



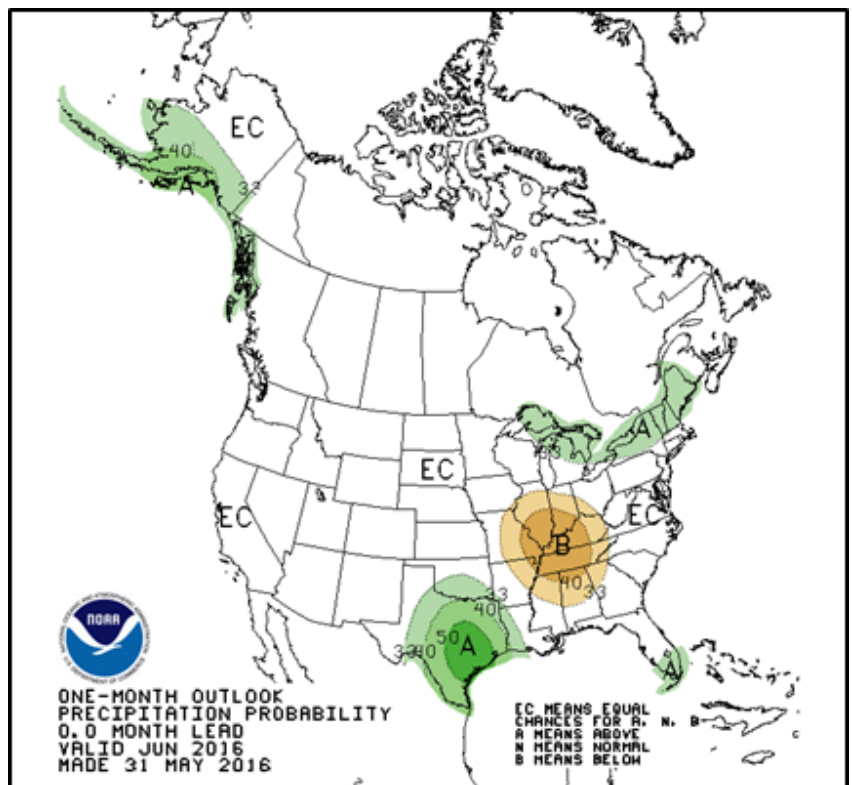
# Finger Lakes Vineyard Update

## In the Vineyard

Hans Walter-Peterson

What a difference between the end of last week and now. Shoot growth advanced rapidly in many vineyards over the past several days. Early varieties like Concord and Baco are generally around 10-12" of growth now, and a number of hybrids and vinifera blocks are close to that same stage. The warm temperatures also got started wild grape bloom busting out in the Finger Lakes over the weekend. This is about 5 days later than last year, but almost exactly the same timing as in 2014, when we also had a cooler than normal start to the season. The heat that came in at the end of last week helped to get us caught up with the average heat accumulation for the first two months of the season, after being behind by up to two weeks earlier in May.

Rainfall was well below our average for the month as well this year. We usually get about 3.1" of rain in May (at Geneva), and ended up with only about 1.6" last month. The dry weather is generally welcome because it generally means less disease development early in the season, which can have a major impact on how the rest of the season goes. Fortunately, the amount of transpiration (water use) by the vines is still relatively low because of the small size of the canopy, but it's obviously increasing quickly. The current outlook for the month from the Climate Prediction Center (<http://www.cpc.ncep.noaa.gov/>) says that there is a better than 50% chance of having a wetter than normal June. While the vines will be needing more rain than we've been having so far as the canopies grow, we also don't want to be seeing a lot of rain come bloom time either. As always, keep watching the skies.



Source: [http://www.cpc.ncep.noaa.gov/products/predictions/long\\_range/lead14/off15\\_prpc.gif](http://www.cpc.ncep.noaa.gov/products/predictions/long_range/lead14/off15_prpc.gif)

# Finger Lakes Vineyard Update

Finger Lakes Grape Program

June 2, 2016

## IPM

Hans Walter-Peterson

We are seeing wild grapes starting to bloom in tree lines near vineyards this week. In addition to being an early indicator that bloom is approaching in cultivated varieties, the date of wild grape bloom is important to note for the purposes of the grape berry moth model. The date of wild grape bloom is used as the biofix date when we begin counting growing degree days for the model.



Photo: Mike Colizzi

If you look at the berry moth model on the NEWA website (<http://newa.cornell.edu/index.php?page=grape-diseases>), the site has already selected a 'default' date for wild grape bloom. In the case of the Teaching Vineyard, it uses Sunday, May 30 as the

### NEWA Grape Forecast Models

Select a disease or insect:  
Grape Berry Moth

State:  
New York

Weather station:  
Dresden (FLGP/FLCC)

Date of Interest:  
6/1/2016

Calculate

MapResultsMore info

Grape Berry Moth Results for Dresden (FLGP/FLCC)

Wild Grape Bloom: 5/30/2016

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 6/1/2016: 55 (0 days missing)

Daily Degree Days for Dresden (FLGP/FLCC)

Base Temp	Past	Past	Current	5-Day Forecast			Forecast Details	
	May 30	May 31	Jun 1	Jun 2	Jun 3	Jun 4	Jun 5	Jun 6
47.14F - GBM	26	22	19	24	20	18	19	17
Accumulation	26	48	67	91	112	129	148	165

NA - not available

Download Time: 6/1/2016 13:00

Shoot development is at the point now where symptoms of a couple of minor insect pests can be found in certain spots. We are starting to see a few [banded grape bug](#) nymphs crawling around on clusters and leaves. The nymphs are generally active from late May through bloom, feeding on all parts of the clusters (flowers, stems). It is possible for relatively low numbers of nymphs to cause enough damage that intervention may be worthwhile. Examine about 100 shoots throughout the vineyard block, particularly around edges. Economic damage is possible at numbers as low as 1 nymph per 10 shoots. Tim Weigle with the IPM program has a good video on how to scout for banded grape bug, which can be seen at [https://www.youtube.com/watch?v=IM\\_HonIywXg](https://www.youtube.com/watch?v=IM_HonIywXg). Around bloom, the nymphs transform into adults, and no longer feed on grapes.

## IPM (continued from page 2)

Hans Walter-Peterson



This is also the time when we see some activity from plume moth. Larvae hatch from overwintering eggs in the spring and feed on young tissues, wrapping themselves in a webbed “pocket” that they form from leaves. Feeding on leaves generally is not significantly damaging, but if the shoot tip or a cluster is enclosed in that pocket, that is when economic damage can arise. It is rare to see enough of these in any given year or location to treat. Greg Loeb suggests 20% of shoots with plume moth larvae as a potential threshold for action, but again, it is rare to see populations of this pest that high.

## Diseases

We finished May with just over half of our normal rainfall for the month (1.66” this year vs. 3.11” on average), which has certainly been helpful at keeping early phomopsis infections tamped down to some extent. However, the rapid shoot growth that we had over the past several days has resulted in more tissues that are not protected by sprays that may have been applied even just a week earlier. The materials that are typically used at this time of year, like mancozeb, dithane, and sulfur, are not systemic materials – in other words, they don’t move into the tissues and get distributed to other parts of the plant. So leaves, shoots and clusters that have emerged since a previous spray are not protected from new infections. In addition, the hard rains that hit several parts of the Finger Lakes on Sunday (mostly more northern locations) also provided an opportunity for new infections to get established on some of these newer tissues.

In spite of the dry weather, it is still possible to find phomopsis and even a few black rot lesions here and there. Keep scouting, and keep watching the weather and disease development models (<http://newa.cornell.edu/index.php?page=grape-diseases>) for your best cues as to when to schedule sprays.



## Welcome Corrigan!

*Gillian Trimmer*

We're happy to have Corrigan Herbert, the 2016 Shaulis Scholar, joining us on the Finger Lakes Grape Program team this summer! As a recipient of the Nelson J. Shaulis Scholarship, Corrigan will be spending the growing season managing a research project of her choosing or design, as well as working alongside our Cornell Cooperative Extension team and many of the viticulture researchers at the Agricultural Experiment Station in Geneva. She has just completed her first year in the Viticulture and Wine Technology program at Finger Lakes Community College, and showed up for her first week of work armed with sturdy work boots and plenty of insightful questions. You'll very likely see her out in area vineyards with Hans or me, or joining in on the conversations at Tailgate Meetings over the next few months. Please stop and say hello if you get the chance!





## Interested in trying Palissage?

*Justine Vanden Heuvel*

Palissage is a canopy management alternative to hedging that is practiced in some vineyards in Alsace and Burgundy. We are looking for a few growers who are interested in trying palissage in their vineyards. There are two methods of palissage: shoot wrapping and shoot tucking. Palissage is more time consuming than hedging, but our data indicate that it reduces lateral emergence. Other potential benefits may include reduced vine size, reduced cluster density, and improved botrytis control. Please contact Justine Vanden Heuvel ([jev32@cornell.edu](mailto:jev32@cornell.edu)) if you'd be willing to compare palissage to hedging this season and record your observations.



**Shoot wrapping**



**Shoot tucking**

**Photos: Amanda Gardner, LIHREC**

## 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 #4

Tuesday, June 7 4:30 – 6:00 PM  
Heron Hill Winery  
9301 County Road 76  
Hammondsport, NY 14840 ([click here to see a map](#))

Our third Tailgate Meeting of the year will be held at Gene Stanbro's farm near Naples on Tuesday, May 24.

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.

Dates and locations for the rest of this year's Tailgate Meetings can be found under the 'Events' section of our website.

### Tailgate Meeting #5

Tuesday, June 21 4:30 – 6:00 PM  
Chateau Lafayette Reneau  
5081 Route 414  
Hector, NY 14841 ([click here to see a map](#))

### Hops Production in the Lake Erie Region

June 11, 2016 9:00 AM – 4:00 PM  
Cornell Lake Erie Research & Extension Lab  
6592 West Main Road  
Portland, NY 14769

This workshop is designed to provide some background information related to hops production as well as tackling some of the techniques that will help you to become profitable with your hops production. Topics include choosing the right plants, site selection, trellis layout and nutrition. Also covered will be how to work with a brewery to give them the hops they are looking for, and in what form. There will be in-field opportunities to interact with speakers in the CLEREL hopyards.

To register, or for more information, please visit <http://lergp.cce.cornell.edu/event.php?id=252>.

## Upcoming Events

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### **American Society for Enology & Viticulture – Eastern Section Annual Conference**

*July 18-21, 2016*

*Magnolia Hotel*

*St. Louis, MO*

Join us for the 41st American Society of Enology and Viticulture-Eastern Section (ASEV-ES) Conference and Symposium. The meeting will be in St. Louis, Missouri in July 18-21, 2016, more information coming soon. The tentative schedule for the conference and symposium is a tour of vineyards and wineries on Monday, July 18, conference sessions on Tuesday and Wednesday, July 19-20 and a symposium on Thursday, July 21.

## 2016 Growing Degree Days and Rainfall

FLX Teaching & Demonstration Vineyard – Dresden, NY					
Date	Hi Temp (F)	Lo Temp (F)	Rain (inches)	Daily GDDs	Total GDDs
5/25/16	87.0	60.0	0.00	23.5	198.2
5/26/16	84.0	61.0	0.00	22.5	220.7
5/27/16	89.0	66.0	0.00	27.5	248.2
5/28/16	91.0	64.0	0.00	27.5	275.7
5/29/16	86.0	64.0	1.16	25.0	300.7
5/30/16	82.0	61.0	0.00	21.5	322.2
5/31/16	80.0	59.0	0.00	19.5	341.7
Weekly Total			<b>1.16"</b>	<b>167.0</b>	
Season Total			<b>4.07"</b>	<b>341.7</b>	
Season Total			<b>4.07"</b>	<b>341.7</b>	

GDDs as of May 31, 2015: 510.4

Rainfall as of May 31, 2015: 6.67"





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June 2, 2016

## Seasonal Comparisons (at Geneva)

### Growing Degree Days

	2016 GDD <sup>1</sup>	Long-term Avg GDD <sup>2</sup>	Cumulative days ahead (+)/behind (-) <sup>3</sup>
April	36.1	65.2	-9
May	270.1	252.3	0
June		480.6	
July		639.8	
August		588.2	
September		351.0	
October		105.2	
TOTAL	306.2	2481.8	

1 Accumulated GDD's for the Month

2 The long-term average (1973-2014) 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.

### Precipitation

	2016 Rain <sup>4</sup>	Long-term Avg Rain <sup>5</sup>	Monthly deviation from avg <sup>6</sup>
April	1.17"	2.89"	-1.72"
May	1.66"	3.11"	-1.45"
June		3.68"	
July		3.42"	
August		3.15"	
September		3.64	
October		3.22	
TOTAL	2.83"	23.12"	

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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### FINGER LAKES VINEYARD UPDATE

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