



CROP UPDATE
January 11, 2022

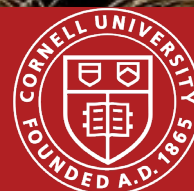
Wishing you a happy
and healthy 2022.

Cornell Cooperative Extension
Lake Erie Regional Grape Program



PennState Extension

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Diversity and Inclusion are a part of Cornell University's heritage. We are a recognized employer and educator valuing AA/EEO, Protected Veterans, and Individuals with Disabilities.



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New Day in the Vineyard-
Jennifer Phillips Russo

[Click here to
watch LERGP
Podcasts](#)

The Lake Erie Regional Grape Program is a Cornell Cooperative Extension partnership between Cornell University and the Cornell Cooperative Extensions in Chautauqua, Erie and Niagara county NY and in Erie County PA.

LERGP Winter Grape Grower Conference Series

Registration is [OPEN!](#)

January 19, 2022-Zoom 9:00am-Noon

February 16, 2022-Zoom-9:00am-Noon

March 16, 2022-Williams College SUNY Fredonia In Person

Register once for all 3 events- you can attend 1, 2 or all 3.

Registration price is for all 3.

You can register anytime from now through March 4th, 2022.

We are planning to have guest speakers at all events.

January will have Dr. Terry Bates speaking on the MyEV tool and vine balance. Kevin Martin will discuss converting from bin to bulk harvest.

February will be Andy Muza and Bryan Hed conducting the Pest Management -What is Your Plan?

March- In Person at SUNY Fredonia

see next page for full agenda of speakers and information

February and March will have DEC and PDA credits available.

We will update the [LERGP web-site](#) as information becomes available, and keep you informed through the Crop Update as well.

Winter Growers' Conference Series

WEDNESDAYS:

- **January 19, 2022** from **9a-12p**(3 hr virtual Zoom meeting),
- **February 16, 2022** from **9a-12p**(3 hr virtual Zoom meeting),
- **March 16, 2022**(full day of programming **in person** at SUNY Fredonia)

Registration will remain open for the events through the March 4 deadline for In Person conference. Please keep in mind that registration is for all 3 events and there is no a la carte, or prorated option. You can attend 1, 2 or all 3 parts of the series but the price will remain the same.

[REGISTER NOW!](#)

We look forward to seeing you at all 3 events!

The 2022 Winter Grower Conference Series

One Stop Shopping for Research-based Information and Pesticide Recertification Credits!

We have an excellent program lined up for the 2022 Winter Grower Conference featuring experts from many fields. The grower advisory panel had many suggestions of important topics that they wanted information from. As always, the conference series will be full of information on the latest research-based tools that can be taken home and applied to your vineyard.

This Conference Series is made up of two virtual days from 9 AM-12 PM, January 19, 2022 and February 16, 2022 and one in-person day on March 16, 2022, from 8 AM to 4:30 PM. Please be aware that if the in-person conference gets shut down due to COVID restrictions, then we will be holding it virtually on the same day. Our regional growers and industry stakeholders come to the LERGP Growers Conference in March of each year to hear the research-based information being developed by Cornell and Penn State faculty and extension staff as well as other speakers from across the country, but many are also looking for those elusive pesticide recertification credits required by the NYS DEC and PDA. For those attending this year's conference on March 16th at Fredonia State University, you will not be disappointed.

How Many Credits?

One of the questions that the LERGP extension team finds itself answering about the LERGP Growers' Conference is "how many credits are going to be available?" We have applied for NYS DEC and PDA pesticide recertification credits for the February 16, 2022 and the in-person date of March 16, 2022 and are waiting for approval.

Check out the summary of the talks below and you will see that not only will you hopefully get recertification credits, but these talks provide you with the opportunity to get information that you need to become compliant with the changes in Labor Laws, as well as learn about the information and resources you need to sustain vineyard production.

January 19, 2022 Virtual Conference Series 9 AM-12 PM

MyEV Tool

The SCRI project was a multi-university and multi-state grant. The project aimed to bring precision viticulture to growers. Throughout this grant, our growers have had the opportunity to use 'loaner' NDVI sensors and DUAL EM soil sensors to start implementing this technology. Once the data was collected, Cornell Research and Extension staff completed digital mapping. With the maps, growers were given an unprecedented vantage point to visualize variation in their vineyards. The maps can be used for most all vineyard cultural practices, currently growers are relying on them to direct crop estimation, direct harvest sequence, and most of all, diagnose low producing areas of the vineyard block.

A collaborative effort between Cornell Research and Extension team members, and Orbitist developed a new viticultural tool for growers to visualize different data sets and digitally work with that data to enhance their management strategies. Both, Dr. Terry Bates, Director of the Cornell Lake Erie Research and Extension Laboratory, and Nick Gunner, of Orbitist, will discuss how this open-source tool will utilize grower information and collected data allowing growers to become more efficient by altering practices and significantly enhancing their ability to predict crop size, yield and quality across their entire vineyard.

Bulk vs Bins - Costco for College Students

Kevin Martin, The Lake Erie Regional Grape Program Business Management Specialist, will present a discussion of bulk versus bins for harvest. As the shift toward bulk delivery begins to look inevitable, we take a deep dive (case study style) into bulk grape deliveries. Our goal is to make this method work and to succeed for operations of all sizes. To do that we need to challenge assumptions, understand the differences and use that information to right-size capital investments.

February 16, 2022 Virtual Conference Series 9 AM-12 PM

2022 Pest Management Spray Schedule – What's Your Plan?

Speakers: *Bryan Hed*, Research Technologist (Plant Pathology), Lake Erie Regional Grape Research and Extension Center, Penn State; *Andy Muza*, Lake Erie Regional Grape Program Extension Team & Penn State Extension - Erie County, PA

When: **February 16, 2022 (Wednesday, 9 AM – 12 P.M.)**

Course Location: **Webinar (ZOOM meeting)**

Agenda Information

This meeting is intended to be interactive so that growers will have the ability to ask questions concerning specific pest problems or potential problems in the 2022 season.

Topics that will be addressed include: timing of spray applications at critical growth stages; pesticide options, efficacy; and resistance management.

In-Person 2022 Winter Grower Conference

March 16, 2022 from 8 AM to 4:30 PM at:
WILLIAM'S CENTER
280 CENTRAL AVE. SUNY FREDONIA CAMPUS
FREDONIA, NY 14063

Understanding Soil & Petiole Tests and Vine Nutrition 8:15-9:00 AM

Terry Bates, CLEREL Director, Cornell AgriTech, Cornell University, will talk about reading and understanding your soil and petiole tests and how they reflect vine nutrition. Terry's innate ability to break down scientific information into useful chunks that can frame your understanding of complex scientific interactions and how they can work for you and your operations will be front and center. This information will guide your nutritional strategies and inform your decision making.

Cover Crop Case Study in Concord Vineyard 9:05-9:35 AM

Jennifer Phillips Russo, the Lake Erie Viticulture Extension Specialist, Bob Betts, Concord Cover Crop Extraordinaire, and Joseph Amsili, an Extension Associate with the Cornell Soil Health Team will discuss a case study of the Betts Farm Cover Cropping Experiment. The Betts efforts in collaboration with the Lake Erie Regional Grape Program has resulted in an over ten-year long experiment. This talk will discuss the how's and why's of how it was started and where the health of the soil is now.

Cold Hardiness and Climate Change 9:40-10:10

Jason Londo, Associate professor of fruit physiology at Cornell University, will talk about his research on bud dormancy and cold hardiness, which are critical adaptations for surviving winter cold stress for temperate perennial plant species, with shifting temperature-based responses during the winter. This information can be used to refine models predicting effects of climate change on dormancy and cold hardiness in grapevine.

Labor Issues 10:15-10:45

A reliable and competitive workforce is one of the biggest challenges the agricultural community is recently facing, along with the 2020 changes in labor laws. Our opening speaker, Richard Stup, Ph.D., Agricultural Workforce Specialist for Cornell Cooperative Extension, will address these challenges. One of the main topics of discussion will be labor concerns and the future of the workforce in regard to what the trends in labor are and how those trends will affect grape farms in our region.

MyEV Viticulture Data Collection and Visualization Tool 10:45-11:00

One of the major barriers to adoption for small to medium size grape growers is in having access to spatial data processing. Nick Gunner, with Orbitist, will present an overview of the MyEV tool web-based tool to upload, process, and visualize sensor data to improve your vineyard operations.

Disease and Insect Management and Invasive Species

Through six different presentations, multiple speakers will provide updates and information on pest management.

12:30-1:00 PM - Kaitlin Gold, Department of Plant Pathology, Cornell University.

Katie will discuss *Hyperspectral systems for pre-symptomatic agricultural disease detection in Grape IPM*, highlighting some of the tools and approaches for Grape IPM. Katie will talk about the

latest hardware and software for remote imaging with future application to digital agriculture and grape production with focus on black rot trial data and known resistances in WNY.

1:05-1:35 - Lance Cadle-Davidson, USDA, Cornell University.

Research developed through the *VitisGen2: New Technologies Accelerate Disease Resistant Cultivar Development* will be presented by Lance. He will talk about how the *VitisGen2* project identifies and address threats from diseases. The program focuses on novel methods to improve disease resistance and improve production efficiency and profitability long term throughout the U.S. table grape, raisin, and wine industry.

1:40-2:10 - Dan Olmstead, NYS IPM, Cornell University.

Dan will be presenting the new NEWA website. Growers across New York State and Erie County Pennsylvania utilize the NEWA website model results to project pesticide management decisions in advance for grape berry moth, powdery mildew, black rot and Phomopsis. Dan's talk will familiarize them with accessing information on the new NEWA and provide an opportunity for a more in-depth understanding of how the information can be used to make decisions in their vineyards.

2:20-2:50 - Greg Loeb, Department of Entomology, Cornell University.

Greg will be presenting his ongoing research projects include vector-pathogen interactions (e.g. grape leafroll disease and mealybug and soft scale insect vectors, and sour rot in grapes and *Drosophila*). His overall goal is to understand the principal forces that influence species interactions involving plants, herbivores, natural enemies and more recently microbes with the specific applied goal of developing novel approaches to pest management with a focus on grapes.

2:55-3:25 - Brian Eshenaur, NYS IPM, Cornell University.

Brian is the NYS IPM lead on Spotted Lanternfly and he will be presenting on the current Spotted Lanternfly infestations, information he has learned from PA and Virginia grape growers' experiences with SLF, and he will also present on the history, basic biology, impact and management of this pest.

3:30-4:00 - Eric Clifton, Department of Entomology, Cornell University.

Eric will present *Fungal Pathogens Show Promise as IPM Spotted Lanternfly Management Strategies*. Spotted Lanternfly is a serious invasive species with current infestations in Southeast Pennsylvania, Virginia, Delaware, New Jersey and now New York. While Tree of Heaven is its preferred host, grapes have been found to be the preferred crop for this pest. Eric will present his research on use of native fungal pathogens as SLF management strategies, including trials with commercial biopesticides that use insect pathogenic fungi. Eric will also share some of his work with surveys for spotted lanternfly egg masses in vineyards and the surrounding landscape.

We hope to see you at the conference!

LAKE ERIE REGIONAL GRAPE PROGRAM

2022 GRAPE GROWERS' Winter Series CONFERENCE REGISTRATION FORM

SUNY Fredonia Williams Center

Thursday, March 19, 2020

Deadline for registration is Friday, March 6, 2020.

Name (1st attendee) _____ \$ _____

Farm Name _____

Address, City, State, Zip Code _____

Phone _____ E-mail _____

Are you enrolled in Lake Erie Regional Grape Program (LERGP)? Yes _____ No _____

REGISTRATION FEES	
LERGP Member 1 st attendee (includes all 3 sessions)	\$ 100.00
Additional attendee on same farm	\$ 35.00
Non- member	\$150.00

Additional Attendees:

	\$
	\$
	\$
	\$
	\$

*Please add a **\$25.00 late fee** for each reservation made after March 4, 2022

TOTAL \$ _____

Please make check payable to **LERGP (Lake Erie Regional Grape Program)** and mail to: Kate Robinson
 (US funds only) LERGP
 6592 W Main Rd
 Portland NY 14769

Name _____ NY DEC/PA PDA NUMBER _____

Name _____ NY DEC/PA PDA NUMBER _____

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<u>Date Ck. Rec'd</u>	<u>Amount</u>

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