



Finger Lakes Vineyard Update

In the Vineyard

Gillian Trimber

Ready, set, go: we're at fruit set in most Finger Lakes vineyards now, moving swiftly toward pea-sized berry or past it depending on the variety. Canopies are filling in, and unlike prior to bloom, when the vines were primarily drawing upon carbohydrate reserves in the roots to fuel growth, over the past few weeks our vineyards have switched into photosynthesizing power plants. Berries are in a phase of rapid development and cell division, requiring plenty of the vine's energy. At this point in the season, everything the vine does is about growth.

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Berries developing on a Noiret cluster, 6/26/17.



Hail damage on vines at the Watkins Glen racetrack a few weeks ago. Photo by Ben Stamp.

We've had at least a sprinkling of rain nearly every day this week, fueling both vine growth and grower frustration. Some storm cells have been dramatic and damaging: nearly two inches of quarter-inch diameter hail fell on the east side of Cayuga Lake yesterday as a line of thunderstorms rolled over the area. Moderate hail damage results in holes and rips in leaves, broken shoots, and bruised clusters. More extreme hail damage can essentially strip a vine of foliage. It's been a dramatic summer so far, and more thunderstorms are forecast for the next few days. Hopefully the system will pass without too much more excitement.

IPM

Gillian Trimmer

Disease Management

Rain and full, fast-growing canopies are pushing the odds in favor of disease development this week, one of the most critical times of year for disease control. Leaves and clusters have been wet for at least a few hours each day, and the berries have yet to develop ontogenic, or age-based, resistance to any of the major pathogens. Botrytis, downy mildew, powdery mildew, black rot, phomopsis, and in some cases anthracnose are all still active at this point, with botrytis really in full swing. The good news is, inoculum levels from last year are low, and the bright, breezy days we've had between rainstorms should be helping to counteract the wet periods. Still, it's best to err on the side of caution at this point in the season, and use effective materials at their full rates.

Phenological stage: 1st postbloom ▼

Choose the phenology stage for the grape variety of interest to display management messages. Concord grape phenology is estimated by the model from historical records for this variety.

Disease	Disease Management
Phomopsis	Fruit infections can occur from early bloom through the postbloom period, then remain dormant until severe fruit rot develops at harvest. Rachises also remain susceptible during this period. Monitor infection events and maintain fungicide protection, especially on <u>susceptible varieties</u> , in hedged vineyards, or locations with a history of Phomopsis.
Powdery Mildew	The explosive secondary infection season has begun. Infections are favored when prolonged cloud cover, humid (>60% RH), <u>warm (63-86F)</u> days and nights prevail. This is the most critical time of the year for control of cluster infections on all varieties. Management programs should be at their peak, emphasizing the use of effective fungicides, full rates, appropriate spray intervals, and superior spray coverage.
Black Rot	Do not delay black rot sprays beyond this stage. The immediate prebloom through early postbloom periods are critical for management of black rot. Keep track of infections events and maintain fungicide protection accordingly. Concords can become infected up to 6 weeks after the last cap has fallen, and <i>V. vinifera</i> varieties up through 7 weeks postbloom.

IPM (continued from page 2)

Gillian Trimmer

[Hide grape infection events log](#)

[Show leaf wetness events log](#)

Grape Infection Events Log

When calculating combined wetting periods we use the following rules: 1) an infection event must start with precipitation, 2) successive wetting periods are combined into a single infection event until a dry period of over 24 hours or a wetting period with no precipitation is encountered.

Starting Date/Time	Ending Date/Time	Hours LW	Avg Temp	Total Rain	Phomopsis	Black Rot	Combined Event
Download Time: 6/29/2017 7:00							
Jun 25 14:01	Jun 27 15:00	7	61.7	0.45	Infection	No infection	Yes
Jun 23 21:01	Jun 24 6:00	7	68.2	0.28	Infection	Infection	Yes
Jun 23 21:01	Jun 24 6:00	7	68.2	0.28	Infection	Infection	Yes
Jun 18 18:01	Jun 21 6:00	22	66.9	0.65	Infection	Infection	Yes
Jun 4 8:01	Jun 6 1:00	20	59.9	0.53	Infection	Infection	Yes
May 29 4:01	May 30 20:00	13	63.4	0.51	Infection	Infection	Yes
May 26 15:01	May 28 8:00	9	59.8	0.17	Infection	Infection	Yes
May 25 5:01	May 26 8:00	11	56.4	0.71	Infection	No infection	Yes
May 4 15:01	May 7 20:00	60	48.3	1.52	Infection	No infect; temp<50	Yes
Apr 20 14:01	Apr 21 16:00	20	54.0	1.90	Infection	Infection	Yes
Apr 15 13:01	Apr 16 16:00	7	63.0	0.29	Infection	No infection	Yes
Apr 3 22:01	Apr 4 18:00	11	52.4	0.34	Infection	No infection	Yes

Disclaimer: These are theoretical predictions and forecasts. The theoretical models predicting pest development or disease risk use the weather data collected (or forecasted) from the weather station location. These results should not be substituted for actual observations of plant growth stage, pest presence, and disease occurrence determined through scouting or insect pheromone traps.



Grape Berry Moth

Judging by the NEWA Grape Berry Moth forecast model, vineyards anticipating high levels of grape berry moth this season should be prepared to spray sometime next week, or whenever they reach 810-850 growing degree days (GDD) after wild grape bloom. Insecticides that work through ingestion by the insect should be used at 810 GDD; those that work through contact should be used between 810-850 GDD. For the Teaching Vineyard in Dresden, we should reach that point right around the Fourth of July. Vineyards that have seen low or moderate levels of grape berry moth pressure in past years should begin scouting at 700 GDD after wild grape bloom to see if damage levels justify chemical control. In Dresden, we're forecast to reach 700 GDD tomorrow; Geneva will reach 700 GDD around July 3rd.

Visit <http://newa.cornell.edu/index.php?page=grape-diseases> to check the model for your closest weather station and, if you know it, the wild grape bloom date for your location.

IPM (continued from page 3)

Gillian Trimmer

NEWA for Grapes

NEWA Grape Forecast Models

Select a disease or insect:
Grape Berry Moth

State:
New York

Weather station:
Dresden (FLGP/FLCC)

Date of Interest:
6/28/2017

Calculate

Map
Results
More info

Grape Berry Moth Results for Dresden (FLGP/FLCC)

Wild Grape Bloom: 5/27/2017

Wild Grape Bloom date above is estimated based on degree day accumulations or user input. Enter the actual date for blocks of interest and the model will calculate the results more accurately.

Accumulated degree days (base 47.14°F) wild grape bloom through 6/28/2017: 643 (0 days missing)

Daily Degree Days for Dresden (FLGP/FLCC)								
Base Temp	Past	Past	Current	5-Day Forecast				
	Jun 26	Jun 27	Jun 28	Jun 29	Jun 30	Jul 1	Jul 2	Jul 3
47.14F - GBM	15	13	19	24	29	29	26	23
Accumulation	618	631	649	673	702	731	757	779

NA - not available

Download Time: 6/28/2017

Pest Status	Pest Management
Feeding by first generation will cease and pupation will begin when approximately 500 DD have accumulated after wild grape bloom.	The time for treatment of first generation grape berry moth is over.

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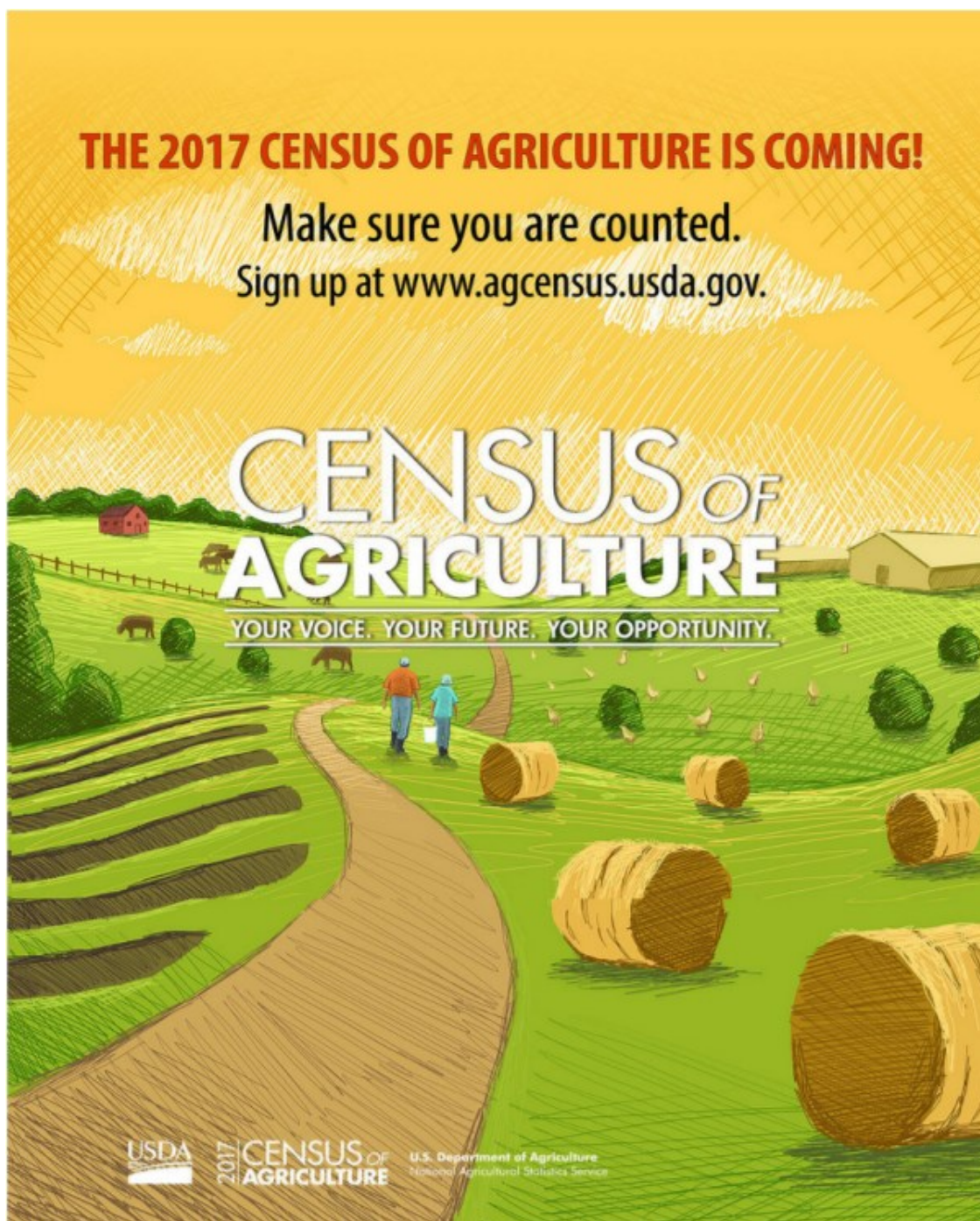
Accuracy of the weather data is the responsibility of the owners of the weather station instruments. NEWA is not responsible for accuracy of the weather data collected by instruments in the network. If you notice erroneous or missing weather data, contact [NEWA](#) and we will contact the owner of the instrument.



Sign Up for the Census of Agriculture by June 30th.

There's still a day or two left to sign up for the Census of Agriculture—the best opportunity and only official tool we have to get a complete count of grape producers in New York State. Information from the Census helps to guide policy decisions and funding for services, and proves invaluable for organizations like CCE.

If you haven't participated in the past, please visit <https://www.agcounts.usda.gov/cgi-bin/counts/> and fill out the brief survey to ensure you receive a Census form. For additional information, you can visit www.agcensus.usda.gov, follow NASS on Twitter @usda_nass, or call (800) 727-9540.





INSURING GRAPES

NY, 2017

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

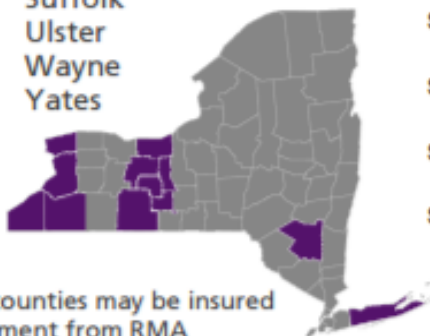
- **Aug. 15, 2017:** Premium Billing Date
- **Nov. 20, 2017:** Sales Closing, Policy Change, Cancellation, Termination Date
- **Nov. 20, 2017:** End of Insurance Period
- **Jan. 15, 2018:** Acreage / Production Report Date



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



for every \$1 grape producers spent on crop insurance premiums from 2012 to 2016, **they received \$2.07** in losses paid, on average

Learn more & sign up:

Explore your personalized crop insurance costs and loss payments under different yield outcomes at ag-analytics.org. To sign up, contact a crop insurance agent. Find an agent using the Agent Locator tool at rma.usda.gov/tools/agent.html



Upcoming Events

Don't forget to check out the calendar on our website (<http://flgp.cce.cornell.edu/events.php>) for more information about these and other events relevant to the Finger Lakes grape industry.



Tailgate Meeting

Wednesday July 5th 4:30 – 6:00 PM (Note the Date Change)

Atwater Estate Vineyards

5055 Route 414

Hector, NY 14841

Our fifth Tailgate Meeting of the year will be held at Atwater Estate Vineyards, on Wednesday July 5th, 2017.

These meetings are held every other week at various grape farms around the Finger Lakes, and are intended to be informal, small-group meetings where FLGP staff and growers can ask questions and discuss issues about vineyard management, IPM strategies or other topics appropriate for that point in the growing season. 0.75 DEC recertification credits will be available.

Public Hearing on Petition for NY Grape Research Order

Wednesday, July 12 10:00 am – 12:00 pm

NYS Agricultural Experiment Station - Jordan Hall

630 W North Street

Geneva, NY

The purpose of this hearing is to determine if a vote should be scheduled among the grape growers of New York State on the establishment of a research order to support research and extension activities that benefit the industry. You can read the petition that requests the establishment of the order, along with the proposed rules for it, at <http://www.agriculture.ny.gov/AP/agsservices/admin.html>. If you did not receive a letter from the Department of Ag & Markets with a form requesting a ballot for the upcoming vote, contact the Marketing Orders Program at (518) 457-4383.

ASEV –Eastern Section Annual Conference

July 10-12, 2017

Charlottesville, VA

Join us for the 42nd American Society of Enology and Viticulture-Eastern Section (ASEV-ES) Conference in Charlottesville, VA on July 10-12, 2017.

On Monday, July 10 there will be a **preconference tour** of Virginia vineyards and wineries. The **conference** will begin with technical/research presentations on Tuesday and Wednesday, July 11-12 and include Tuesday's Oenolympics with Wines of the East Reception and Wednesday's Sparkling Wine Reception and Grand Awards Banquet.

New this Year: Industry Workshop on Wednesday, July 12 to feature invited speakers to discuss “Pioneering Wine Grape Varieties Adapted to the Challenges of the East”.

Further information is available at the [ASEV-Eastern Section website](#). Information on the program and registration costs is available in the [conference registration packet](#), or register for the meeting online at <http://www.asev-es.org/regform1.php>.

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Lake Erie Regional Grape Program Open House

Saturday, August 12, 2017

10:00am - 1:00pm (hayrides on the half hour)

CLEREL (Cornell Lake Erie Research & Extension Laboratory)

6592 West Main Rd.

Portland, NY 14769

Welcomes our neighbors, near and far, to come celebrate 25 years of service with us. We are holding an Open House with hayrides through the vineyards, food and a chance for us to let people know what we do here. This is a FREE event!

Questions? Call Katie at 716-792-2800

2017 Growing Degree Days and Rain Fall

FLX Teaching & Demonstration Vineyard – Dresden, NY					
Date	Hi Temp (F)	Lo Temp (F)	Rain (inches)	Daily GDDs	Total GDDs
6/21/2017	75.4	58.0	0.17	16.7	786.3
6/22/2017	83.5	56.0	0.00	19.8	806.0
6/23/2017	79.5	71.1	0.02	25.3	831.3
6/24/2017	78.6	61.9	0.26	20.3	851.6
6/25/2017	73.9	59.5	0.11	16.7	868.3
6/26/2017	70.6	55.3	0.01	13.0	881.2
6/27/2017	67.1	53.1	0.33	10.1	891.3
Weekly Total			0.90"	121.8	
Season Total			11.37"	891.3	

GDDs as of June 27, 2016: 825.1

Rainfall as of June 27, 2016: 4.61"



Seasonal Comparisons (at Geneva)

Growing Degree Day

	2017 GDD ¹	Long-term Avg GDD ²	Cumulative days ahead (+)/behind (-) ³
April	125.8	64.0	+12
May	219.1	252.7	+3
June	434.8	480.8	+2
July			
August			
September			
October			
TOTAL			

¹ Accumulated GDDs for each month.

² The long-term average (1973-2016) GDD accumulation for that month.

³ Numbers at the end of each month represent where this year's GDD accumulation stands relative to the long-term average. The most recent number represents the current status.

2017 Growing Degree Days and Rain Fall

Precipitation

	2017 Rain ⁴	Long-term Avg Rain ⁵	Monthly deviation from avg ⁶
April	3.42"	2.85"	+0.57"
May	5.35"	3.08"	+2.27"
June	3.81"	3.61"	
July			
August			
September			
October			
TOTAL			

⁴ Monthly rainfall totals up to current date

⁵ Long-term average rainfall for the month (total)

⁶ Monthly deviation from average (calculated at the end of the month)

Additional Information



Become a fan of the [Finger Lakes Grape Program on Facebook](#), or follow us on [Twitter \(@cceflgp\)](#) as well as YouTube. Also check out our website at <http://flgp.cce.cornell.edu>.

Got some grapes to sell? Looking to buy some equipment or bulk wine? List your ad on the [NY Grape & Wine Classifieds website](#) today!

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