



Cornell Cooperative Extension Finger Lakes Grape Program

June 29, 2023

Finger Lakes Vineyard Update

In the Vineyard

Hans will be on vacation from June 28 – July 10, so there will be no Vineyard Update newsletter next week. If you need assistance while he's gone, you can contact Don Caldwell at dc886@cornell.edu or 315-759-1069.

In the Vineyard

Vineyards are still at various stages of bloom and fruit set this week. After a very early kickoff to the season in April with budbreak anywhere from one to three weeks earlier than normal, a cool May and early June slowed things down significantly. Below are some data compiled by Don Caldwell about bloom dates and the days between budbreak and bloom over the past 5 years, compared to those for 2023.

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	2018	2019	2020	2021	2022	Average 2018	2023
Riesling	6/14	6/25	6/19	6/11	6/13	6/17	6/19
Chardonnay	6/9	6/22	6/15	6/9	6/8	6/13	6/17
Cab Franc	6/14	6/22	6/18	6/11	6/10	6/16	6/19
Cayuga	6/12	6/23	6/17	6/12	6/9	6/15	6/17
Marquette	6/4	6/18	6/11	6/4	6/1	6/7	6/7

Bloom dates at FLGP's Teaching & Demonstration Vineyard near Dresden, NY

	2018	2019	2020	2021	2022	Average	2023
Riesling	35	42	33	37	31	35.6	54
Chardonnay	34	45	31	40	29	35.8	58
Cab Franc	36	43	32	40	29	36.0	53
Cayuga	31	40	29	39	31	34.0	48
Marquette	30	44	35	37	30	35.2	55

Days between budbreak and bloom at the Teaching & Demonstration Vineyard

The chance that we could possibly have an early harvest this year due to an early budbreak is less likely at this point. An earlier ripening period would mean that later maturing clusters from non-count or secondary shoots would have a little more time to catch up to those from primary shoots. We know that the number of days between bloom and veraison is less correlated with growing degree days than the period between budbreak and bloom, so if our bloom dates are around average, then chances are that veraison will arrive around its average time as well.

And now...hail

We've heard that a few areas around Keuka Lake (e.g., Branchport, Hammondsport) had hail within some of the storm cells as they moved through the region yesterday. I have not heard about any damage to vineyards at this point, but growers who think they might have received any damage should be sure to contact their crop insurance agent as soon as possible.

IPM

The rain that fell Saturday and Monday (~1.2" at our vineyard near Dresden) may have kicked some new downy and black rot infections into gear. This is a critical time for disease control (obviously), so be sure to be paying attention to important factors like coverage, proper rates, and appropriate windows between sprays given the weather conditions. Foliage looked clean in the vineyards that I stopped in last week, but as berries begin to form they are highly vulnerable to infection. Be sure that canopies aren't so dense that spray materials can't reach the clusters. This will be especially difficult in areas where suckers from trunks are rapidly growing in the head region of the vine, where they can often hide the clusters on the primary shoots in that same area.

Phomopsis control

By the time we get through bloom, the focus of disease management usually turns away from Phomopsis because it has usually "run its course" each spring. But when we have an early dry spell, as we did up until about 2 weeks ago, there may still be phomopsis inoculum present that could infect after bloom and fruit set. Bryan Hed from Penn State wrote a nice summary about this in last week's Crop Update newsletter from the LERGP, which I've included below.



"If we get rain over the next few days, I want to remind everyone that Phomopsis is still a threat. With normal amounts of spring rainfall, the overwintering inoculum of this pathogen gets 'milked out' by about the time berries reach pea size. Therefore, in a typical year, we stop worrying about Phomopsis at about mid-summer. No infective spores = no disease, even if the host (grapevine) is still susceptible, and the weather is wet. That said, low amounts of accumulated rainfall this spring has left Phomopsis spore sources (wood infected in previous years) with more unspent inoculum than usual. Be sure to mix your powdery mildew material with Ziram (for juice grapes), captan (wine grapes only) or mancozeb (wine grapes only), the next time around. This is especially important if conditions turn wet and stay wet into July." Some of the sterol inhibitors claim Phomopsis control on their labels. However, I have seen little data to show that these are effective Phomopsis fungicides. They're great against black rot, and the newer ones (like difenoconazole in the "Top" products, and Cevya) are effective against powdery mildew, but our limited testing of this fungicide class against Phomopsis has not looked promising. At this point, I cannot recommend any of the FRAC 3s (sterol inhibitors) for Phomopsis control. Stick with the ziram, mancozeb, or captan products for Phomopsis."

Grape Berry Moth model – June 27, 2023

We currently stand at about 540 GDDs (base 47.14°F) at the Teaching Vineyard according to the [GBM model on NEWA](#) (one of the warmer locations in the Finger Lakes, so we are still several days away from the first window for control of GBM in areas where scouting indicates the need for an insecticide application. Based on the forecasted temperatures, the model says we will still only be at about 660 GDDs as of July 2, so control measures in vineyard that may need them are still likely more than a week away.

Potato Leafhopper

In the meantime, potato leafhoppers continued to show up in vineyard this week, and I expect a few more might have landed here after riding the storms that rolled through the region yesterday, which brought up lots of moisture from the south. As I mentioned last week, in most years PLH is just a nuisance, but is capable of causing enough injury in some vines to impact ripening and plant health. Something to keep an eye out for over the next couple of weeks.

Farmers: What's in your weed seedbank?

Bryan Brown, NYS IPM Weed Scientist

We have funding to analyze weed seedbanks of 50 farms in this region. As a participant, you would get:

- a weed seedbank density and composition analysis of one field at your farm
- photos of identifying characteristics of each species
- a tailored weed management plan that addresses your seedbank based on your current equipment and crop selection
- a bar graph depicting the seedbank density of your farm compared to the other anonymous participating farms
- soil nutrient test results from the sample we collect, and
- a one-time participation payment of \$550

All we need from you is:

- One half-gallon of your soil in 2023
- some information about your crop/weed management,
- an hour of your time in 2025 to discuss the results, and
- 5 minutes for a phone evaluation.



Indicate your interest in participating as soon as possible by emailing Bryan Brown at bjb342@cornell.edu or leaving a message at 315-787-2432. We're hoping to select a wide range of farms and locations, so **please tell us a bit about your farm**. We'll select participants by July 1. There will be a couple forms to fill out, but we'll try to make it as easy as possible for you.

SARE Project: *Elevating weed seedbank management with tailored recommendations and new tactics*

Project leaders: Bryan Brown (NYSIPM), Sam Anderson (Harvest NY), Toni DiTommaso (Cornell), Lori Koenick (Cornell Vegetable Program), and Lynn Sosnoskie (Cornell).

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

July 11, 2023 4:30 – 6:00 PM

Young Summer Winery

4287 Jersey Rd, Williamson, NY

Our next Tailgate Meeting will be on Tuesday, July 11 at Young Summer Winery in Williamson. These meetings are a time for growers and the FLGP staff to discuss what's going on in the vineyards, ask questions, and learn from each other. There is no set agenda for the most part, so bring questions, observations, thoughts, etc. and let's talk about them. Each meeting has been approved for 1.25 pesticide recertification credits by DEC.

Here is the schedule for Tailgate Meetings for the rest of 2023:

- July 25, 2023: Gage Vineyards
6104 Hicks Road, Naples NY
- August 8, 2023: Tango Oaks Vineyard
5557 NY Route 414, Hector, NY
- August 22, 2023: Fox Run Vineyards
670 Route 14, Penn Yan, NY

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Effects of Viticultural Mechanization on Working Time Requirements and Production Costs

July 20, 2023 9:00 - 10:00 AM PDT

Webinar presented by the American Society for Enology and Viticulture

In our virtual seminar offered for ASEV members, you can read the published paper, see the authors present their findings, and engage directly with them during a Q&A session. Additional information coming soon.

[Read the paper and bring your questions!](#)

Moderator:

Lindsay Jordon, Constellation Brands, California

Speakers:

Larissa Strub, Hochschule Geisenheim University, Germany

Simone Loose, Hochschule Geisenheim University, Germany

Andreas Kurth, Hochschule Geisenheim University, Germany

This one-hour webinar includes a twenty minute Q&A with all of the authors. It is free to ASEV members and \$50 for non-members.

ASEV Member Registration: <https://www.asev.org/asev-webinar-member-registration>

ASEV Non-member Registration: <https://www.asev.org/asev-webinar-general-registration>

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Finger Lakes Grape Program

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2023 GDD & Precipitation

FLX Teaching & Demonstration Vineyard – Dresden, NY					
Date	Hi Temp (F)	Lo Temp (F)	Rain (inches)	Daily GDDs	Total GDDs
6/20/23	81.0	61.3	0.00	21.2	675.2
6/21/23	82.9	60.4	0.00	21.7	696.8
6/22/23	79.3	56.1	0.00	17.7	714.5
6/23/23	77.2	67.5	0.02	22.4	736.9
6/24/23	79.7	66.7	0.23	23.2	760.1
6/25/23	83.8	65.1	0.00	24.5	784.5
6/26/23	82.0	64.4	1.08	23.2	807.7
Weekly Total			1.33"	153.7	
Season Total			11.39"	807.7	

GDDs as of June 26, 2022: 915.1

Rainfall as of June 26, 2022: 8.40"



Seasonal Comparisons (at Geneva)

Growing Degree Days

	2022 GDD ¹	Long-term Avg GDD ²	Cumulative days ahead (+)/behind (-) ³
April	135.9	62.8	+13
May	216.8	256.3	+3
June	394.8	484.6	+1
July		646.1	
August		597.4	
September		360.2	
October		112.5	
TOTAL	747.5	2519.8	

¹ Accumulated GDDs for each month.

² The long-term average (1973-2022) 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.

2023 GDD & Precipitation

Precipitation

	2023 Rain ⁴	Long-term Avg Rain ⁵	Monthly deviation from avg ⁶
April	5.73"	2.80"	+2.97"
May	1.90"	3.07"	-1.17"
June	4.61"	3.56"	
July		3.43"	
August		3.21"	
September		3.47"	
October		3.41"	
TOTAL	12.24"	23.02"	

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)

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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
Gregg McConnell- Farm Credit East
Matt Doyle- Doyle Vineyard Management
Eileen Farnan- Barrington Cellars
Chris Gerling- Cornell University Extension
Mike Colizzi- 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

Hans Walter-Peterson—Team Leader
Donald Caldwell—Viticulture Technician

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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