

Finger Lakes Vineyard Update

In the Vineyard

Hans Walter-Peterson

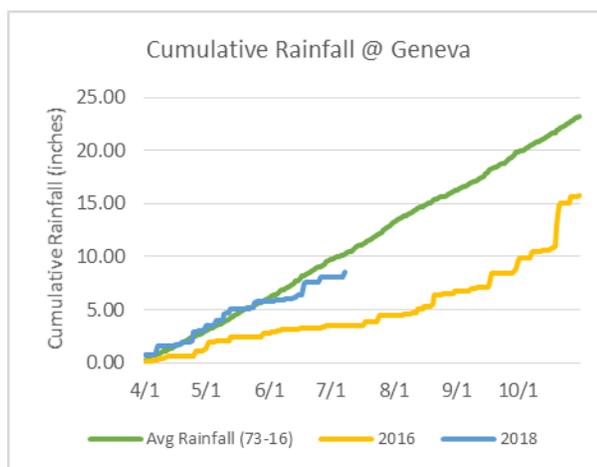
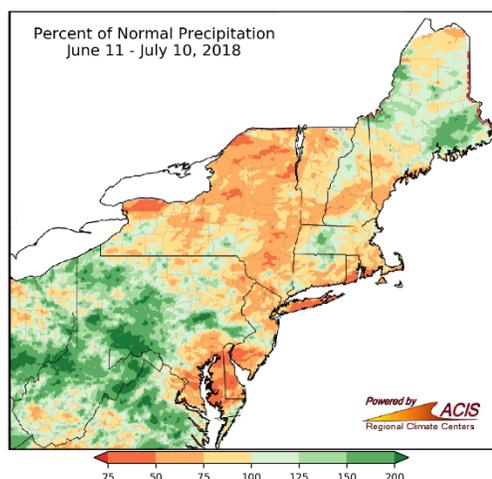
In the Vineyard

Most of the Finger Lakes got its first taste of any measurable rain in a few weeks yesterday, but the amounts varied significantly depending on where you look. Totals ranged anywhere between 0.15 – 1” depending on location, but weather stations in Wayne County recorded less than 0.1” from the storm, if anything at all.

In This Issue:

In the Vineyard	pg. 1
Ag. Housing	pg. 4
Events	pg. 5
GDD	pg. 6

Weather Station	July 16-17 Rain	July Total rain
Branchport	0.39”	0.79”
Dresden (FLX TDV)	0.83”	1.01”
South Bristol	0.99”	1.21”
Lodi (Lamoreaux)	0.17”	1.36”
Hammondsport	0.32”	0.91”
Williamson (Bear Swamp)	0.00”	0.03”



Even with the rain this week, the ground is still pretty dry in a lot of places. We are starting to see some early signs of drought stress showing up in young vines and vineyards on shallow soils, including tendrils losing turgor or senescing, and leaves starting to heat up because they are unable to keep their internal cooling system (driven by water transpiring out the stomates) up with the temperatures. Vines on deeper soils with good water holding capacity, on the other hand, seem to be quite healthy and not showing outward signs of stress at this point. While it's been dry over the past couple of months, we are well ahead of where we were with rainfall at this time in 2016 (see graph).

In the Vineyard (continued from page 1)

Some of the symptoms of water stress are pretty obvious – e.g., basal leaves turning yellow or necrotic – but these tend to show up when the vines are under more severe stress. Earlier signs of drought stress to watch out for include:



Drying shoot tip on Concord vine.

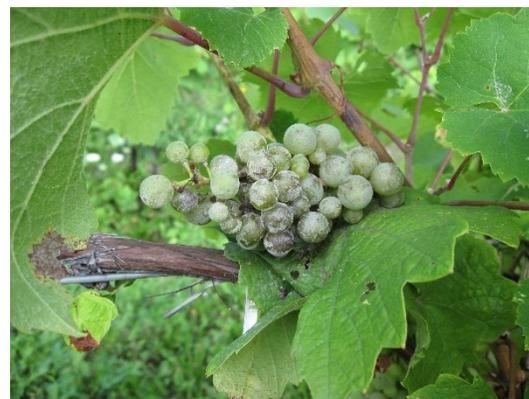
- Tendrils turning brown, drying up and falling from the vine,
- Shoot tips no longer functional, and eventually drying up and senescing,
- Leaves altering their orientation to the sun to reduce direct exposure and therefore higher temperatures

Sufficient water stress during the period between fruit set and veraison will also result in smaller berries because of the reduction of the rate of cell division in the vine. If the dry conditions continue this season, growers should be anticipating that this will impact final yields to some extent.

IPM

I have been seeing some powdery mildew infections showing up on leaves and a few clusters during a few stops this week. The cluster infections were likely established just after fruit set when the young berries are still susceptible to infections. By this time, berries are mostly resistant to new PM infections so if new ones are appearing now, the initial infection likely took place a few weeks ago. Unlike downy and black rot, powdery mildew is capable of spreading quite easily without the presence of free water on tissue.

Dry conditions continue to help keep downy mildew and black rot from becoming too problematic in most situations so far, although we are seeing some foliar infections of DM here and there.



The most noticeable pest in most vineyards right now is *Japanese beetles*, whose numbers seem to have swelled somewhat over the past week or two. To this point, I have not noticed damage to the extent that a spray would be justified, but care should be taken with young vines with limited leaves on them, especially those in grow tubes which provide excellent shelter for the beetles from predators and pesky grape growers.

In the Vineyard (continued from page 2)

Grape Berry Moth

We are currently in the period between egg laying of the second and third generation of GBM, when larvae are feeding inside the berries. Making a spray application now will have very little impact on populations in any vineyards. The next application should be made when the GBM model indicates that we are approaching 1620 degree days since the biofix date. Based on our current status with degree days, that window is still at least a couple of weeks off.

Weather Station	GBM model degree days (default biofix date)
Branchport	1082 (May 30)
Dresden (FLX TDV)	1163 (May 29)
Hammondsport	1051 (May 30)
Lodi (Lamoreaux)	1152 (May 28)
South Bristol	1084 (May 29)
Williamson (Bear Swamp)	1000 (June 1)

NEWA Grape Forecast Models

Select a disease or insect:
Grape Berry Moth
Map
Results
More info

State:
New York

Weather station:
Dresden (FLX TDV)

Date of Interest:
7/18/2018

[Calculate](#)

Grape Berry Moth Results for Dresden (FLX TDV)

Wild Grape Bloom: 5/29/2018

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 7/18/2018: 1154 (0 days missing)

Daily Degree Days for Dresden (FLX TDV)									
Base Temp	Past	Past	Current	5-Day Forecast					Forecast Details
	Jul 16	Jul 17	Jul 18	Jul 19	Jul 20	Jul 21	Jul 22	Jul 23	
47.14F - GBM	32	27	21	21	27	28	25	27	
Accumulation	1115	1142	1163	1183	1210	1239	1263	1290	

NA - not available Download Time: 7/18/2018

Pest Status	Pest Management
Second generation larvae are protected within berries and completing their development.	The most effective time for treatment of second generation grape berry moth is over. Prepare to scout all vineyard blocks for grape berry moth damage when DD accumulation reaches 1470-1620 DD. During scouting, determine if the number of damaged clusters from previous generation exceeds the treatment threshold of

Worker Housing “Orientation Guide” in Spanish

By Richard Stup, Cornell Agricultural Workforce Development Program



Housing is a valuable benefit that many farmers provide for employees. In many cases, employees take good care of the housing and the farmer-landlord provides any repairs or updates on a timely basis. Unfortunately, that's not always the case. There are other situations where the housing provided is really not adequate to begin with or the employees or the farmer-landlord doesn't hold up their responsibilities for cleaning and maintenance of the facility. In many of these situations, a lack of knowledge about housing, poor training, and weak communications combine to make the situation worse. Members of the Agricultural Workforce Development Coalition worked together to develop housing management resources which you can find on the [Cornell Agricultural Workforce Development](#) website, including some Spanish-language material.

The [Orientation Guide for Occupants of Farm Housing](#) is designed to help managers and housing occupants better learn and communicate about using and maintaining systems commonly found in farm-provided housing. I am super-pleased to announce that we now have the [Orientation Guide in Spanish!](#)

Check out all of our housing resources on the [Worker Housing](#) page. This post appeared first on the [Cornell Agricultural Workforce Development website](#).

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 #6

Tuesday, July 24, 2018

4:30 – 6:00 PM

Smith Brothers Farm

9404 Ridge Rd., North Rose NY 14516

Our sixth Tailgate Meeting of the season will be held at Smith Brothers Farm in North Rose, Wayne County. Pesticide credits have been approved for each Tailgate Meeting this season. No registration required – just bring a chair and your questions and observations about what's going on in the vineyard.

Tailgate Meeting #7

Tuesday, August 7, 2018

4:30 – 6:00 PM

Hobbs-Selbach Vineyard

Lollis Drive, Burdett NY 14818 ([click here for a map of the location](#))

Finger Lakes Vineyard Update

2018 GDD & Precipitation

FLX Teaching & Demonstration Vineyard – Dresden, NY					
Date	Hi Temp (F)	Lo Temp (F)	Rain (inches)	Daily GDDs	Total GDDs
7/11/2018	76.0	61.0	0.00	18.5	1230.1
7/12/2018	84.0	56.3	0.00	20.2	1250.2
7/13/2018	88.7	60.7	0.00	24.7	1274.9
7/14/2018	90.7	71.4	0.00	31.1	1306.0
7/15/2018	86.7	67.1	0.00	26.9	1332.9
7/16/2018	93.9	68.8	0.14	31.4	1364.2
7/17/2018	81.9	67.7	0.69	24.8	1389.0
Weekly Total			0.83"	177.5	
Season Total			8.41"	1389.0	

GDDs as of July 17, 2017: 1330.0

Rainfall as of July 17, 2017: 15.41"



Seasonal Comparisons (at Geneva) as of July 17

Growing Degree Day

	2018 GDD ¹	Long-term Avg GDD ²	Cumulative days ahead (+)/behind (-)
April	8.2	65.4	
May	416.3	251.9	
June	472.3	481.1	
July	417.1	345.5	
August			
September			
October			
TOTAL	1313.9	1144.0	+8

¹ Accumulated GDDs for each month.

² The long-term average (1973-2017) GDD accumulation as of that date in the 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.

2018 GDD & Precipitation (continued from page 10)

Precipitation

	2018 Rain ⁴	Long-term Avg Rain ⁵	Monthly deviation from avg ⁶
April	1.92"	2.87"	-0.93"
May	3.15"	3.13"	+0.02"
June	2.50"	3.62"	-1.12"
July	0.98"	3.45"	
August		3.14"	
September		3.57"	
October		3.37"	
TOTAL	8.55"	23.16"	

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!

Finger Lakes Grape Program Advisory Committee

Eric Amberg- Grafted Grapevine Nursery

Bill Dalrymple- Dalrymple Farm

Matt Doyle- Doyle Vineyard Management

Eileen Farnan- Barrington Cellars

Chris Gerling- Cornell University Extension

Mel Goldman- Keuka Lake Vineyards

Luke Haggerty- Constellation Brands

Tina Hazlitt- Sawmill Creek Vineyards

Cameron Hosmer- Hosmer Winery

Harry Humphreys- Overlook Farms

Richard Jerome- Jerome's U-Pick

Gregg McConnell- Farm Credit East

Herm Young- Young Sommer Winery

John Santos- Hazlitt 1852 Vineyards

Dave Smith- Smith Brothers Farms

Justine Vanden Heuvel- Cornell University

Derek Wilber- Swedish Hill Winery

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Cornell Cooperative Extension Finger Lakes Grape Program

Hans Walter-Peterson—Team Leader

Donald Caldwell—Viticulture Technician

The Finger Lakes Grape Program is supported, in part, by six county
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