

Cornell Cooperative Extension Finger Lakes Grape Program



July 7th, 2021

Finger Lakes Vineyard Update

In the Vineyard

I spent much of my day before the Tailgate meeting yesterday getting caught up with how things are looking in the vineyards after a couple of weeks away, and the main thing that caught my eye is how well fruit set appeared to be in those places where I stopped, including the Keuka Bluff, and vineyards on both sides of Seneca Lake. Berries are starting to size up too, with Concords and other natives already close to marble-size, while many of the hybrid and *vinifera* varieties were around pea-sized. In areas where set was especially good, clusters are already close to the bunch closure phase. More berries per cluster certainly mean higher yields for growers, but it can also mean greater potential for splitting and other physical damage that can lead to bunch rot problems if the weather conditions are right (see the IPM section for more on this).

The amount of rain that has fallen over the past week or so in the Finger Lakes has varies a lot depending on where you are (see table below). Most of the rain events recently have been isolated to particular areas, rather than large region-wide rains. Rainfall totals for the previous week, as reported by weather stations on NEWA, have ranged from about 0.5" to over 2.5". So depending on where you are, the water status of your vineyard soils might be quite different.

Location	Rainfall (June 29-July 7)
Branchport	2.62"
Dresden	2.26"
Dundee	2.54"
Geneva	1.83"
Hammondsport	1.02"
Lodi	2.10"
South Bristol	1.29"
Williamson	0.51"

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In the Vineyard (continued from pg. 1)

Biochar Survey

The following message is from a master's student at the University of Albany who is doing her research on the use of biochar as an agricultural soil amendment. If you are interested in participating, read on.

My name is Cara Sherman, and I am an MS student at the University at Albany in the Biodiversity, Conservation, and Policy program. I am writing my thesis on the prospects of using biochar as a soil amendment on farms in New York State. I have created the following survey to get your input on this topic as a farmer in New York.

The survey should take no longer than 15-20 minutes. Most of the questions are multiple choice, with some requiring a few sentences for clarification. The survey will be anonymous, and the results will only be used in my thesis. You will be contacted only once to take the initial survey; there will be no follow up surveys or interviews in the future. Unfortunately, no compensation can be provided, so your response is greatly appreciated!

Here is the survey link:

https://albany.az1.qualtrics.com/jfe/form/SV_d1pTG6uwZa9qk86

For questions about the survey, please contact Cara Sherman, cdsherman@albany.edu

IPM (continued from pg. 1)

Even with “fungus friendly” weather over the past few weeks, most vineyards have relatively little in the way of visible disease symptoms. Downy mildew continues to make its presence known in a few places, but for the most part seems to be kept in check to this point. I have written fairly extensively in past Updates about different materials for DM and considerations in how to choose which ones to use when, so I won’t repeat myself this week. You can go back and read them [on our website](#), or do a quick review of [Katie Gold’s newsletter from a couple of months ago](#).

Based on observations in the field and from conversations with growers, it sounds like clusters in many vineyards will have higher berry numbers this year with fruit set having gone well. In these cases, clusters will reach ‘bunch closure’ stage sooner than they might otherwise. This means there is a smaller window to apply a Botrytis spray that has a chance to penetrate to the interior of the clusters and prevent any infections that may get started on the rachis or ‘trash’ left over from bloom. These latent infections will manifest themselves later in the season when small cracks or splits start to form, primarily in tight clustered varieties like Riesling, Vignoles, Pinot noir/gris/blanc, etc.

Botrytis Materials in NY (info from 2021 NY/PA Grape IPM Guidelines and 2021 Grape Disease Control newsletter by Katie Gold)

Product	FRAC Group*	Effectiveness	Comments
Rovral/Meteor	2	excellent	Limit to 1x/year to avoid resistance development.
Endura	7	excellent	8 oz/acre for Botrytis; limit Group 7 products to 2x/year.
Pristine	7	excellent	12-19 oz/acre for Botrytis control; limit Group 7 products to 2x/year.
Luna Experience	7	good	8.0-8.6 oz/acre for Botrytis control; limit Group 7 products to 2x/year.
Luna Sensation	7	excellent	7 oz/acre for Botrytis control; limit Group 7 products to 2x/year.
Miravis Prime	7	good	10.3-13.4 oz/acre for Botrytis control; limit Group 7 products to 2x/year.
Vanguard	9	excellent	10 oz/acre; Limit Group 9 products to 2x/year
Inspire Super	9	good	20 oz/acre of Inspire Super contains the equivalent of 7 oz/acre of Vanguard (70% of full rate); limit Group 9 products to 2x/year
Switch	9	excellent	14 oz/acre of Switch contains the equivalent of 6.8 oz/acre of Vanguard (68% of full rate); limit Group 9 products to 2x/year.
Scala	9	excellent	Limit Group 9 products to 2x/year
Intuity	11	good	6 oz/acre, maximum of 18 oz/season.
Flint Extra	11	excellent	3.8 oz/acre for Botrytis control
Elevate	17	excellent	1 lb/acre; 0-day PHI
Double Nickel	44	moderate	Biopesticide (<i>Bacillus amyloliquefaciens</i> D747); do not mix with antimicrobial material like Oxidate. 0-day PHI
ProBlad Verde	BM01	moderate to good	Biopesticide, formerly sold as Fracture. 18.1-45.7 fl oz/acre; 1-day PHI.
Botector	NA	moderate to good	Biopesticide; organisms can be killed by some synthetic fungicides. 8 oz in 50-100 gal H ₂ O/acre. 0-day PHI.

Eastern Viticulture and Enology Forum

Grower and Winemaker Town Hall: Questions From the Field and Cellar

In collaboration with viticulture and enology extension programs at: Ohio State University, University of Maryland, Rutgers University, North Carolina State University, University of Georgia, University of Tennessee, Mississippi State University, Texas Tech, Texas A&M, Colorado State University, New Mexico State University, University of Nebraska, Iowa State University, Purdue University, University of Minnesota, Michigan State University, and University of Wisconsin

Regional viticulture and enology specialists will present a Grower and Winemaker Town Hall virtual meeting series to give seasonal updates and answer pre-submitted and live questions from grape and wine industry stakeholders.

The structure of these meetings depends on pre-submitted questions. Use this [link to pre-submit questions](#) for viticulture and enology specialists to answer live during the meeting. *Please feel free to submit questions related to any topic by July 6th*. But please see below for the topic area suggestions for the July 13th meeting.

*Viticulture focus area: **post-fruit set to veraison*** (crop load management, canopy management, pest management, nutrient management, mechanization of vineyard operations)

*Enology focus area: **primary fermentation*** (harvest decisions, fruit chemistry analysis, and fermentation options, e.g. non-Saccharomyces yeast, strain selection, ambient ferments)

There will be a total of four town hall meetings throughout the growing season. Meetings will be held from 3PM to 5PM on the following Tuesdays: July 13th, August 10th, and September 7th. The first two meetings will be hosted by Cornell University and the second two meetings will be hosted by Penn State Extension.

Register using this [link](#) and choose your breakout room (viticulture or enology) for the July 13th meeting. After registering, you will receive a confirmation email containing information about joining the meeting.

-[Cain Hickey](#), [Beth Chang](#), and [Tim Martinson](#)
Eastern Viticulture and Enology Forum Hosts

Upcoming

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.



Eastern Viticulture & Enology Forum: Grower & Winemaker Town Hall

July 13, 2021 3:00 – 5:00 PM

See announcement in this week's Vineyard Update

FLGP Virtual Tailgate Meeting

Tuesday, July 20 4:30 – 6:00 PM

Via Zoom

Registration link: <https://cornell.zoom.us/meeting/register/tJwrceqprzksHNXJTbu-5ViDvfB9E0hcUObf>

Our next virtual Tailgate Meetings will be held on Tuesday, July 20. As always, the agenda for these meetings is very loose, so please come with your questions, observations, opinions about what's going on in the vineyard.

Participants will need to register before attending their first virtual meeting in order to receive the Zoom link. Registration for the online Tailgate Meetings is only required once – the link you receive when you register will work for all four online meetings this year.

The virtual and in-person Tailgate Meetings have been approved for 0.75 pesticide recertification credits. We will also need to receive an image or photocopy of your pesticide license before the first meeting that you attend. These images/copies can be sent to Brittany Griffin at bg393@cornell.edu. More information will be included in your confirmation email.

Upcoming Events (continued from page 5)



DEC Webinars

The New York State DEC is hosting the following two virtual workshops later this month. They might be useful courses for those looking to become certified pesticide applicators. These courses are free (I'm pretty sure, at least).

How to Become a Pesticide Applicator

July 23, 2021 **6:00 p.m.**

A walk through the process of becoming a certified pesticide applicator. Whether you want to do landscaping, structural pest control, or agriculture, learn how to qualify for the exam and start your new career.

[Register now](#)

New York State Pesticide Use and Regulations

July 28, 2021 **6:00 p.m.**

DEC Staff will explain the differences between minimum risk, general, and restricted use pesticides, how to avoid common violations in the field, and how to become certified applicators and register a pest control business.

[Register now](#)

FLGP In-Person Tailgate Meeting

Tuesday, August 3 *4:30 – 6:00 PM*

Kashong Glen Vineyards

1107 Earls Hill Road

Penn Yan, NY

Our next in-person Tailgate Meeting will be held on Tuesday, August 3. These meetings are primarily intended for those who are not able to or prefer not to participate in our virtual Tailgate meetings, but are open to anybody. The agenda for these meetings is very loose, so please come with your questions, observations, opinions about what's going on in the vineyard. The DEC has approved the meeting for 0.75 pesticide recertification credits (Categories 1a, 10, 22).

There is no limit on the number of people who can attend these outdoor meetings, and therefore we are not requiring any pre-registration for them. Those who are fully vaccinated for COVID-19 are not required to wear masks or remain 6' apart during the meeting. Those who are not vaccinated will need to wear a mask and keep physically distant from others.

2021 GDD & Precipitation

FLX Teaching & Demonstration Vineyard – Dresden, NY					
Date	Hi Temp (F)	Lo Temp (F)	Rain (inches)	Daily GDDs	Total GDDs
6/30/21	86.7	70.3	0.03	28.5	1010.6
7/1/21	76.1	65.7	0.02	20.9	1031.5
7/2/21	71.8	59.0	0.27	15.4	1046.9
7/3/21	72.0	60.4	0.24	16.2	1063.1
7/4/21	74.8	57.6	0.00	16.2	1079.3
7/5/21	88.9	59.0	0.00	24.0	1103.2
7/6/21	86.5	73.0	0.08	29.8	1133.0
Weekly Total			0.64"	150.9	
Season Total			8.40"	1133.0	

GDDs as of July 7, 2020: 1018.5

Rainfall as of July 7, 2020: 6.54"



Seasonal Comparisons (at Geneva)

Growing Degree Days

	2021 GDD ¹	Long-term Avg GDD ²	Cumulative days ahead (+)/behind (-) ³
April	72.0	62.7	+2
May	256.6	254.6	+1
June	608.9	481.5	+7
July	115.9	646.4	+7
August		593.2	
September		358.7	
October		109.9	
TOTAL	1053.4	2507.1	

¹ Accumulated GDDs for each month.

² The long-term average (1973-2019) 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

	2021 Rain ⁴	Long-term Avg Rain ₅	Monthly deviation from avg ⁶
April	2.34"	2.83"	-0.49"
May	1.86"	3.12"	-1.26"
June	2.23"	3.55"	-1.32"
July	.94"	3.43"	
August		3.20"	
September		3.49"	
October		3.40"	
TOTAL	7.37"	22.89"	

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

Luke Haggerty- E & J Gallo

Tina Hazlitt- Sawmill Creek Vineyards

Cameron Hosmer- Hosmer Winery

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Herm Young– Young Sommer Winery

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Cornell Cooperative Extension Finger Lakes Grape Program

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The Finger Lakes Grape Program is a partnership between Cornell University and the Cornell Cooperative Extension Associations in Ontario, Seneca, Schuyler, Steuben, Wayne and Yates Counties.

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