Important dates:

Coffee Pot Meetings have concluded for the 2016 growing season. A special thank you goes out to all who have hosted this year. We look forward to a “fruitful” harvest season.

See the flyers for more information on the following events:
August 2, 2016- Wine Quality Workshop (rescheduled from April 13, 2016) at CLEREL**
August 3, 2016- Grape Twilight Meeting and Erie County Horticulture Society’s Annual Chicken BBQ**
August 11, 2016 Craft Beverage Summit at CLEREL
August 31, 2016- Cornell Vegetable Program Field Day at CLEREL
September 1, 2016- Cover Crop Conference at CLEREL

**Registration for the Wine Sanitation Workshop and the Gravel Pit Park BBQ have closed.**
The Cornell Vegetable Program is hosting a Sustainable and Organic Vegetable Pest Management Field Day on August 31, 2016 at the Cornell Lake Erie Research and Extension Laboratory in Portland, NY. Extension Vegetable Specialists, Darcy Telenko, Judson Reid, and Robert Hadad along with Abby Seaman, Vegetable IPM Coordinator, and Cornell faculty Prof. Christine Smart and Prof. Stephen Reiners will be leading research site tours and answering questions on sustainable and organic pest management options for fresh market vegetable growers. Information will be provided for both conventional and organic growers at all levels of expertise. Industry representatives will have the opportunity to meet with growers to comment on their products. DEC and CCA credits have been applied for to be available for this field day.

Topics:
- Weed Management in Sweet Corn, Pumpkin, Winter Squash and Root Crops
- Disease Management in Organic Cucumber and Tomato Production
- Vegetable Disease Control Update
- Insect management and Specialty Crop Vegetable Variety Demonstration
- Improving Fertility Management in Vegetable Crops
- Updates on Ongoing Research Projects in the Region

Research trials comparing conventional and zone-tillage weed management options in pumpkin and winter squash will be on display. The peculiarities in regards to weed management for each tillage system will be discussed including the practice of a stale-seed bed technique using a herbicide or flame-weeder burn-down treatment as effective weed management tools. In addition, the stale-seed bed technique will be presented for use in beet and parsnip. Growers will be able to view the different weed management tools, look at the economics of utilizing each system, and ask questions. This
session will also include a viewing of sweet corn herbicide programs plots to evaluate their effectiveness in controlling weeds. Judson Reid and Abby Seaman will discuss the major tomato and cucumber diseases in New York in high tunnels and field, what symptoms we are looking for, and organic management tools available including resistant varieties and organic pesticides. Research trials will be showcasing varieties with host resistance and organic programs using disease forecasting. Dr. Christine Smart will discuss the best crop production practices for managing and controlling disease caused by bacteria, oomycetes, fungi, and viruses. New management options including host resistance, products, or techniques that are available will also be discussed. Robert Hadad, will give a hands-on demonstration of how to identify insect the pests; check for management issues that may improve or decrease insect control; and control options. In addition, a number of varieties of a diverse assortment of vegetable crops will be on display for growers to view. Dr. Steve Reiners will discuss the importance of correct crop fertility and how fertility has wide reaching impacts on yield, and more is often not better. Excessive fertility can promote weed growth and insect pressure, while insufficient nutrition leaves crops more susceptible to stresses like disease.

Pre-registration $25 CVP enrollees/$35 all others, includes steak dinner and handouts. Pre-registration required by **August 25, 2016**. Call 716-652-5400 or online at [http://cvp.cce.cornell.edu/event.php?id=565](http://cvp.cce.cornell.edu/event.php?id=565)

Walk-ins welcome to join the program $35 at the door, but will not receive dinner ticket unless pre-registered by Aug 25, 2016.

Growers will also be able to view research projects at CLEREL and are encouraged to attend a Cover Crop Workshop and Field Day the next day September 1. [http://lergp.cce.cornell.edu/event.php?id=268](http://lergp.cce.cornell.edu/event.php?id=268)

A key component of this event is the support provided by industry organizations. Contributing organizations will be recognized as an integral part of this dynamic event. Sponsorships are available for both the Vegetable Field Day and Cover Crop Field contact Darcy Telenko at 716-697-4965 or dep10@cornell.edu for more details.

**About Cornell Cooperative Extension Cornell Vegetable Program**

The Cornell Vegetable Program is one of the premier regional agricultural Cornell Cooperative Extension programs in New York, serving a large multi-county region in the Western part of the state. The team’s Vegetable Specialists work together with Cornell faculty and extension educators statewide to address the issues that impact the industry. The Cornell Vegetable Program provides educational programs and information to growers, processors and agri-business professionals, arming them with the knowledge to profitably produce and market safe and healthful vegetable crops, contributing to the viability of farms and the economic wellbeing of New York State. Specifically, our program focuses on food safety, variety evaluation, market development, pest management, and cultural practices.
The Cornell Vegetable Program is supported, in part, by twelve county Cornell Cooperative Extensions of Western New York: Allegany, Cattaraugus, Chautauqua, Erie, Genesee, Monroe, Niagara, Ontario, Orleans, Seneca, Wayne and Yates Counties.

Cucumber and tomato variety trials at Cornell Lake Erie Research and Extension Laboratory. Photo Credit Darcy Telenko, CVP.
Cover Crop Workshop and Field Day

September 1, 2016 @ CLEREL
9:00am-4:00pm
6592 West Main Rd.
Portland, NY 14769

Join the Lake Erie Regional Grape Program for a full day of education surrounding cover crops in Concord vineyards.

- Current research
- Leading scientists in cover crop research
- Tour demonstration plots
- Hear local growers sharing their experience

Fee: $10; includes morning refreshments and lunch

Register by August 25, 2016 at the LERGP web-site [Registration] or call Kate at 716-792-2800, e-mail: kjr45@cornell.edu
Business Management

Kevin Martin
Penn State University, LERGP,
Business Management Educator

On Vacation
Water Stress and Berry Size

The current drought was again the topic at the most recent coffee pot meeting. This week we were in Niagara County where some areas have only accumulated three inches of rain for the past 3 months. Although most vineyards seemed to be faring well under the circumstances, we did see some blocks that were showing symptoms of severe water stress.

Following the berry curve, we can see the continued effects water stress has on berry size. Samples this week came in 24% below average. Vines suffering from water stress have had decreased cell division limiting the cells in the berries and reducing berry size. Other symptoms of water stress are cupping and chlorotic (yellowing) leaves (picture below), reduced shoot length and leaf size, and leaf drop.

Currently, here at CLEREL, we are 7.5 inches below average for rainfall. However, depending on your location this amount may change. I have included two columns in the NEWA table on the next page to include weekly precipitation and accumulated precipitation totals for May June and July. Niagara County is noticeably dryer than the immediate belt with areas only receiving 3 inches in the past three months.

The NOAA ‘Drought Monitor’ has maintained the status of “Severe Drought” (two pages ahead) for most of the region. Growers in PA are still in “Moderate Drought"
Lake Erie Grape Region NEWA Weather Data

<table>
<thead>
<tr>
<th>Location</th>
<th>Past week Precip</th>
<th>Precip. July Past27 days</th>
<th>Precip. June total</th>
<th>Precip May total</th>
<th>May, Jun &amp; July Total</th>
<th>Total March GDD</th>
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</thead>
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<tr>
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<td>2.12</td>
<td>1.92</td>
<td>2.13</td>
<td>6.17</td>
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<td>Harborcreek, PA</td>
<td>0.85</td>
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<td>1.74</td>
<td>1.68</td>
<td>5.07</td>
<td>1466</td>
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<td>2.37</td>
<td>1.52</td>
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<tr>
<td>Ripley</td>
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<td>0.97</td>
<td>3.86</td>
<td>1.50</td>
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<td>1.44</td>
<td>1.48</td>
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<td>1442</td>
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<tr>
<td>Portland Escarpment</td>
<td>0.47</td>
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<td>1.24</td>
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<td>3.94</td>
<td>1514</td>
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<tr>
<td>Dunkirk</td>
<td>1.15</td>
<td>1.32</td>
<td>2.16</td>
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<td>Silver Creek</td>
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<td>NA</td>
<td>1.78</td>
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<tr>
<td>Sheridan</td>
<td>1.12</td>
<td>1.58</td>
<td>2.23</td>
<td>1.85</td>
<td>5.66</td>
<td>1460</td>
</tr>
<tr>
<td>Versailles</td>
<td>0.81</td>
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<td>1.47</td>
<td>1.72</td>
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<td>1366</td>
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<td>Appleton North</td>
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<td>0.71</td>
<td>3.10</td>
<td>1306</td>
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<td>Somerset</td>
<td>2.43</td>
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<td>Ransomville</td>
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<td>0.93</td>
<td>0.92</td>
<td>3.09</td>
<td>1527</td>
</tr>
</tbody>
</table>

Note: All Weather data reported as of 7/27/2016 NA=Sensor Malfunction. Precip in inches.
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

**Author:**
Brad Rippey
U.S. Department of Agriculture

http://droughtmonitor.unl.edu/
Should I Spray for Grape Leafhopper?

I have been getting an increase in questions about grape leafhopper management as their populations are becoming noticeable in a number of vineyards in the southern portion of the Lake Erie grape belt. Typically, grape leafhopper is a secondary pest which does not require treatment except in years like this, where moisture is lacking and the warm temperatures are running the leafhopper through their generations at a rapid pace. With grape leafhopper, it is all about location as not every vineyard has them, and not every vineyard that does have them, have populations worth worrying about at this time. The good news is that grape leafhopper is easily controlled by a number of different active ingredients, and typically at the lower rates, so you can watch the populations to see if they build (or our weather pattern changes and we catch up on our rainfall which means we can deal with more leafhopper) before making the application. And, if you are planning an insecticide application for grape berry moth, you can wait until that application and you will be managing two insects with one application.

Speaking of Grape Berry Moth…

According to the NEWA model, all the stations indicate we are well past the 810 DD needed to time an insecticide application in vineyards at intermediate and high risk for damage from grape berry moth. According to the extended DD forecast on the NEWA GBM model, a number of stations will be at, or past, at 1470 DD which indicates the start of the scouting period to determine the need for an application against the third generation. Threshold at this scouting time is 15% damaged clusters. Remember that it only takes one berry with GBM damage to qualify as a damaged cluster. The table below shows the GBM model results from NEWA for sites in the Lake Erie region using the estimated date of wild grape bloom (the biofix that is used to start the grape berry moth model. Sheridan, Portland, Portland Escarpment, Ripley, Harborcreek, North East Lab and Ransomville all should be at or over 1470 DD by next Tuesday, August 2 with the Erie Airport already meeting that DD threshold. Continue to access the grape berry moth model for the station(s) nearest you on the NEWA website http://newa.cornell.edu to get a “heads-up” on when you should start scouting for the next generation of grape berry moth. Accessing the GBM model page on NEWA also provides you with information on the pest status and what pest management measures should be taken as shown in the figure below.

<table>
<thead>
<tr>
<th>NEWA Location</th>
<th>Wild grape bloom date*</th>
<th>DD Total on July 28, 2016</th>
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</thead>
<tbody>
<tr>
<td>Versailles</td>
<td>May 30</td>
<td>1335</td>
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<tr>
<td>Dunkirk Airport</td>
<td>June 3</td>
<td>1267</td>
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<tr>
<td>Sheridan</td>
<td>May 31</td>
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<td>Silver Creek</td>
<td>June 3</td>
<td>1272</td>
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<tr>
<td>Portland Escarp.</td>
<td>May 31</td>
<td>1365</td>
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<td>Portland</td>
<td>June 1</td>
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<tr>
<td>Ripley</td>
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<td>North East Lab</td>
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<td>Ransomville</td>
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<td>Somerset</td>
<td>June 3</td>
<td>1305</td>
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<tr>
<td>North Appleton</td>
<td>June 10</td>
<td>1127</td>
</tr>
</tbody>
</table>

* Estimated date provided by NEWA website
With all the talk about climate change you might be wondering how it will affect food production, pests, and even landscapes - and what you can do about it. The Second Annual NYS Integrated Pest Management conference can help! **Climate, Weather, Data: Protecting Our Crops and Landscapes** will be held **August 15, 2016** at the Cornell Cooperative Extension Office in Voorheesville, NY.

A wide variety of speakers from NYS and the Northeast will provide background information on the current state of knowledge on climate change and changes in our weather patterns, and how collecting climate and weather data can help us predict and manage pests. Mike Hoffmann and Allison Chatrchyan from the Cornell Institute for Climate Change and Agriculture ([www.climateinstitute.cals.cornell.edu](http://www.climateinstitute.cals.cornell.edu)) will discuss what you can do about climate change, and the Climate Smart Farming Program. Jerry Brotzge will explain the NYS Mesonet ([www.nysmesonet.org](http://www.nysmesonet.org)). Juliet Carroll from NYS Integrated Pest Management will cover the tools for growers in the Network for Environment and Weather Applications system ([www.newa.cornell.edu](http://www.newa.cornell.edu)). David Hollinger will present resources from the Northeast Regional Climate Hub ([www.climatehubs.oce.usda.gov](http://www.climatehubs.oce.usda.gov)). Open discussion sessions are included so you can ask your own questions. The final agenda will be available soon, so stay tuned!

We are honored that Richard Ball, the Commissioner of the NYS Department of Agriculture and Markets, will kick off the conference with opening remarks.

The program will run from 9:00-4:15 and costs $45 – which includes lunch, and breaks.

Registration information, a map, and the draft agenda can be found at the [Climate, Weather, Data website](http://Climate, Weather, Data website).

If you have questions, please contact Amanda Grace at arw245@cornell.edu or 315 787-2208.
Save the Date!

When: August 15, 2016, 9:00 – 4:15
Where: Cornell Cooperative Extension Albany County, Voorheesville, NY

With all the talk about climate change you might be wondering how it will affect food production, pests, and even landscapes - and what you can do about it. The Second Annual NYS Integrated Pest Management conference can help!

A wide variety of speakers from NYS and the Northeast will provide information on the current state of knowledge on climate change, changes in our weather patterns, and how collecting climate and weather data can help us predict and manage pests. Join us to learn and discuss!

$45 includes materials, lunch, and breaks.

The draft agenda, registration information, and map can be found at: [tinyurl.com/hq8tbn2](http://tinyurl.com/hq8tbn2)

If you have questions, please contact Amanda Grace at arw245@cornell.edu or 315-787-2208.
In the Vineyards, PA
In the Vineyard (7-28-16)

Diseases

Powdery mildew – incidence of powdery mildew on leaves remained at low levels in sites examined (Figure 1). However, symptoms on terminal leaves on Concord shoots are becoming more evident (Figure 2).

Black rot – a positive aspect of the dry weather this season is that black rot infections have been rare. But, this week at 1 site, I actually found black rot on Concord berries in rows bordering a wooded area (Figure 3). Although Concord berries are now past the point of susceptibility to black rot infections, the potential for infection is up to 6 weeks after bloom. Therefore the berries that I found with black rot were infected at the end of the susceptibility period and are just now starting to show symptoms.

Insects

Grape Berry Moth – this week at 1 Severe Risk site I was still able to find GBM eggs. This site historically has very high levels of GBM injury and this year is no exception. Note that a site like this is not indicative of the vast majority of sites throughout the region. At High, Moderate and Low risk sites no eggs were found.

The GBM Degree Day Model in NEWA [http://newa.cornell.edu/index.php?page=berry-moth](http://newa.cornell.edu/index.php?page=berry-moth) indicates that scouting for the next generation should begin when degree day accumulation reaches 1470 DD. This should occur sometime next week for vineyards in our region. Depending on the temperatures at the various sites in our region, the next application for GBM should be applied the second or third week in August.

Grape leafhopper – GLH feeding injury (Figure 4) and some nymphs and adults were found at more sites this week. Population levels were still low at the majority of sites, although a few blocks started to show noticeable increases in feeding injury on the leaves. However, levels were not yet high enough to even consider an insecticide application. Monitor blocks for potential buildup of GLH populations as the season progresses.
2016 eNEWA Grape Project Subscription Sign-Up

Subscriber information

Name

Email address

City

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

<table>
<thead>
<tr>
<th>Lake Erie Region</th>
<th>Sheridan</th>
<th>Finger Lakes Region</th>
<th>Lodi (Shalestone)</th>
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<td>Appleton, South</td>
<td>Versailles</td>
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<td>Dunkirk</td>
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<td>Erie</td>
<td>Aurora</td>
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<td>Lodi (Standing Stone)</td>
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<td>Branchport</td>
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<td>Romulus (B. wood Grove)</td>
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<td>North East Lab</td>
<td>Dundee (Weimer)</td>
<td>Romulus (Thirsty Owl)</td>
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<td>Portland</td>
<td>Fayette 3 Brothers</td>
<td>Varick (Swedish Hill)</td>
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<tr>
<td>Portland Escarpment</td>
<td>Geneva</td>
<td></td>
<td>Watkins Glen</td>
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<td>Portland Route 5</td>
<td>Geneva (Bejo)</td>
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<td>Watkins Glen (Lakewood)</td>
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<td>Ransomville</td>
<td>Hector</td>
<td></td>
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<tr>
<td>Ripley</td>
<td>Interlaken (Airy Acres)</td>
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</table>

Select eNEWA Delivery Times (write in times below) Delivery requests should be on the hour.

Mail to:  Tim Weigle, CLEREL, 6592 West Main Road, Portland, NY or scan and email to thw4@cornell.edu
Chautauqua Industrial Development Agency, Chautauqua County Department of Planning and Economic Development, Cornell Lake Erie Regional Grape Program, and Cornell Cooperative Extension of Chautauqua County proudly present the inaugural Chautauqua County Craft Beverage Summit.

Malting barley, cooperatives, hops production and the potential for the craft beverage industry in NYS will be discussed with all aspects covered from producing the raw materials, producing a craft beverage, marketing the finished product and working together to bring a craft beverage operation to fruition in Chautauqua County.

Defining - Discovering - Developing

Thursday, August 11, 2016
8:00 AM - 3:00 PM
CLEREL
6592 West Main Road
Portland, NY 14769
And
21 Brix Winery

Space is LIMITED for this FREE Event
Don't Delay- Register today at: https://lergp.cce.cornell.edu/event.php?id=270

Thursday, August 11

Agenda (may be subject to change)
8:00 am
Registration
8:15 am
Welcome
8:45 am
Climbing Bines
9:15 am
Star Cider
9:55 am
NY Craft Malt, LLC
10:15 am
Liberty Vineyards
10:15 am
Break/CCE Tour
11:00 am
Harvest NY
11:30 am
Cooperatives
12:00 pm
Mazza Winery
12:30 pm
Lunch
1:00 pm
Five & 20 Spirits and Brewing
2:00 pm
Olde Chautauqua Farms
2:30 pm
Question & Answers

Mark C. Muir Agency
Mark C. Muir
10509 Route 6 • Union City, PA 16438-9707
Phone: (814) 397-0033

Department of Planning and Economic Development, Chautauqua County Department of Planning and Economic Development, Cornell Lake Erie Regional Grape Program, and Cornell Cooperative Extension of Chautauqua County proudly present the inaugural Chautauqua County Craft Beverage Summit.

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Olde Chautauqua Farms
2:30 pm
Question & Answers

Mark C. Muir Agency
Mark C. Muir
10509 Route 6 • Union City, PA 16438-9707
Phone: (814) 397-0033

Join us at the Lake Erie Regional Grape Program
Annual Winter Grower Conference!

Stop by our booth between 8:00 am and 4:00 pm to be registered to win a prize and learn how we can help protect your grape crop from loss of production.

When: Tuesday, March 22, 2016
Where: Williams Center at SUNY Fredonia - 280 Central Ave., Fredonia, NY 14063

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Mark C. Muir
10509 Route 6 • Union City, PA 16438-9707
Phone: (814) 397-0033
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Phone: (301) 512-3977
jsmosier1@gmail.com

7653 Dutton Rd.
Harborcreek, PA 16421

**Brookside Society of Professional Consultants**
Check out our new Facebook page!!
Cornell Lake Erie Research & Extension Laboratory Facebook page

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-cc

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, registration, membership, and to view past and current Crop Updates and Newsletters.

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• Choice of open platform, standard Blue Cab™ or new Blue Cab™ 4 with cab level 4 protection (meets European Standards for filtration and pressurization EN 15695-2:2009 and EN 15695-1:2009)
• Large rear hitch lift capacity up to 4,400 lbs

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