanese Beetle (*image LEFT*). We are starting to see more adults along with the feeding damage. It appears that most vineyards this year have plenty of leaves to feed the Japanese Beetle and ripen the crop but it is still important to get out into your vineyard blocks to determine feeding levels.
Image, LEFT, of Japanese beetle courtesy of
<http://www.news.cornell.edu/stories/May08/IPM.plant.website.sl.html>



Both Images (LEFT AND RIGHT) illustrate Japanese Beetle feeding



IN THE VINEYARD... with Andy Muza



REMINDERS FOR PENNSYLVANIA GROWERS:

Crop Report Reminder

According to Nancy Lewis (FSA office in Waterford, PA), “Growers are required to file annual crop reports. **Annual crop reports are required to qualify for the various subsidy programs. July 16th is the deadline to file their acreage reports, even on perennial crops. Late file fees are \$46 per farm.** Since this office has no way of knowing what is planted on the producer's acreage, it's necessary for the producers to come to the office to file their acreage report. Another option is that aerial photos of the producers' farms can be emailed to

them for completion”.

To avoid late fee, growers should contact their local FSA office to inquire about filing a Crop Report.

FOR PA GROWERS:

U.S. Department of Agriculture/Farm Service Agency Seeking Nominations

The U.S. Department of Agriculture/Farm Service Agency is accepting nominations for a County Committee member to serve agricultural producers residing in North East, Harborcreek, Millcreek, Fairview, Girard and Springfield Townships.

The Farm Service Agency County Committee makes important decisions about disaster and conservation programs, commodity price support loans and other agricultural issues affecting local agricultural producers.

Nomination forms are available online at www.fsa.usda.gov/elections or may be obtained from the local FSA Office located at 12723 Rte 19, Waterford, PA 16441.

Deadline to submit nomination forms to the Erie County FSA office is August 1, 2012.

Flyer is included at the bottom of this update!

BUSINESS MANAGEMENT: Kevin Martin



PA Estate and Inheritance Tax Update

Pennsylvania recently updated the estate and inheritance tax scheme providing benefits to P.A. farmers. Pennsylvania’s estate tax lacks the progressivity of the federal tax as well as other states. Taxable wealth is given no exemption and is taxed at the first dollar. This makes it much more difficult to plan for legally, it requires financial planning instead.

The tax rate is determined by the relationship of the beneficiaries to the decedent:

- 0% spouse
- 4.5% lineal heirs - children, grandchildren, etc.
- 12% (siblings - brother/sister)
- 15% collateral heirs

An exemption is now provided for farm assets that pass to close family members who continue farm operation. The exemption also applies to realty transfers to a Corporation that is closely held and managed by the same family.

The legislation has attempted to limit this exemption not just to farming activity but specifically family farms. Shared ownership between non-family members or distant family members is limited to 24%.

The principals of estate tax remain unchanged at the federal level, with very high general exemptions coupled with a high percentage taxed thereafter. The New York system has minor differences but follows the same general principles. As always farm land for valuation purposes is valued as farmland rather than its true value, which in some cases could be much greater.

Farm transfers to spouses and linear heirs were possible under the old scheme. Assuming the wealth of a typical 200 acre grape grower, a 4.5% tax on farm value is something that could be planned for financially or financed during probate. However, this type of exemption removes this hurdle from what is otherwise a very challenging process. It is very difficult for most estates to have enough cash to make equitable transfers to heirs, as defined by the senior generation, without jeopardizing the sustainability of the farming operation. Freeing up cash to increase the fairness of the distribution to heirs not interested in farming bodes well for long-term sustainability.

GRAPE CULTURAL PRACTICES: Jodi Creasap-Gee, Ph.D.

I will be out of the office on maternity leave until the first week of August. In the meantime, growers can contact one of the other LERGP team members.

Below is an announcement from Andrew Landers! Please read and RSVP if you are able to attend!

2ND NORTH EAST VINEYARD EQUIPMENT SHOW AND DEMONSTRATION

Anthony Road Vineyards, Penn Yan, NY 14526.

25th and 26th July 2012

9.00 am until 4.30pm

Andrew Landers of Cornell University is hosting a vineyard equipment show and demonstration in the heart of the Finger Lakes grape growing region on July 25th and 26st 2012, at Anthony Road Vineyards, 1020 Anthony Road, Penn Yan, NY 14526 on Route 14, between Geneva and Penn Yan (by kind permission of John and Peter Martini).

Come and meet equipment manufacturers and dealers and see their machines working in a vineyard. Equipment to be shown includes canopy and weedsprayers, electronics for spraying, canopy hedgers and trimmers, tractors, mechanical weeders, leaf pullers/removers, hilling machines and trellis supplies.

A special theme for 2012 is the "Use of engineering methods to improve pesticide application" to match the SWCD grants in Seneca, Schuyler and Yates Counties.

Pre-registration is required: contact [Gemma Osborn](mailto:Gemma.Osborn@NYSAES.com) at NYSAES, Cornell University, 630 West North St., Geneva, NY 14456.

Email: gro2@cornell.edu Tel: 315 787 2248 stating **which day** you will be attending. Lunch will be available and 4 pesticide credits will be awarded by NY DEC.

Go to <http://lergp.cce.cornell.edu/EventsCalendar.htm> for a detailed calendar of events including maps via Google calendar. Scroll to the bottom of the page for Google calendar and click on the event. Please remember to RSVP for those events that require one!



WEDNESDAY JULY 11, 2012: REGISTRATION DEADLINE - 2012 LERGP Summer Growers' Conference

COFFEE POT MEETING



DATE: Wednesday, July 11, 2012
TIME: 10am – 12Noon
LOCATION: Leo Hans vineyard, 10929 W. Perrysburg Rd., Perrysburg, NY
Coffee Pot Meetings are free and no RSVP is required. Come join us and your colleagues for timely discussions about what is happening in our local vineyards!

COFFEE POT MEETING

DATE: Wednesday, July 18, 2012
TIME: 10am – 12Noon
LOCATION: Paul Bencal vineyard, 2645 Albright Rd. Ransomville NY 14131



2012 LERGP SUMMER GROWERS' CONFERENCE

DATE: Wednesday, July 25, 2012
LOCATION: North East Lab, 662 N. Cemetery Road, North East, Pa 16428
Registration form link below and at bottom of this Update:

http://lergp.cce.cornell.edu/Reg%20form_SummerGrowersConference_2012
REGISTRATION DEADLINE: July 11, 2012 / \$25.00 fee for Late Registration
 Lunch is included with registration.

AGENDA

9:00 AM REGISTRATION AND TRADESHOW

10:00 AM – 12:00 PM GENERAL SESSION

- 10:00 – 10:30 Management of Grape Berry Moth Using the New Degree Day Model - *Andy Muza, Lake Erie Regional Grape Program, Penn State*
- 10:30 – 11:00 Using Sensor Technology to Identify Vineyard Vine Variability - *James Taylor, Lake Erie Regional Grape Program, Cornell*
- 11:00 – 11:30 Invasive Insects: Who are they? Where are they? Do we have them? Can we kill them? - *Jody Timer, Dept. of Entomology, Penn State*
- 11:30 – 12:00 Clonal Selection for Fruit Quality Improvement in Vignoles - *Peter Cousins, USDA, Geneva Experiment Station*

12:00-2:00 PM LUNCH, VISIT VENDORS

2:00-4:30 GENERAL SESSION

- 2:00 – 2:30 Variability of site and weather parameters on vine growth and yield (nine site study). *Terry Bates, Director, CLEREL*
- 2:30 – 3:00 Impacts of Phomopsis Control Strategies on Yield in Concord and High Brix Niagara Grapes, *Bryan Hed, Department of Plant Pathology, Penn State*

- 3:00 – 3:30 Vine Size Variability: Economic Value of Lost Crop Potential, *Kevin Martin, Lake Erie Regional Grape Program, Penn State*
- 3:30 – 4:00 Using NEWA Resources in Your Vineyard IPM Strategy, *Tim Weigle, NYS IPM Program*
- 4:00 – 4:30 NE-1020 Variety Trial Project and Farm Tour, *Bryan Hed, Jody Timer, Andy Muza*

4:30 PM ADJOURN

REGISTRATION FORM:

http://lergp.cce.cornell.edu/Reg%20form_SummerGrowersConference_2012.pdf

NY AND PA CREDITS HAVE BEEN APPLIED FOR



2ND NORTH EAST VINEYARD EQUIPMENT SHOW AND DEMONSTRATION

DATE: Wednesday, July 25, 2012 and Thursday, July 26, 2012

TIME: 9am – 4:30pm

LOCATION: Anthony Road Vineyards, 1020 Anthony Road, Penn Yan, NY 14526 on Route 14, between Geneva and Penn Yan

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in the heart of the Finger Lakes grape growing region on July 25th and 26st 2012, at Anthony Road Vineyards, 1020 Anthony Road, Penn Yan, NY 14526 on Route 14, between Geneva and Penn Yan (by kind permission of John and Peter Martini).

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Pre-registration is required: contact Gemma Osborn at NYSAES, Cornell University, 630 West North St., Geneva, NY 14456.

Email: gro2@cornell.edu Tel: 315 787 2248, stating which day you will be attending.

Lunch will be available and 4 pesticide credits will be awarded by NY DEC.



TWO WORKSHOPS AVAILABLE: LAKE ERIE WINE TOURISM STUDY RESULTS TO BE RELEASED

DATE: Wednesday, July 25, 2012

TIME: 6:30pm

LOCATION: South Shore Wine Company, 1120 Freeport Rd., North East, PA. 16428

and

DATE: Monday, July 30, 2012

TIME: 6:30pm

LOCATION: CLEREL conference room, 6592 W Main Rd. Portland NY

Donna Quadri-Felitti will present two workshops on the results and how they can be leveraged by local businesses to enhance the tourist's experience. The first is on Wednesday, July 25 at 6.30 p.m., at the South Shore Winery in North East, Penn. The second workshop is Monday, July 30 at 6.30 p.m. at the Lake Erie Regional Grape Research and Laboratory in Portland, NY.

Both workshops are open to local businesses who participated in the study as members of the Chautauqua County Visitors Bureau, North East Chamber of Commerce, VisitERIE, Lake Erie Concord Grape Belt Heritage Association, and Lake Erie Wine Country.

Pre-registration is required. To register, email quadri@nyu.edu.

PLEASE NOTE: Next Electronic Crop Update will be Thursday, July 12, 2012

Lake Erie Regional Grape Program Crop Update is an e-mail newsletter produced by the Lake Erie Regional Grape Program and sent out by subscription only. For subscription information, please call us at 716.792.2800 ext 201, or look for subscription forms at http://lergp.cce.cornell.edu/Join_Lergp.htm.

For any questions or comments on the format of this update please contact Tim Weigle at: thw4@cornell.edu.

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Lake Erie Regional Grape Program Team Members:

[Andy Muza](#), Extension Educator, Erie County, PA Cooperative Extension, 814.825.0900

[Tim Weigle](#), Grape IPM Extension Associate, NYSIPM, 716.792.2800 ext. 203

[Jodi Creasap Gee](#), Viticulture Extension Associate, CCE, 716. 792.2800 ext. 204

[Kevin Martin](#), Business Management Educator, 716. 792.2800 ext. 205

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<http://grapesandwine.cals.cornell.edu/cals/grapesandwine/appellation-cornell/index.cfm>

[2011 Appellation Cornell Newsletter Index:](#)

<http://grapesandwine.cals.cornell.edu/cals/grapesandwine/appellation-cornell/2011-index.cfm>

[Veraison to Harvest newsletters:](#)

<http://grapesandwine.cals.cornell.edu/cals/grapesandwine/veraison-to-harvest/index.cfm>

[NY Grape & Wine Classifieds](#) – New Address! - <http://flgclassifieds.cce.cornell.edu/>

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**