



CROP UPDATE

March 31, 2022

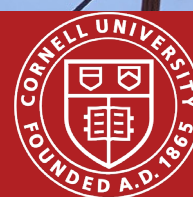
Spring at CLEREL-
Kim Knappenberger

Cornell Cooperative Extension
Lake Erie Regional Grape Program



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Cornell Cooperative Extension | Chautauqua County

Attention Agricultural Producers

Cornell Cooperative Extension and the Chautauqua County Legislature announce the
Chautauqua County Agricultural Improvement Program.

We are looking to assist with your business improvements.
Chautauqua County Agricultural Improvement Program funding is provided by the Chautauqua County Legislature with funds from the American Rescue Plan Act.

- ◆ Do you have an upcoming project planned on your farm?
- ◆ Want to improve your agricultural business?
- ◆ Need help funding the improvements?
- ◆ Are you ready to make farm changes and improvements?
- ◆ Do you have a business plan?
- ◆ Do you want help developing a business plan?



**If you answered YES to any of the above questions,
let us help you!**

Funding for this program is limited. All completed applications will be considered and awarded on a first come first serve basis. Eligible projects may receive a grant up to \$10,000 per farm. Grant funds can reimburse up to 10% of removal fees and up to 25% of remediation or improvement expenses.

Project ideas may include:

- ◆ Drainage
- ◆ Soil amendments
- ◆ Fencing
- ◆ Crop changes or improvements
- ◆ Land renovations
- ◆ Farm structure improvements

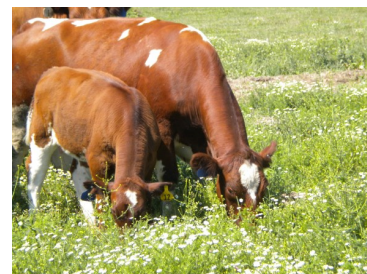
Eligibility requirements

- ◆ Chautauqua County resident
- ◆ Farm business designation – File Schedule F
- ◆ Each project must include a business plan indicating planned improvements. Don't have a plan? We can help you develop one, free of charge.

Applications available April 5, 2022

Visit: <http://chautauqua.cce.cornell.edu/agriculture>

Contact: Lisa Kempisty, Extension Educator
(716) 664-9502 Ext. 203
ljk4@cornell.edu
525 Falconer Street
P.O. Box 20
Jamestown, NY 14702-0020



Cornell Cooperative Extension of Chautauqua County provides equal program and employment opportunities. Please contact the CCE Chautauqua County office if you have any special needs."

Viticulture

Jennifer Russo, Viticulture Extension Specialist, LERGP

In the Vineyard – Vine Acclimation

The weather this week has been typical for WNY, when our windows are open one day and we are brushing the snow off of the vehicles the next. What does that mean regarding our bud hardiness? Growers have been sending me photos of bleeding vines (Photo 1), mostly on suckers which are closer to the warmer ground and root stores, with some pruning woods weeping as well. We have had some beautiful weather, and that has signaled to the vines to wake up.

During the dormant season, the buds are completely cut off from the vine's vascular system, which is the phloem and xylem that deliver food and water respectively. It is at this time of year when the grapevine re-establishes that connection between the buds, canes, and roots. As temperatures rise above freezing, certain enzymes activate. Enzymes are the catalyst for biological processes. Buds start to rehydrate and eventually swell. In our climate in the Northeast, we do not have a shortage of water at this point in the growing season. The warmed-up soil sparks the roots to begin the absorptive activity and take that available water up through the plant xylem. This is the beginning of re-establishing the new vascular system for the upcoming growing season. Water in the buds is what we are concerned about at this time. If we reach certain temperatures, the water inside can freeze and those sharp ice nucleation crystals may damage bud tissue.

Thanks to funding from the New York Wine and Grape Foundation, the LERGP has been monitoring grapevine bud hardiness in 17 different varieties weekly from November through March. The Lake Erie Regional Grape Program provides valuable research-based information for you to reference when performing necessary management decisions in your vineyards. For instance, the Key Stats Today: on the landing page seen here in Photo 2., from 3/27/2022, gives you the current GDD (Base 50) from Jan 1 2022, the amount precipitation in liquid form and snow, the 35-year average precipitation, the current phenological stage, and the Modified Shaulis Field Score visual. You will also see the most up-to-date information for bud hardiness Table 1, and there is a link to the entire season's LTE data set as well. To visit our website and find this information, please [Click Here](#).



Photo 1. Grower submitted photo of vine bleeding sap near the ground

Key Stats Today:

Current Concord Phenology at CLEREL

3/27/2022

GDD (Base 50) from Jan 1 = 20

GDD (Base 50) from Apr 1 = 0

(as reported on NEWA.cornell.edu – Portland station)

Precipitation from Jan 1 = 8.75" (liquid - melted snow)

= 66.7" snow

35-year average precip for Mar. 20 = 7.01 "

Bud Break at CLEREL this year...

Bloom at CLEREL this year ...

Veraison at CLEREL this year ...

Dormant



Modified Shaulis Field Score













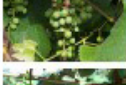


Modified Shaulis Field Score			
	1.0	Dormant Bud	Shoot and Inflorescence Development
	2.0	First Swell brownish wool clearly visible	
	2.5	Intermediate Swell half or more of bud doeskin visible	
	3.0	Full Swell pink on side of bud	
	4.0	Budbreak half or more of leaf edge exposed	
	4.5	Leaf Emergence	Flowering
	4.8	Full Leaf Blade Visible	
	5.1	Flat Leaf Stage one leaf perpendicular to shoot	
	9.05	First Bloom 5% florets open	Berry Development
	9.50	Bloom 50% florets open	
	9.80	80% Bloom majority of caps off	
	10.2	Fruit Set berry abscission fruit >2mm diameter	
	10.7	Pea-sized Berries fruit 7mm diameter	
	10.9	Berry Touch	Ripe
	11.5	Veraison 5% of berries have color	

Photo 2. Screenshot of the lergp.com website Key Stats Today information

Variety	Date	LTE 10 °F	LTE 50 °F	LTE 90 °F	high	low
Concord High	3/21/2022	1.71	0.7	-0.35	51	34
Concord Low	3/21/2022	4.32	2.17	0.39	51	34
Riesling 3309	3/21/2022	6.04	-1.79	-4.92	51	34
Vignole	3/21/2022	-1.59	-5.66	-8.82	51	34
Niagara	3/21/2022	3.18	-1.53	-2.74	51	34
Diamond	3/22/2022	4.37	1.45	-0.33	44.4	32.2
Delaware	3/22/2022	4.51	2.05	1.09	44.1	32.9
Foch	3/22/2022	6.62	4.15	0.10	44.4	32.2
Seyval	3/22/2022	2.84	1.62	-1.07	44.4	32.2
Steuben	3/22/2022	11.88	4.19	-4.92	44.4	32.2
Cab Franc	3/2/2022	0.02	-5.19	-6.09	36.3	23.3
Gewurztramine	3/2/2022	-0.31	-6.81	-7.80	36.3	23.3
Pinot Gris	3/2/2022	7.34	-1.64	-4.16	36.3	23.3
Aurora	3/22/2022	-0.69	-4.81	-6.05	44.1	32.9
Vincent	3/22/2022	2.71	1.20	-0.56	44.1	32.9
Ives	3/22/2022	9.59	7.34	5.99	44.1	32.9
Traminette	3/22/2022	0.81	-2.15	-3.46	44.1	32.9
Elvira	3/22/2022	0.41	-1.88	-5.03	44.1	32.9

Table 1. Bud Hardiness Information for the week of 3/22/2022 varieties

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Forecasted Hourly Temperature and Wind



Figure 1. Forecasted Hourly Temperature for Portland, NY for this week

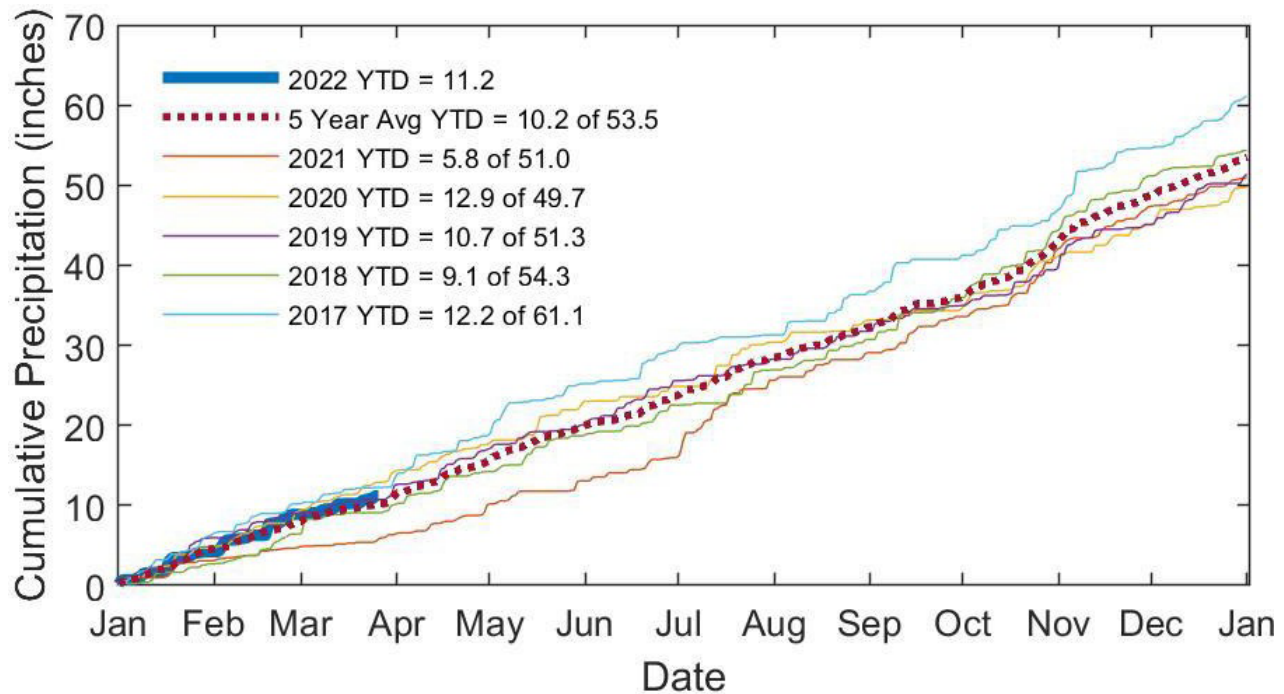


Figure 2 is the historical Precipitation in inches for Portland, NY. Currently, we are tracking along with the year 2019.

Historical Precipitation (inches)

Notes: Current season accumulation is reported as the thick blue line from January 1 through date of this report. Historical season data is reported between January 1 and December 31 of each year. The legend indicates how many inches of precipitation had accumulated by the same date in previous years and the final total for the year on December 31. Data is sourced from Cornell's Northeast Regional Climate Center (NRCC) high resolution gridded data service.

Updates and Information

Kimberly Knappenberger, Viticulture Assistant, LERGP

Spotted Lanternfly Traps coming to a Vineyard near you!

We have talked a lot about the possibility of Spotted Lanternfly arriving in our area soon. In order to stay on top of it we are making efforts to detect any presence as early as possible. The New York State Integrated Pest Management program has provided us with a small number of Spotted Lanternfly traps to post near vineyards in our area. This is in addition to the extensive trapping efforts by NYS Ag and Markets and the NYS PRISM's who are deploying hundreds of traps near highways and public lands across the state.

These traps do not use lures to draw in the adults, but will trap them in their normal movements up the tree. These traps will not attract SLF to your vineyards! As you have probably heard, these insects prefer to feed on Tree of Heaven, so we are hoping to locate some vineyards that have Tree of Heaven nearby. Locating the traps on these trees increases the chance of detection. If there are no TOH trees then choosing a taller tree in an area is helpful and possibly choosing one of the other preferred species such as black walnut, willow, or red & silver maple.

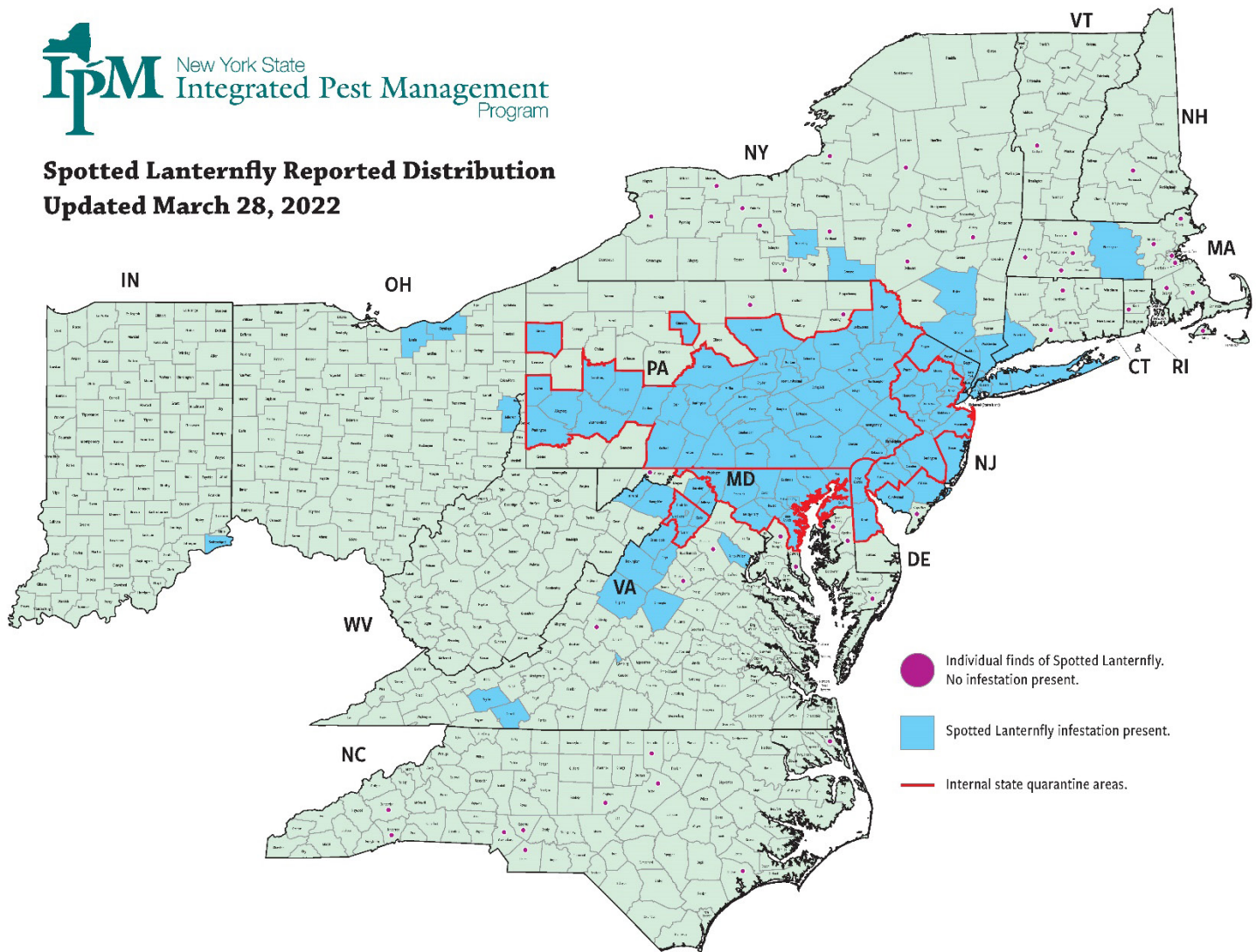
This is where we are looking for some help! We could go out scouting for the perfect spot to place them, but you already know where these trees are in relation to your vineyards. If you think you have a good place to put a trap, contact Kim at ksk76@cornell.edu or Jennifer at jjr268@cornell.edu to let us know. We will come scout it out. Because these traps were supplied by NYS IPM we will need to place them in New York vineyards that we can access on a weekly basis.

Flor Acevedo, Department of Entomology, PSU recently stated that the PA Department of Agriculture announced that the SLF Quarantine zone has been expanded by 11 counties, increasing the total counties in Pennsylvania to 45. She also stated that Spotted Lanternfly has not yet been detected in Erie County (PA), but it is very close now that it has recently been found in Mercer County.

Our best chance of preventing damage to vineyards is early detection and strong cooperation. We look forward to hearing from you!



Spotted Lanternfly Reported Distribution
Updated March 28, 2022



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Vineyard Improvement Program

If spring has got you thinking about getting rid of that abandoned/underproducing vineyard and turning it around to something that works better in your business plan, now is the time to contact us about the Vineyard Improvement Program. This five year grant is already in its fourth year and applications will only be accepted until October of this year (2022) to give you time to get the vineyards out and a crop replanted by October 2023.

Vineyards of at least 1 acre in the Southern Tier + Erie and Niagara counties of New York are eligible for this grant that reimburses 50% of removal costs up to \$1,500 and 25% of replant costs up to \$1,500 per acre. To learn more go to lergp.com and click on the Vineyard Improvement Program button or contact Kim at ksk76@cornell.edu.



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2022 LERGP Coffee Pot Meeting Shedule

April 27, 2022	10:00am	Arrowhead Winery	12073 East Main St. North East, PA 16428
May 4, 2022	10:00am	Militello's Farm Supply	2929 Route 39 Forestville, NY 14062
May 11, 2022	10:00am 6:00pm	John Mason, Mason Farms Virtual Zoom Meeting	8603 West Lake Rd. Lake City, PA 16423
May 18, 2022	10:00am	Andrew Nichols	1850 Ridge Rd. Lewsiton, NY 14092
May 25, 2022	10:00am	Alicia & Zach Schneider	771 Bradley Rd. Silver Creek, NY 14136
June 1, 2022	10:00am	Knight Farms	18 Shaver St. Ripley, NY 14775
June 8, 2022	10:00am 6:00pm	TrolleyLine Vineyards Virtual Zoom Meeting	12029 Middle Rd. North East, PA 16428
June 15, 2022	10:00pm	Dan Sprague Farm	12435 Versailles Rd. Irving, NY 14081
June 22, 2022	NO COFFEE POT MEETING		
June 29, 2022	10:00am	Betts' Farm	7365 East Route 20 Westfield, NY 14787
July 6, 2022	10:00am	Paul Bencal Farm	2645 Albright Rd. Ransomville, NY 14131
July 13, 2022	10:00am 6:00pm	Liberty Winery Virtual Zoom Meeting	2861 Route 20, Sheridan, NY 14135
July 20, 2022	10:00am	Beckman Farm	2386 Avis Dr. Harbor Creek, PA 16421
July 27, 2022	10:00am	Arrowhead Spring Winery	4746 Town Line Rd. Lockport, NY 14094

Virtual Coffee Pot Meetings Registration:

If you take a look at the coffee pot schedule, you will notice that we have 3 virtual coffee pot meetings scheduled in addition to our in person meetings. They will be in the evenings on the second Wednesday of the months. If you are planning on attending and receiving pesticide credits, you must [register on our web-site](#). In addition to registering, you must supply a copy of your license, date of birth and phone number to me at kjr45@cornell.edu.

The team is excited to be and about visiting the growers during this growing season. We hope that you can come out and join us for some of these meetings.

	<p>NORTH EAST FRUIT GROWERS 2297 KLOMP ROAD, NORTH EAST, PA 16428 814.725.3705 NEFRUITGROWERS@VERIZON.NET OPEN YEAR-ROUND MONDAY - FRIDAY 8AM - 5PM OPEN SATURDAYS APRIL- NOVEMBER 8AM - NOON</p>	
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How to reach us:

Contact Information:

Jennifer Phillips Russo - LERGP Viticulture Specialist:

jjr268@cornell.edu
 (716) 640-5350

Kevin Martin – LERGP Business Management Specialist:

kmm52@psu.edu
 (716) 397-9674

Andy Muza – LERGP Disease and Pest Management Specialist:

ajm4@psu.edu
 (814) 969-3025

Kim Knappenberger – LERGP NEWA and Vineyard Improvement Program Contact

ksk76@cornell.edu
 716-792-2800 ext 209

Kate Robinson – Administrative Assistant

kjr45@cornell.edu
 716-792-2800 ext 201