

Cornell Cooperative Extension

Finger Lakes Grape Program



June 6, 2024

Finger Lakes Vineyard Update

In the Vineyard

BLOOM IS HERE!

We're into the bloom season now, as we have called bloom dates for our Marquette and Itasca vines at the Teaching Vineyard on May 31 and June 1, respectively. For Marquette, this is about 10 days earlier than our ten-year average for bloom date. We have also been seeing trace bloom in Chardonnay, Cayuga White, and our two seedless grapes as well. I spent some time in Concord blocks in the Branchport and Himrod areas the past few days and saw various stages of bloom in all of those blocks as well. The Himrod site is at about 50% bloom as of today, June 5, and the blocks near Branchport are probably going to be around that stage by the weekend.

We started off last year with a historically early budbreak, but because last May was so cool and cloudy, bloom was not as early as budbreak was. This year, budbreak was later than 2023 (thank goodness), yet we are reaching bloom earlier than we did last year because we had more sun and heat between budbreak and bloom.

Fruitfulness looks to be very good in most places, although last year's freeze may be having some impact depending on how long it took for new shoots to start to regrow and developing buds to produce cluster primordia that would lead to this year's crop size. Cluster counts at the Teaching Vineyard, where we experienced virtually no frost injury last year, are about normal or a little low compared to our five-year average, but also very similar to the counts from 2021, when yields were significantly higher than normal (see table below). The number of clusters per vine is just one component of the final yield, so factors like percent fruit set and berry size still have their role to play in what our crops will look like come this fall.

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Concord cluster in bloom near Branchport - June 4, 2024.

	2021	2023	5-Yr Avg
Riesling	43	40	53
Chardonnay	29	31	28
Cab Franc	26	34	38
Lemberger	22	30	28
Grüner Veltliner	10	15	19

IPM

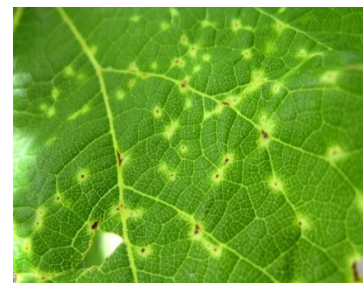
Where are the IPM Guidelines???

We received word a few days ago that the printed and online versions of the 2024 NY/PA Grape IPM Guidelines are finally available. If you ordered a hard copy when you signed up for the FLGP this winter, you should be receiving it the mail very soon. The online version of the Guidelines is available now at <https://cropandpestguides.cce.cornell.edu/Guidelines/2024/Grapes/>.

We were also just recently informed that there will no longer be a “bundled” option to order both the printed and online versions for a lower price. Each option will be the same price (\$35) with no discount for ordering both. As somebody who paid for both versions, I’m a little irked about this, but the change came from the folks who handle the sales of the Guidelines for Cornell, so we have no say over it. - Hans

Keeping Resistance in Mind During Bloom Sprays

The arrival of bloom should put everyone on high(er) alert for their disease management programs. We’ve had a nice stretch of dry weather over the past week or so which has promoted growth and kept things pretty clean so far, except for the occasional phomopsis lesions that developed when conditions were wet earlier this spring. That looks to be changing for a little while with chances of rain for the next several days. Not the best timing, obviously.



Phomopsis lesions shortly before bloom.

If you’ve been relying mostly on materials like mancozeb and sulfur up until now, the time has come to switch up (or add in) some other options to be sure the full suite of diseases is being covered during this critical time. Also keep in mind that certain materials should generally not be relied on to adequately manage some diseases due to high levels of resistance in many populations in the region.

FRAC 3 (DMI fungicides): Do not rely on materials in FRAC 3 to control PM on their own. The one except might be difenoconazole (the “top” in Quadris Top and Revus Top), but at this critical time of the season, it doesn’t really make sense to take that risk. Back them up with something else.

FRAC 11 (Strobilurins): Similar to FRAC 3, do not rely on these materials to manage PM or DM on their own. Bryan Hed found that about 90% of DM isolates in the Lake Erie region were resistant to FRAC 11 materials.

FRAC 40 (Revus, Revus Top, Zampro): There is documentation of resistance developing in multiple vineyards in NY to FRAC 40 materials. While we’re not suggesting you not use it, be very conservative with its use to manage DM. If you still believe it’s working for you, that’s great, but still suggest keeping its use to no more than twice per season.

FRAC 33 (phos acid products – Rampart, ProPhyt, etc.): We have not documented resistance to FRAC 33 products like we have for FRAC 40, but we know that resistance can quickly develop to this material, and I suspect that there are vineyards in the Finger Lakes where its efficacy is at least reduced. In Bryan Hed’s assays in the Lake Erie region, he found over 60% of DM isolates were resistant to phos acid products. Similar to the FRAC 40 materials, if you think it is still effective at managing DM in your vineyard, try to limit its use to 2x per season.

A couple of other considerations for materials during the pre to post bloom period:

Katie Gold and Dave Combs recommend limiting use of FRAC 50 (Prolivo and Vivando) and FRAC 13 (Quintec) to two applications per season for PM.

Limit the use of Ridomil to once per season. It has very high risk of resistance development.

Are you interested in trialing a bioinoculant?

Several years ago, we began testing commercial bioinoculants to increase growth of vines here in the Finger Lakes. The goal of these bioinoculants is to introduce beneficial fungi (called AMF) to the soil that forms a symbiotic relationship with the vine roots, helping them acquire more water and nutrients. In both field studies and greenhouse studies, inoculants that contained AMF improved root growth (see Figure 1), shoot growth, and leaf blade/petiole nutrient concentration. However, many bioinoculants are quite expensive (ranging from \$200 to more than \$1,000 per acre) so we are testing application methods to determine whether the inoculant needs to be applied every year, and/or to every vineyard row.

We are looking for grower-collaborators who are interesting in trialing different application methods for the bioinoculant. The application methods are: 1) every row vs. every other row, or 2) one vs. two applications of the bioinoculant. If you are interested in trialing one of these methods, we can bring you some inoculant and help you apply it. We'd come back and take some leaves for nutrient measurements at veraison from the vines.

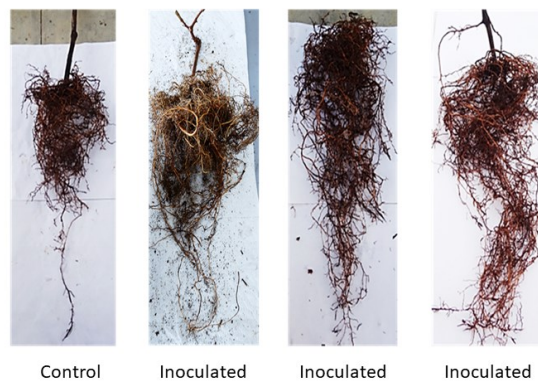


Figure 1: Inoculated vs. Control (no inoculation) treatments on own-rooted Cabernet Sauvignon

Image credit: Mariam Berdeja

Please reach out to me at Justine@Cornell.edu if you are interested. Thanks to the New York State Department of Ag and Markets and the New York Farm Viability Institute for funding this project.

Upcoming Events

Don't forget to check out the calendar on our website (<https://blogs.cornell.edu/flxgrapes/events/>) for more information about these and other events relevant to the Finger Lakes grape industry.



Tailgate Meeting

Tuesday, June 11, 2024 4:30 – 6:00 PM

Thorpe Vineyards

8150 Chimney Heights Blvd., Wolcott NY

Our next Tailgate Meeting will be on Tuesday, June 11 at Thorpe Vineyards in Wolcott. 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 1.5 pesticide recertification credits by DEC.

Here is the remaining schedule for Tailgate Meetings this year:

- June 25, 2024 Dr. Frank Vineyards, Beattle Hill Rd, Hector, NY
- July 8, 2024 (Monday) Simmons Vineyard, 3243 Fingar Road, Bluff Point NY
- July 23, 2024 Knapp Vineyard, 2770 Ernsberger Road, Romulus, NY
- August 13, 2024 Randall Standish Vineyards, 5506 NY-21, Canandaigua, NY
- August 20, 2024 Miles Wine Cellars, 168 Randall Crossing Rd, Himrod, NY

Webinar on 2024 Farmworker Protection Final Rule

Thursday, June 6 1:00 – 2:30 p.m. EDT

Hosted by U.S. Department of Labor

On Thursday, June 6, 2024, the Department of Labor will host a public webinar to educate employers, agricultural associations, farm labor contractors, farmworkers, advocates, and other interested members of the public on the changes to the H-2A and Wagner-Peyser Employment Service programs made by the [2024 Farmworker Protection Final Rule](#). Participants in this webinar will learn from the Office of Foreign Labor Certification, the Office of Workforce Investment, and the Wage and Hour Division about the key aspects of this rule. The Final Rule will become effective June 28, 2024, and OFLC will begin accepting applications subject to the provisions of this rule on Aug. 29, 2024.

The webinar is free to attend but registration is required. [Click here to register for this webinar.](#)

The Department of Labor is committed to equitable access and inclusion of all people. If you require an accommodation or language interpretation to attend this event, please email stakeholder.meeting@dol.gov by May 30, 2024.

2024 GDD & Precipitation

FLX Teaching & Demonstration Vineyard – Dresden, NY					
Date	Hi Temp (F)	Lo Temp (F)	Rain (inches)	Daily GDDs	Total GDDs
5/29/24	66.4	52.7	0.26	9.6	470.0
5/30/24	63.1	48.7	0.00	5.9	475.9
5/31/24	72.9	45.9	0.00	9.4	485.3
6/1/24	77.0	50.0	0.00	13.5	498.8
6/2/24	80.2	57.6	0.06	18.9	517.7
6/3/24	79.3	60.4	0.00	19.9	537.5
6/4/24	86.2	59.5	0.00	22.9	560.4
Weekly Total			0.32"	100.0	
Season Total			7.78"	560.4	

GDDs as of June 4, 2023: 459.2

Rainfall as of June 4, 2023: 7.00"



Seasonal Comparisons (at Geneva)

Growing Degree Days

	2024 GDD ¹	Long-term Avg GDD ²	Cumulative days
April	69.9	64.2	+1
May	393.5	255.5	+11
June	80.0	484.3	+12
July		647.2	
August		596.8	
September		361.1	
October		113.9	
TOTAL	543.4	2522.9	

¹ Accumulated GDDs for each month.

² The long-term average (1973-2023) 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

	2024 Rain ⁴	Long-term Avg Rain ⁵	Monthly deviation from avg ⁶
April	4.73"	2.86"	+1.87"
May	2.75"	3.04"	-0.29"
June	0.09	3.58"	
July		3.48"	
August		3.19"	
September		3.43"	
October		3.39"	
TOTAL	7.57"	22.97"	

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

Dave Orzel– Nutrien Ag

Matt Doyle- Doyle Vineyard Management

Tara Farnan- Barrington Cellars

Chris Gerling- Cornell University Extension

Mike Colizzi- E & J Gallo

Tina Hazlitt- Sawmill Creek Vineyards

Cameron Hosmer- Hosmer Winery

Herm Young– Young Sommer Winery

John Santos- Hazlitt 1852 Vineyards

Steve Sklenar– Sklenar Vineyard

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Peter Weis – Weis Vineyards

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Cornell Cooperative Extension Finger Lakes Grape Program

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Ellen Coyne—Project Field Technician

<https://blogs.cornell.edu/flxgrapes/>

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