



LERGP Crop Update December 5, 2024



Will our winter look like this?

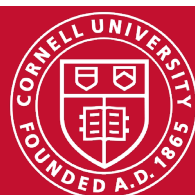
*A driver cautiously negotiates a "snow cut" along a Chautauqua County road during the winter of 1958.
Courtesy Fenton History Center*

Cornell Cooperative Extension
Lake Erie Regional Grape Program



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In this copy:

Reserve your LERGP 2025 Planning Calendar now! See options on [page 3](#)

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watch 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.

2025 LERGP Calendar: PLEASE READ and RESPOND

We are in the process of putting our 2025 LERGP Planning Calendar together, with updates and new content. We have provided our growers with this useful resource for 4 years now, and hope that you have found it beneficial to your operation.

However, the cost of mailing it has increased significantly, and we can no longer ship the calendar to everyone. We are addressing this by offering 2 options.

Option #1- Reserve your copy of the calendar by contacting me and then picking it up at the CLEREL office or the North East Lab when they are ready.

You must contact me by **Friday, December 20th, 2024**.

Kjr45@cornell.edu

716-792-2800 ext 201

Option #2- Reserve your copy with shipping to your home by sending a check for \$7.00 to **LERGP, 6592 W Main Rd. Portland, NY 14769**

If you are not an LERGP member, the calendar is available for purchase. The charge is \$25.00 plus \$7.00 shipping and handling. You can e-mail me or send your request to purchase in the mail.

The LERGP Planning calendar is a unique useful tool to guide you through the year, with reminders about viticulture and vineyard tasks, IPM scouting and spray timing and business deadlines. We hope that you choose to either have your copy mailed or stop by and see us to pick it up.

I look forward to hearing from you!

Katie



Business Management

Andrew Holden, Business Management Educator, Penn State University, LERGP

NY Grown & Certified Grant Now Available & Wine and Grape Classifieds

Grant Now Open

The New York Farm Viability Institute partnered with NYS Grown & Certified to offer a infrastructure and technology grant to New York Growers and processors. The grant is open now and available to view on the NYVI website.

Here is some important information for those considering applying:

All grantees must be members prior to reimbursement for their project. Grant applications will be more competitive if the applicant is already enrolled or actively in the process of becoming part of the NYS Grown & Certified program.

For Concord growers, this will mean to get in the NYS Grown & Certified Program:

- **NY Requirement:** 100% Grown in NY
- **Environmental: Every three years,** farms are required to participate/renew in the Agricultural Environmental Management (AEM) program, administered by their county Soil and Water Conservation district, with the completion of Tier 2 of the program (or higher). Grape growers may substitute the Vine Balance Program OR the NY Sustainable Winegrowing for AEM. Renewals must be submitted to the Department.

The grant sizes will range from \$20,000 to \$250,000 for infrastructure and technology projects. A 10% match (cash, grant, loan) will be required for all projects. There is \$1.7 million allotted for Western NY and Southern Tier counties.

Applications must be submitted by February 28, 2025.

More Info: <https://nyfvi.org/new-york-state-grown-certified-itrd-grant-program-2024copy/>

Please contact me with any questions or if you need assistance completing this grant application.

Wine & Grape Classifieds

If you are looking to sell or purchase wine and grape equipment, wine, or have a job posting for your operation, I encourage you to check out the New York Grape & Wine Classifieds. The website for the classifieds can be found [Here](#).

I took over running this site, so if you have any issues or need assistance using it, please let me know! A guide to how to make an account and post an ad can be found [here](#):

My contact information:

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Viticulture

Jennifer Russo, Viticulture Extension Specialist, LERGP

In the Vineyard

I hope that you all are staying warm during this blustery week. Most of our grape growing region has experienced heavy snowfall since Thanksgiving and it continues to make vineyard management difficult this week. We have been asked to document any damages to agricultural stakeholders' operations due to this snowstorm event. Please reach out to our offices if you have experienced damage. Cornell Cooperative Extension has our Eden website that has great resources [Click Here to go to Eden](#). Below is the information on All-hazards Preparedness & Response Education Program with valuable information and links to more. Please Stay Safe.



[All-hazards Preparedness & Response Education Program](#)

Winter Storms

Heavy snow, ice storms, and extreme cold can cause severe property damage and put human and animal lives at risk. Accurate predicting of winter storms can help people prepare by making sure they have adequate fuel, food, and other supplies on hand, but an unexpected change in wind direction can result in major snow accumulation in a localized region. In New York, this is often referred to as **lake-effect snow** because it generally involves geographic areas near Lake Erie or Lake Ontario.

Key terms:

- **Winter Storm Outlook**– storm conditions are possible in the next 2-5 days.
- **Winter Storm Watch**– storm conditions are possible within the next 36-48 hours.
- **Winter Weather Advisory**– weather conditions may be hazardous.
- **Winter Storm Warning**– severe winter conditions have begun or will begin within 24 hours.

Preparedness and Safety

- [Disaster Resource Center](#) – United States Department of Agriculture (USDA)
- [East Coast Winter Storms](#) climatological and forecasting data – Northeast Regional Climate Center
- [Electrical Power Outages](#) Safety tips to help you prepare for and cope with the sudden loss of power by the Centers for Disease Control and Prevention (CDC)
- [Preventing Carbon Monoxide Poisoning](#) guidance from the Centers for Disease Control and Prevention (CDC)
- [Readiness Checklist: Preparing for the Thaw \(PDF\)](#)– By Keith G. Tidball, PhD, Extension Disaster Education Network
- [Safe Operation of Emergency Generators \(PDF\)](#) – recommendations for safe residential and farm use of generators during power outage situations by Eric Hallman and Richard Peterson, Cornell Agricultural Health and Safety Program
- [Severe weather fire safety outreach materials](#) from the U.S. Fire Administration
- [Winter Safety](#) guidance from National Weather Service
- [Winter Safety Guide \(PDF\)](#) – CCE Warren County and the Warren County Disaster Preparedness Office
- [Winter Storm Safety](#) guidance from the Red Cross
- [Winter Weather on Ready.gov](#)
- [Winter Weather](#) safety and preparation resources from the Centers for Disease Control and Prevention

Barn and House Roofs

Snow loading, the downward force exerted on structures by the weight of accumulated snow, may result in damage to roofs or the actual collapse of the roof itself. In addition to snow accumulation there are other conditions that may contribute to snow loading problems and the potential for roof collapse:

1. Adding insulation to the roof without ventilation may cause condensation & eventual rotting of the rafters or deck
2. Re-roofing with three or more layers of shingles
3. Not correcting observable symptoms of structural problems

Additional Recommended Resources:

- [Cues and Cures of Attic Condensation and Roof Ice Damming Problems \(PDF\)](#) by Department of Design & Environmental Analysis, Cornell University
- [Dos and Don'ts of Barn Snow Removal \(PDF\)](#) by Curt Gooch and Sam Steinberg, Cornell University
- [Farmstead Recovery Checklist: Snow Load & Barn Collapse \(PDF\)](#) by NYS EDEN
- [Heavy Snow Loads \(PDF\)](#) by Curt A. Gooch, Cornell University

2025 Virtual Spray Program – What's Your Plan?

December 3, 2024, the Lake Erie Regional Grape Program held our annual Virtual Spray Program for growers across PA and NY. The event was well attended with 52 people tuned in to learn about the latest research to help make their spray program purchasing decisions for the 2025 growing season and earn pesticide recertification credits.

The program began with Bryan Hed, Research Technologist (Plant Pathology), Lake Erie Regional Grape Research and Extension Center. The presentation discussed disease research results and how the chemical classes of older materials compare to the newer materials. Bryan also talked about strategies regarding important sprays for disease management throughout the growing season or what to use under each phenological stage.

The second presentation was by Dave Combs, research support specialist in Dr. Katie Gold's Grape Pathology Laboratory at Cornell AgriTech, Cornell University. Dave presented his work on chemicals and biopesticides and what they are, what can they do, what can't they do, etc. He discussed research of different biopesticides and how they can be incorporated into an Integrated Pest Management Program may aid in resistance management and sustainability of chemicals available.

The final presentation of the meeting was given by Megan Luke, Lake Erie Regional Grape Program PSU Viticulture Educator. Megan presented on the EPA's Endangered Species Act regulation changes for pesticide management and discussed her sprayer calibration work and the importance of regular calibrations.

This meeting was intended to be interactive so that growers had the ability to ask questions concerning specific pest problems or potential problems in the 2025 season. Topics that were addressed included timing of spray applications at critical growth stages; pesticide options, efficacy; and resistance management. After the two and one-half hours of instruction, the attendees had 30 minutes for questions and answers, in total three hours for the course. The audience was engaged and had great questions for the presenters.

The survey at the end of the program asked questions to measure impacts, and one of the questions was: After today's program, will you be making changes to your spray program for 2025? There were three multiple choice options: Yes, No, and Maybe, I need more information. We had ~70% of the attendees complete the survey and no one chose "No" as an answer, indicating that they found the information provided helpful to their spray program and they would be making changes. Another survey question was: After seeing Dave Combs' presentation on biopesticide research, will you be adding any biopesticides into your spray program? And only three attendees decided that they would not be adding them. The rest of the respondents will be or, and 59% chose: Maybe, I am intrigued by how well they have performed over the past five years in the study. Regarding Megan's information on the EPA ESA's regulation changes, we asked: Do you feel confident of where to go to get Bulletins Live! Two information? We were pleased that 86% of the respondents learned where to find it and were confident that they would be prepared. I was watching the results in real time, and we were able to go back over where to find that information to ensure that respondents walked away prepared for the changes. The overall comments about this program were very positive and thankful for the information. We have received requests from those who heard about the program less than 12 hours after it occurred to be able to access the information without credits. **For those who wish to purchase the three-hour recording of the program, the PDFs of the presenter's slides with all of their information, and the form to help with EPA ESA's regulation changes for the nominal fee of \$20, please go to the [LERGP web-site](#), to the pay invoice/donation tab at bottom right, click pay invoice, enter your information and enter "Spray Program Materials" in the NOTE section.** Contact Kate Robinson with any questions at kjr45@cornell.edu.

We are very proud of this event and how well it was received, and extremely grateful for the presenters' knowledge and willingness to share it with our grower stakeholders.

Cornell University's Land-Grant mission—which encompasses research, education and extension programs—allows for the creation and dissemination of knowledge that improves lives for not only citizens of New York and in our case PA, but also the nation and people around the globe. [Our history](#) is rich with community partnerships to explore ideas and solve complex problems, taking our discoveries and insights to our stakeholders and using what we learn in the field back to our labs and classrooms on campus. Cornell CALS is home to several world-class outreach and extension programs that directly serve the public, sharing knowledge and best practices throughout New York and Pennsylvania. Read more about Cornell University's [Land-Grant commitment](#).

PA Update

Megan Luke, Penn State Extension Viticulture and Tree Fruit Educator

EPA Pesticide Use Updates Affecting Grape Production

Megan Luke MFL5873@psu.edu

Penn State Extension, Lake Erie Regional Grape Program

The EPA has released its final decision regarding herbicide use mitigation measures and changes to the re-registration and labeling process. In addition, the EPA has recently released a similar report for ALL insecticide registrations and registration reviews that are similar in scope and execution to the herbicide strategy. Several significant changes to pesticide labels are being rolled out beginning in late 2024. Specifically, there is a new requirement to check their Bulletins Live! 2 website before all herbicide and insecticide applications (when required by the label) and the requirement to include documented mitigation strategies when applying herbicides to reduce runoff and drift and/or if the farm operation is within a Pesticide Use Limitation Area (PULA), i.e., critical habitat for one or more endangered species.

These label changes are already going into effect: as pesticides come up for review and re-registration, they will be applied to the updated label. Growers can expect to see these requirements becoming more common each growing season, and they need to become accustomed to looking for the requirements and checking online sources as indicated.

List of active ingredients registered in grapes up for review and new labeling in 2025:

Acetamiprid (Insecticide)
Carbaryl (Insecticide)
Benzovidiflupyr (Fungicide)
Bacillus mycoides isolate J (Fungicide)
Dinotefuran (Insecticide)
Imidacloprid (Insecticide)
Iprodione (Fungicide)
Tebuconazole (Fungicide)
Pyrethrin & derivatives (Insecticide)
Tetraconazole (Fungicide)
Thiamethoxam (Insecticide)
Diuron (Herbicide)
Oxyfluorfen (Herbicide)

These changes to pesticide use requirements require additional record-keeping and research before every pesticide application.

Key takeaways:

- Checking the Bulletins Live! website is mandatory if listed on the pesticide label

- The EPA is working with the U.S. Fish and Wildlife Service to create maps of every endangered and protected species in the USA and their critical habitat.
 - Currently, 8 total regions in the USA are designated as Pesticide Use Limitation Areas (PULAs), and this number and the ranges of these designated areas are subject to change.
- Every new herbicide and every herbicide due for re-registration will have a mitigation requirement added to the label
 - Herbicides and insecticides deemed higher risk may require more mitigation tactics to be in place at the time of use
 - Farmers **MUST** demonstrate commensurate mitigation practices to the requirement on the label and/or the Bulletins Live! website (if located within a PULA) to **USE THE HERBICIDE**
- All current information on PULAs and required mitigation practices over and above those on the print label will be hosted **EXCLUSIVELY** on the website
- If your farming operation is within a PULA, you will be required to demonstrate compliance with mitigation measures as defined by the EPA
 - Mitigation measures are outlined in a special bulletin on the EPA's Bulletins Live! website and are required by law as an addendum to the pesticide label
 - Measures will include practices such as cover cropping, conservation tillage, drift reduction practices, contour farming, etc.
 - New buffer zone requirements will be implemented specific to PULA and the associated risk of the product in use
 - In some cases, specific measures **MUST** be employed and clearly described. In other cases, a farmer may demonstrate compliance by utilizing various methods specific to their operation **AND** recognized by the EPA as impactful.
- Methods of enforcing these measures have not been widely discussed, and at this time, compliance will be checked as part of routine state government agency inspections.

Full Herbicide strategy can be found here*: <https://www.regulations.gov/docket/EPA-HQ-OPP-2023-0365>

Full Insecticide strategy can be found here*: <https://www.regulations.gov/docket/EPA-HQ-OPP-2024-0299>

EPA's Bulletin Live! 2 website can be found here: <https://www.epa.gov/endangered-species/bulletins-live-two-view-bulletins>

EPA's Mitigation Menu website can be found here:

PSU Pesticide Education developed this standard recordkeeping form, which can be used by commercial/public applicators, private applicators, and operations covered by the WPS to keep records of all their pesticide applications. Farm operations already keep similar records as per state and federal requirements.

Pesticide Application Records Records must be maintained for three years and completed within 24 hours of the pesticide application.

Business/Organization Name:				B.U. #:		Grower Name:			
Date (M/D/Y)	Customer or Grower Name and Address	Applicator/ Technician Name	Brand Name of the Pesticide Used	EPA Registration #	Dosage or Rate Used	Amount of Pesticide Used	Site, Crop, or Commodity Treated ¹	Completion Time (AM/PM)	Notes
Start Time (AM/PM)	Application location if different than above	Applicator Certification # / Technician Registration #		Active Ingredient	Size of Treated Area ¹			Restricted Entry Interval ² (in hours)	
								AM PM	
AM PM									
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AM PM									
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¹Required for the production of an agricultural commodity but recommended for all applications.

²If customer falls under the provisions of the Worker Protection Standard, the restricted entry interval (REI) must be recorded.

In addition to these standard pesticide records, under new EPA label requirements, it will be prudent for farmers to keep additional records to maintain their compliance. Use of the mitigation menu and calculator are required.

Before EVERY pesticide application, you must read the entire pesticide label and check for requirements to access the Bulletins Live! website. Remember that these requirements may not be on the first pages of the label.

1. Determine if you are in a PULA using the Bulletins Live! tools. Print the Bulletins for each pesticide you plan to apply using the EPA Registration number on the label. This can be done up to 6 months in advance. Keep printed Bulletins with your application records.
2. Access the Mitigation Menu and follow the steps to determine if you are subject to mitigation requirements on your operation. If you are exempt, make a note of when you accessed the Mitigation Menu and the reason that you believe that you are exempt.
For example: *Accessed Mitigation Menu on 5/10/2025. Step 3 Exemption: The areas*

within 1,000 ft down-gradient from the treated farm/field are entirely managed areas (buildings and building perimeters).

3. If you are NOT exempt, you must document additional measures commensurate with the number of mitigation points required by the label. This information is on the Mitigation Menu website, scroll down to “Runoff/Erosion Mitigation Options”

You can use and print the Excel calculator to find your operation’s baseline points.

You can also use the provided online tables to calculate your points manually.

BE SURE TO PRINT OR INCLUDE THESE CALCULATIONS WITH YOUR PESTICIDE RECORDS

4. You can legally apply the pesticide if all mitigation requirements are met either through documented exemptions or meeting the required points OR mandates.

Documenting your mitigation strategies: Keep these files with your spray records

Long-Term Mitigations (Print out photos for difficult to document scenarios)

- Keep detailed maps of your operation(s)
 - Row orientation
 - Field slope
 - Managed areas
 - Soil types
 - Buildings
 - Conservation easements
 - Roads/access points
 - Water management (retention ponds, ditches, etc.)
 - Hedgerows/Wetlands/Riparian areas
- Spray equipment specifications
 - Precision components
 - Drift reduction technology
 - Nozzle type(s)
 - Calibration dates
 - Service records
 - Nozzle arrangement patterns

Short-Term Mitigations

- Reduction of max rate or spot treatment
 - Scouting forms and maps of problem pest areas
 - Use of precision technology (dates, % reduction)
- Tillage practices
- Cover cropping
 - Include dates, incorporation practice used, types of seed, receipts
- Irrigation
 - Type, map, rates

- Sensor use
- Inclusion of adjuvants to reduce drift
- Use of local weather records
 - KEEP A COPY OF THE MOST LOCAL FORECAST TO YOUR OPERATION WITH YOUR RECORDS FOR EACH SPRAY APPLICATION
 - 48-hours prior to application, print weather forecast



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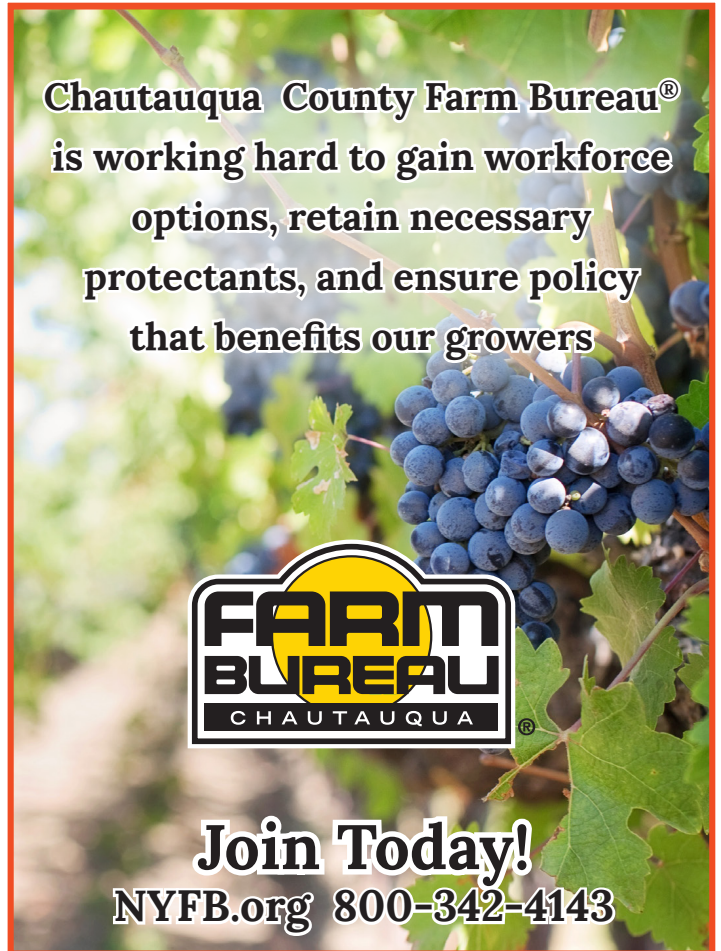
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Updates and Information

Kimberly Knappenberger, Extension Support Specialist, LERGP

NEWA

I hope you are all staying warm and safe!

It looks like we are having some troubles with a few of our stations, which is unfortunate since we are currently experiencing some interesting weather!

The majority of the stations are working well, but our East Ripley and Versailles stations both received new modems prior to the storm and worked briefly, but are currently not sending data. If you access them on NEWA you will find there is estimated data for both until we get them back up. We are heading into that time of year when there are problems with the station batteries due to the cold and overcast conditions. Please bear with us and remember that there will still be estimated data on NEWA which is better than nothing! Keep in mind that our stations do not measure precipitation accurately in cold weather. There are no melting mechanisms to turn the snow/ice into water, so the only precipitation that is recorded is when it is warmed by the sun or warmer temperatures and able to pass through the sensor as water.

Fredonia, NY

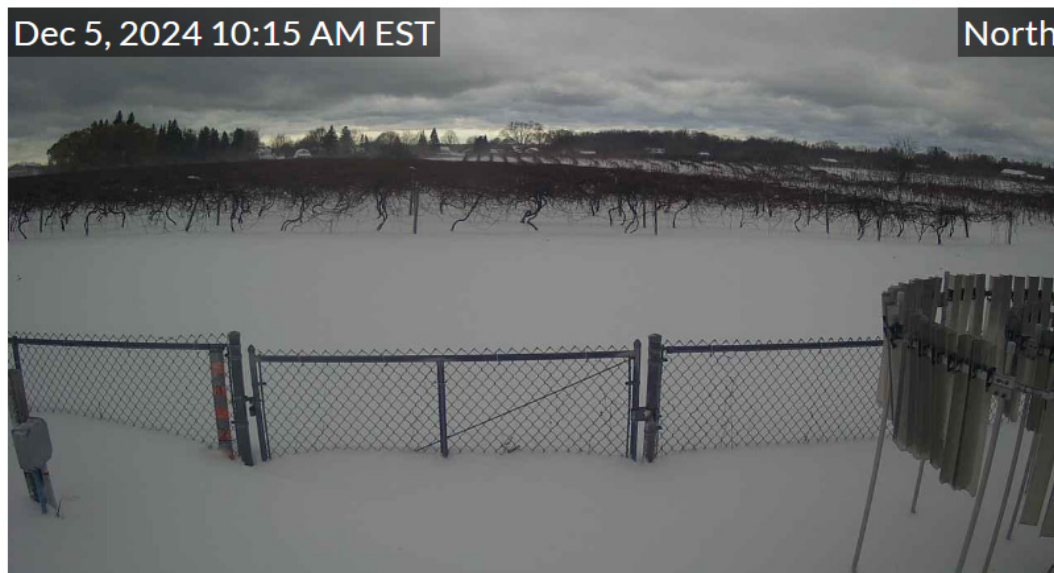


Figure 1 view from the Fredonia mesonet

The New York State Mesonet system stations are able to report liquid precipitation as well as snowfall. If you want to check those out, you can find the local Mesonet stations on NEWA (Fredonia, Brant, Buffalo and Burt) or go to <https://www.nysmesonet.org/> to see the system across the state.

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<https://cals.cornell.edu/cornell-cooperative-extension>

Efficient Vineyard:

<https://www.efficientvineyard.com/>

LERGP:

<https://lergp.cce.cornell.edu/>

<https://lergp.com/>

NYSIPM:

<https://cals.cornell.edu/new-york-state-integrated-pest-management>

Veraison to Harvest:

<https://cals.cornell.edu/viticulture-enology/research-extension/veraison-harvest>

