



April 26, 2023

Finger Lakes Vineyard Update

Spring Grape IPM Meeting

Tuesday, May 2, 2023 4:30 – 6:00 PM

Clearview Farms

4150 Stever Hill Road

Branchport, NY ([click here for Google map](#))

Registration Link: <https://bit.ly/3Mdw421>

In This Issue:

Spring IPM	pg. 1
In the Vineyard	pg. 2
IPM	pg. 3
Replant Announcement	pg. 4
GiESCO Conference	pg. 5
Events	pg. 6
GDD	pg. 7

A tradition unlike any other...well, it's not quite the Master's Tournament, but it is a pretty great tradition, nonetheless. The Finger Lakes Spring Grape IPM Meeting is coming up in a couple of weeks, featuring talks about sour rot, sprayer operation, the role of weather information in pest management programs, and some updates on disease management as well ([click here to see the full agenda](#)). The meeting has been approved for 1.5 pesticide recertification credits, so be sure to bring your license with you if you want to receive credits. After the meeting, everyone is welcome to stay to enjoy dinner and some social time together.

There is no cost to attend the meeting, but you need to let us know you're coming. There will be a \$10/person charge for registration "at the door." Registration can be done via this link - <https://bit.ly/3Mdw421> - or by calling Brittany Griffin at CCE-Yates County at 315-536-5134.

We hope to see you all there this year!

In the Vineyard



Lots of growers were on edge Monday night and Tuesday morning, as the first (and hopefully only) frost threat visited the Finger Lakes after our early budbreak. The Tuesday morning temperatures recorded at NEWA stations located near vineyards all stayed above 30°F, and those places that dropped below freezing didn't stay there very long. I'm sure some wind machines around the region kicked into action as well, which likely would have helped in those places because it looks like winds were calm then. We all know that temperatures can be warmer and colder than those numbers depending on factors like topography and wind, so it's not out of the question that some early buds and shoots got nipped, especially closer to the ground.

We called official budbreak dates for several more varieties at the Teaching Vineyard this week:

- Jupiter April 13
- Marquette April 14
- Zweigelt April 14
- Marquis April 15
- Itasca April 15
- Chardonnay April 20
- Lemberger April 22
- Grüner V April 26
- Aravelle April 26
- Riesling April 26

(Cultivars in red were at budbreak last week)

Cabernet Franc is quite close, as are Corot noir and Cayuga White. The crew at CLEREL out in western New York called budbreak in Concord on April 20, which is the second earliest date in their records going back to 1979, and about 2½ weeks earlier than average. Only 2002 had an earlier budbreak than this year (April 19), and budbreak in 2021 was also April 20.

As we proceed over the next few weeks when frost damage is possible, if you believe that you could have damage that impacts your crop this year, be sure to contact your crop insurance provider right away to start a claim. There is no penalty for opening a claim and then closing it later if it turns out there is no damage. But the earlier they know about an event that could impact your crop, the better off your claim will be.

IPM

Phomopsis

With the early start to the season, the timing for the first phomopsis spray may need to be a bit earlier than usual. The first applications should be going on ideally when shoots are about 3-5" long and the clusters are first exposed. This early spray is primarily focused on protecting those young clusters and stems from infections, which can spread to other parts of the vines later on. These early infections on the clusters can enter the berries, which can result in yield losses due to shelling of fruit or losing entire clusters because the rachis is weakened.

Remember that phomopsis spores are spread primarily by splashing of raindrops, so vines on high wire cordon systems with shoots below the cordon are generally at greater risk of infections than low wire systems like VSP. However, any grapevine can have phomopsis infections develop under the right conditions and if protections aren't in place when the spores are active. It's been a wet beginning to the season so far – if this trend continues for the next several weeks, it will be important to keep up on the management of this disease.

Captan, mancozeb and ziram are still the primary (and most effective) materials for control of phomopsis. These materials only act as protectants, and therefore need to be in place prior to the spores landing on the leaf and shoot tissue. They have no systemic activity, and therefore coverage is key to effectively managing the disease. They are also subject to being washed off the vines because they only remain on the surface of the plant, so reapplication might be necessary after storms.

Insects



Climbing cutworm larva



Insect pest concerns are fairly minimal at this point in the season, but there are two insects that can cause damage to swelling buds and young shoots, and reduce yields if the populations get large enough. Both [climbing cutworm](#) and [grape flea beetle](#) cause minimal damage to grape buds in most years, rarely enough to justify the time and expense of any kind of insecticide application. But it is still worth scouting for evidence of feeding by these pests as temperatures begin to warm up and more buds begin to emerge from dormancy. By the time the young shoots have 1-2 leaves fully developed and separated, the pests are not much of a threat to them, meaning there is a fairly short window where they could have an impact.

Climbing cutworm larvae emerge from the litter and soil at the base of the vine at night to feed on the buds and return to the ground before dawn. When they are done feeding on the bud, it can look like a small cup was left where the bud used to be (see photo to left).

Grape Flea Beetles overwinter as adults and emerge in the early spring, feeding on swelling grape buds before laying their eggs. The larvae will feed on young leaves later in the spring. Like cutworms, we rarely see enough of them to justify any insecticide applications, but it is not unheard of for large numbers to show up out of nowhere. Again, some quick scouting can help to determine if there is enough dam



Damage to a grape bud
from climbing cutworm.

[Go to Top](#)

Testing a mycorrhizae-inoculated soak on replants

Several years ago we began testing commercial bioinoculants to increase growth of vines here in the Finger Lakes. In both field studies and greenhouse studies, inoculants that contained arbuscular mycorrhizal fungi (AMF) improved root growth (see Figure 1), shoot growth, and leaf blade/petiole nutrient concentration.

In 2022 we started a project testing the impacts of inoculated AMF into the pre-planting soak for replant vines, wondering whether the increased growth would result in improved survival rates of replants. We are looking for more grower-collaborators who are interested in trialing this practice in 2023.

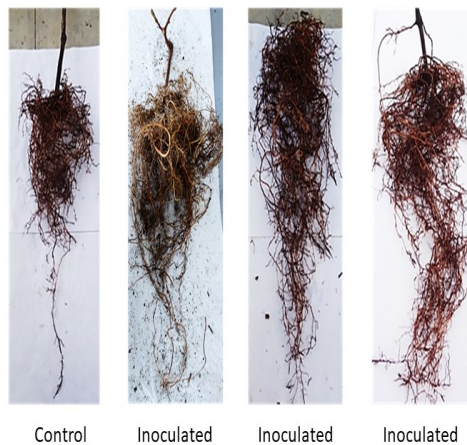


Figure 1: Inoculated vs. Control (no inoculation) treatments on own-rooted Cabernet Sauvignon

Image credit: Mariam Berdeja

If you are interested in trialing an AMF-inoculated pre-soak on replant vines, please reach out to me at Justine@Cornell.edu. We can bring you some inoculant. We'll ask that you try it on some vines but not all so that we can compare the growth and survival of those that weren't soaked with inoculants to those that were.

Thanks to the New York Farm Viability Institute for funding this project.



The 22nd GiESCO Meeting will take place in Ithaca and Finger Lakes Region on July 17-21, 2023 (<https://cals.cornell.edu/giesco>). The theme of this year's conference is "Diverse germplasm and precision technologies for varied and changing climates".

The [GiESCO](https://cals.cornell.edu/giesco) conference is one of the most important viticulture meetings in the world. Scientists from all over the globe attend this meeting, which is held every 2 years - except when a global pandemic delays it for 2 years. But finally, in July, many of the world's experts in viticulture and related fields will be coming to Cornell for this important gathering.

While much of the week is devoted to scientific talks and tours, the final day of the conference is devoted to information that is geared towards more practical use by the industry, especially the local growers and winemakers, and this year THAT IS YOU!!

On **Thursday, July 20, the Professional Day** will feature industry relevant, applied viticulture topics presented by international speakers.

Keynote speakers (and topics) are:

- Dr. Nick Dokoozlian, E&J Gallo (The vineyard of the future)
- Dr. Kaitlin Gold, Cornell University (Remote sensing for disease detection)
- Dr. Michela Centinari, The Pennsylvania State University (The threat of the invasive insect spotted lanternfly).

Other topics will include:

- Managing grapevine diseases with UV radiation
- New fumigation alternatives
- Vineyard nutrient budget and sampling protocols
- Response of vineyard soils to biochar
- and other timely topics that address grower challenges.

I encourage all of you to consider attending this one-day workshop that is devoted to the local industry. The Professional Day can be attended in person on the Cornell Campus (\$150) or virtually via Zoom (\$75).

Here is the link to register:

<https://app.certain.com/profile/form/index.cfm?PKformID=0x33447239940&&varPage=register>

With sincerity and gratitude,

Justine Vanden-Heuvel

Professor of Viticulture, Cornell University, GiESCO Conference Chair

Hans Walter-Peterson

Senior Extension Associate, Cornell Cooperative Extension, GiESCO Conference Planning Committee

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.



Spring Grape IPM Meeting

Tuesday, May 2, 2023 4:30 – 6:00 PM

Clearview Farms

4150 Stever Hill Road

Branchport, NY ([click here for Google map](#))

Registration Link: <https://bit.ly/3Mdw421>

See the announcement earlier in this newsletter, or visit [the Events page](#) on our website, blogs.cornell.edu/flxgrapes.

Tailgate Meetings

This year's Tailgate Meetings will start two weeks after the Spring IPM Meeting, on Tuesday, May 16, and continue every two weeks after that through August. We are not currently planning to hold any virtual Tailgate Meetings this year. Here is the schedule for this year's meetings, all of which will run from 4:30 – 6:00 PM:

- May 16, 2023: Lakewood Vineyards, Watkins Glen NY
- May 30, 2023: Hosmer Winery, Ovid NY
- June 13, 2023: Glenora Farms, Dundee NY
- June 27, 2023: Keuka Lake Vineyards, Hammondsport NY
- July 11, 2023: Young Sommer Winery, Williamson NY
- July 25, 2023: Gage Vineyards, South Bristol NY
- August 8, 2023: Tango Oaks Vineyard, Hector NY
- August 22, 2023: Fox Run Vineyards, Penn Yan NY

Finger Lakes Vineyard Update

Finger Lakes Grape Program

April 26, 2023

2023 GDD & Precipitation

FLX Teaching & Demonstration Vineyard – Dresden, NY					
Date	Hi Temp (F)	Lo Temp (F)	Rain (inches)	Daily GDDs	Total GDDs
4/19/23	49.1	37.6	0.00	0.0	124.8
4/20/23	60.4	38.8	0.00	0.0	124.8
4/21/23	85.6	46.9	0.06	16.3	141.0
4/22/23	71.8	48.9	0.94	10.4	151.4
4/23/23	50.5	40.8	0.01	0.0	151.4
4/24/23	49.1	37.6	0.24	0.0	151.4
4/25/23	49.5	32.7	0.00	0.0	151.4
Weekly Total			1.25"	26.7	
Season Total			3.96"	151.4	

GDDs as of April 25, 2022: 64.2

Rainfall as of April 25, 2022: 1.87"

Seasonal Comparisons (at Geneva)



Growing Degree Days

	2022 GDD ¹	Long-term Avg GDD ²	Cumulative days ahead (+)/behind (-) ³
April	134.9	62.8	+18
May		256.3	
June		484.6	
July		646.1	
August		597.4	
September		360.2	
October		112.5	
TOTAL	134.9	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	4.31"	2.80"	
May		3.07"	
June		3.56"	
July		3.43"	
August		3.21"	
September		3.47"	
October		3.41"	
TOTAL	4.31"	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)

Finger Lakes Vineyard Update

Finger Lakes Grape Program

April 26, 2023

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

T.J. Brahm – Randall Standish Vineyards

Herm Young– Young Sommer Winery

John Santos- Hazlitt 1852 Vineyards

Steve Sklenar– Sklenar Vineyard

Justine Vanden Heuvel- Cornell University

Peter Weis – Weis Vineyards

Cornell University Cooperative Extension provides equal program and employment opportunities. CCE does not endorse or recommend any specific product or service. This program is solely intended to educate consumers about their choices. Contact CCE if you have any special needs such as visual, hearing or mobility impairments.

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.

flgp.cce.cornell.edu

"Cornell Cooperative Extension is an equal opportunity, affirmative action educator and employer"

