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Fruit Notes

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Cornell Cooperative Extension
Lake Ontario Fruit Program

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Volume 25 Issue 4 April 16, 2025

EPA Summary of Label Changes for Carbaryl Products

Summarized by Mike Basedow and Janet van Zoeren

Takeaway message: Any carbaryl used for pest management or thinning that was manufactured this year carries new label restrictions (including use limits) and requires that you visit the two **Bulletins Live!** Linked below in the Paragraph labeled “Endangered and Threatened Species Protection Requirements”, and follow all directions and restrictions contained in any applicable Bulletin(s) for the area where you are applying the product. Read below to learn more about that process.

There will still be ‘old’ Carbaryl available for sale for the next 12 months, so be sure to check your batch numbers and read the label specifically on the product you are using. Remember that new rules apply to new material while old rules apply to old material (even if they are in fact actually the same material).

For more in-depth information, read below.

The U.S. Environmental Protection Agency (EPA) is announcing that it has approved labels that implement measures required by the **National Marine Fisheries Service (NMFS) final biological opinion** at: <https://www.regulations.gov/document/EPA-HQ-OPP-2010-0230-0140> and is providing to the public the **U.S. Fish and Wildlife Service (FWS)) final biological opinion** on carbaryl at: <https://www.epa.gov/endangered-species/biological-opinions-available-public-comment-links-final-opinions-and-links>

Below is a summary of some of the label changes we will be seeing in our commonly used carbaryl products.

Consistent with 40 CFR 152.130(c) and EPA’s registration review actions, pesticide registrants may continue to distribute or sell these products under the previously approved labeling for 12 months from the date of EPA’s approval of the amended labeling.

Endangered and Threatened Species Protection Requirements

Before using these newly labeled carbaryl products, you must obtain any applicable Endangered Species Protection Bulletins (‘Bulletins’) within six months prior to or on the day of application. To obtain Bulletins, **go to Bulletins Live! Two (BLT)** at <https://www.epa.gov/pesticides/bulletins>. When using the newly labeled carbaryl, you must follow all directions and restrictions contained in any applicable Bulletin(s) for the area where you are applying the product, including any restrictions on application timing if applicable. It is a violation of Federal law to use this product in a manner inconsistent with its labeling, including this labeling instruction to follow all directions and restrictions contained in any applicable Bulletin(s). For general questions or technical help, call 1-844-447-3813, or email ESPP@epa.gov.”

Product Use Limits

New carbaryl labels will have reduced the maximum annual amount for pome fruits from 15 to 12 lbs. ai/acre/year. They will also reduce the maximum annual number of applications for pome fruits from 8 to 4.



Mandatory Spray Drift Management for Airblast Applications of New Carbaryl Labels

- Sprays must be directed into the canopy.
- During application, the Sustained Wind Speed, as defined by the National Weather Service (standard averaging period of 2 minutes), must register between 3 and 10 miles per hour.
- Winds speed and direction must be measured on location using a windsock or anemometer.
- Wind speed must be measured at the release height or higher, in an area free from obstructions such as trees, buildings, and farm equipment.
- User must turn off outward pointing nozzles at row ends and when spraying outer row.
- Do not apply during temperature inversions.
- For soil or foliar applications, do not apply by ground within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams or ephemeral streams when water is present, wetlands or natural ponds, estuaries, and commercial fish farm ponds).

Do Not Apply During Rain

Do not apply when soil in the area to be treated is saturated (if there is standing water on the field or if water can be squeezed from soil) or if NOAA/National Weather Service predicts a total rainfall of 1 inch or greater over the 48 hours following the day of application, only considering a 48-hour period when, at any point during the 48-hour period, the precipitation potential is 50% or greater. Detailed National Weather Service forecasts for local weather conditions should be obtained on-line at: www.weather.gov or by contacting your local National Weather Service Forecasting Office."

For Terrestrial Uses

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment, wash water, or rinsate.

Reporting Ecological Incidents

For guidance on reporting ecological incidents, including death, injury, or harm to plants and animals, including bees and other non-target insects, see EPA's Pesticide Incident Reporting website: <https://www.epa.gov/pesticide-incidents>.

Recordings Available from Last Month's In-Depth Workshop On Honeycrisp & Other High Value Varieties

For those who could not attend, the 2025 Cornell In-Depth Fruit School (March 19-20) "Honeycrisp & Other High Value Apple Cultivars" recordings are now available for purchase for \$25 per farm/organization. Businesses who attended the school last month will receive a hidden link to access the recordings and PDFs of the presentations free of charge.

Here is the link to "register" and purchase the four session videos from the conference:

<https://lof.cce.cornell.edu/event.php?id=2062>

This will be available until July 31.

Here is the link to the pdfs of all the presentations in a Box folder:

<https://cornell.app.box.com/file/1830346383817?s=3satzebcre58r7qo7blq63zuvsxexl4p>

Questions or problems? Contact Craig at cjk37@cornell.edu or 585-735-5448.

Tree Fruit & Small Fruit Twilight Meeting

April 24th, 2025 — 6:30PM—8:30PM

Location:

Blue Barn Cidery
928 Manitou Rd, Hilton, NY 14468



Pizza & soda provided by

1st of 4 Free Twilight Meetings

<https://lof.cce.cornell.edu/event.php?id=2064>

- This series of monthly meetings will examine seasonal changes in tree fruit and berry crops, demonstrate scouting techniques, and discuss integrative pest management solutions to maximize the health and productivity of berry and fruit plantings.
- Please bring pictures or descriptions of pests you are concerned about on your farm.
- 1.5 DEC credits will be offered in categories 1a, 10, and 22.
- No pre-registration required; event is free to attend.
- Meetings are held from 6:30PM – 8:30PM on the last Thursday of every month through July. Scan QR code for future meeting details.



Cornell Cooperative Extension | Harvest New York

Cornell Cooperative Extension
Lake Ontario Fruit Program



Join specialists Janet Van Zoeren, and Anya Osatuke for a conversation about fruit and berry phenology, pest management.

Pest Management in Apple Storages - Resources Available

Anna Wallis, NYSIPM

There are two new two resources that Mike Helms, Matt Frye, and Anna have prepared to guide decision-making for pest management in apple storages. They were directly in response to a request from Motts, but we felt they could be applied to all growers working with storages that **hold processor-owned fruit**.

These are now available on the NYSIPM website at the following links. PDFs of these documents are being finalized and will be linked at the bottom of each page.

1. **Pest Management in Packing Houses** – an overarching guide to pest management programs and selecting a 3rd party pest management company

<https://cals.cornell.edu/new-york-state-integrated-pest-management/outreach-education/fact-sheets/pest-management-packing-houses-and-storage-areas-fact-sheet>

2. **Certification Requirements for Pest Management in Apple Storages** – a FAQs document for certifications required to perform pest management in house or as a 3rd party.

<https://cals.cornell.edu/new-york-state-integrated-pest-management/outreach-education/fact-sheets/certification-requirements-pest-management-apple-storages-fact-sheet>

We have had several farms follow up requesting information on trainings for a Category 7F certification.

- Individuals who are interested must first be eligible to sit for the 7F exam. To do this, they must fit one of the **eligibility requirements**: <https://dec.ny.gov/regulatory/permits-licenses/chemical-petroleum-lng-pesticide-permits/pesticide-applicator-technician-guidance/certification#:~:text=Eligibility%20Requirements&text=three%20years%20of%20verifiable%20full,a%20corresponding%20private%20category%3B%20or>
- One of the most common pathways is to first become a certified technician and then graduate to certified applicator. To become a technician, often individuals take a 30-hour training course. This is different than the training that Janet offers.
- According to a **NYS PAD course search**: (<https://extapps.dec.ny.gov/nyspad/find?0&tab=COURSES>), there is currently already one approved 30-hour course for 7F. It's an online, self-paced course through <https://pested.com/>. We checked and the cost is \$350 plus the cost of the Core and category manuals through the Cornell Store (\$98 plus shipping).
- This is probably the most efficient way for an individual to obtain a license. Please let Anna know if you have additional questions: aeu232@cornell.edu

PA Farm Seeks Orchard Manager

R & L Orchard Co. in Adams County, PA is seeking to fill a senior management position.

R & L Orchard Co. grows fresh and processing apples for the wholesale market. We are looking to fill the position of Orchard Manager, which role directs the pesticide spray program, pruning program, thinning, harvest schedule, planting, etc. We do require prior farm management experience - this would not be an appropriate position for a newly graduated student who has not yet had practical experience in farm management. The job listing can be found here:

<https://www.indeed.com/viewjob?jk=c7133e875f7796ff>

Questions? Contact Eleanor Rice, President, R & L Orchard Co., eleanor.rice@rlorchard.com, 717-357-8436.

Invitation to Participate in a Survey on Weed Management in Perennial Specialty Crops

Lynn Sosnoskie, Cornell AgriTech

A team of Weed Scientists and Sociologists are leading an SCRI planning grant that is conducting a short and anonymous survey about weed management technology in perennial specialty crops (i.e., tree fruits, tree nuts, grapes, and berries).

Effective weed control is essential for sustainable production and high-quality yields, but growers face several challenges, including limited herbicide availability, herbicide resistance, changing regulations, safety concerns, and the high cost and reduced availability of labor for hand weeding.

Although new weed control technologies (such as autonomous robots, precision sprayers, and electric weeders) have been developed, many growers may not be aware of these innovations or their effectiveness. Additionally, university scientists require more information on grower interest and willingness to adopt new technologies to guide future research.

The goals of this survey are to:

1. Identify what weed control tools and technologies growers know about/are be interested in.
2. Understand the factors that will drive or hinder the adoption of these technologies.

We invite you and your community members/stakeholders to participate in our survey to help us understand your experiences and interests in adopting new weed control technologies.

Your input will be invaluable in shaping future research and guiding the development of solutions that benefit New York state, the Great Lakes Fruit Production Region, and the US at large.

Thank you for your time and participation and support! https://iastate.qualtrics.com/jfe/form/SV_eqzMrFKtlcDjjgO

The survey is being administered out of Iowa State University and has been IRB approved.

Unlocking Opportunities in Farm to School – How Harvest NY Can Support Your Business

Cheryl Bilinski, CCE Harvest NY

Monday, May 5th, 12:00 - 1:00 PM – *For Value-Added Producers, Distributors, and Manufacturers*

Wednesday, May 7th, 6:00 - 7:00 PM – *For Growers, Producers, and Farmers*

Join us for two targeted online training courses designed to help producers, distributors, manufacturers, and growers tap into the school food market and expand their reach. Whether you're just starting or already selling to schools, the Harvest NY Team will guide you through the necessary steps to grow your presence in the school food market. Each course will be tailored to the specific needs of the audience, but anyone is welcome to attend either session based on interests and business goals!

Harvest NY Farm to School Procurements Specialists will walk participants through aspects of the Farm to School market. This online training will:

- Introduce you to the Harvest NY team and the resources we provide.
- Provide you with a high-level overview of the Child Nutrition market, which is regulated at the federal, state, and municipal level. Understanding the nuances of this market is critical to understanding how to build a successful business relationship with them.
- Review the [30% NY Food Product Initiative](#), including the paperwork and requirements and how Harvest NY supports this process for you.
- Learn what School Food Authorities (SFAs-the school food buyers) need and how your products work in a school setting.
- Discover ways to expand your reach within school food programs and grow your presence.

Register here: <https://cornell.zoom.us/meeting/register/OqukD9JkQZqV22qV6CRaqA#/registration>

Growing the Bottom Line:

Agricultural Growth through
Energy Efficiency and
Economic Development

National Grid invests in New York agriculture.

- Visited more than 500 agribusiness sites (growing farms, vineyards, greenhouses, dairies, chicken coops, hog farms, etc.) across upstate New York
- Provided more than \$3 million in economic-development grants
- Supported more than 1,000 energy-efficiency measures through incentives since 2003

How our energy-efficiency and economic-development programs can benefit you.

- Lower energy and operating costs
- Increased profit margins
- Reduced maintenance
- Improved crop production and vitality



nationalgrid

Learn more by calling **800-787-1706** or at ngrid.com/agriculture
Jay Snyder - 716-517-5515

FOR QUESTIONS OR CONCERNS? EMAIL: FCRITZER@UGA.EDU

For more information on specific programs, see the documents linked below:

[2025 Eco Dev AgriBusiness Productivity.pdf](#)

[2025 Eco Dev 3 phase Power Incentive.pdf](#)

[Copy of CEA CEX App Tool_ Rev1_040325.xlsx](#)

MSU Spring Spray Drone Fly-in

Refine Your Spray Drone Skills at Michigan's Premier Hands-On Workshop

Back for its second year, the 2025 MSU Spring Spray Drone Fly-in is an all-day educational event designed for both current and aspiring spray drone operators. This event combines expert-led discussions with hands-on demonstrations, providing valuable insights into optimizing drone-based chemical applications.

- Morning Education Sessions: Learn from industry experts about best practices, regulations, and the latest research on spray drone applications in agriculture and related industries. Speakers will include:
 - **Mark Ledebuhr** (Application Insight LLC) – Fundamentals of applications from drones
 - **Mike Reinke** (MSU Extension) – Updates on MSU spray drone research
 - **Michigan Department of Agriculture and Rural Development (MDARD)** – Current state regulations for aerial applicators
 - **Kirk Babcock** (OnPoint Applications Group) and **Bryan Hammis** (Flying Acres LLC) – Current federal regulations and industry support opportunities for aerial applicators
- Afternoon Demonstrations & Hands-On Testing:
 - Watch real-time swath testing and verification demonstrations
 - Certified drone pilots can bring their own spray drones to test swath settings using advanced collection technologies

Where: Michigan State University Saginaw Valley Research and Extension Center (3775 S. Reese Road, Frankenmuth, MI 48734)

When: 29 April 2025. Doors open at 8:00am with presentations starting at 9:00am. Lunch will be provided.

Cost: \$50 per person.

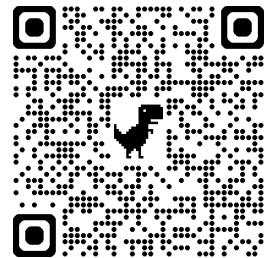
Registration:

<https://events.anr.msu.edu/event.cfm?eventID=111B7DC1856FDDC394C23D91B1A5BA8935FBC83112B148B0355D435EAE632A2>

Michigan RUP credits available: aerial, commercial and private core, 1A, 1B, 1C Anyone wishing to test their own drone settings will be required to provide proof of certifications prior to the event (Part 107 license and 44807 exemptions if over 55lb).

If you have any questions, reach out to Mike Reinke, reinkem3@msu.edu or 573-239-0808.

Thank you to the Fly-in Sponsors



Wolverine Drone Solutions

Quantum Autonomous Services

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Sutton Drone Solutions

Atticus LLC

Michigan Agribusiness Association

Mark Your Calendar!

Meeting Title	Heat Illness Prevention Webinar for the Hispanic Workforce – conducted in SPANISH only
Dates	April 23
Time	12-1 PM
Location	Webinar
Cost	Free, brought to you by CCE Ag Workforce Development
Brief Description of Meeting/Registration	Your workforce can join our webinar on heat illness prevention, designed specifically for Hispanic farm employees. With potential changes in New York State laws, it is essential to understand best practices for maintaining a safe and healthy work environment. Learn key strategies to prevent heat-related illnesses and keep everyone protected in the field. The webinar will be hosted by María Bess Lewis from Cornell Agricultural Workforce Development and Anna Meyerhoff from the New York Center for Agricultural Medicine and Health (NYCAMH). Topics Covered in the Webinar: • How to recognize and prevent heat-related illnesses • The importance of hydration and what drinks to avoid • How to safely adapt to heat exposure (acclimatization) • Rest and shade: key factors in preventing heat stress • Proper clothing for working in high temperatures • Strategies to minimize heat risks  Date: April 23 -  Time: 12:00-1:00 PM EST  Zoom Link: https://cornell.zoom.us/j/95344481427?pwd=BX4WpoJTF3L82alQeyLBPI0DNkmn9e.1 This webinar will be conducted ONLY IN SPANISH. Don't let your workforce miss it! Translated below : Cornell Agricultural Workforce y NYCAMH organizarán conjuntamente un seminario web sobre prevención de enfermedades causadas por el calor, presentado en español para la fuerza laboral hispana el 23 de abril.

Meeting Title	Tree Fruit and Berry Twilight Meeting
Dates	April 24
Time	6:30-8:30pm
Location	Blue Barn Cidery, 928 Manitou Rd, Hilton, NY 14468
Cost	Free
Brief Description of Meeting/Registration	This series of monthly meetings will examine seasonal changes in tree fruit and berry crops, demonstrate scouting techniques, and discuss integrative pest management solutions to maximize the health and productivity of berry and fruit plantings. 1.5 DEC credits will be offered in categories 1a, 10, and 22. https://lof.cce.cornell.edu/event.php?id=2064

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Cornell Cooperative Extension Lake
Ontario Fruit Program 12690 Rt. 31
Albion, NY 14411

Fruit Notes

Fruit Specialists



Craig Kahlke | 585-735-5448 | cjk37@cornell.edu
Team Leader, Fruit Quality Management

Areas of Interest: Fruit Quality and factors that affect fruit quality before, during, and after storage.

Crops: Blueberries, Raspberries / Blackberries, Strawberries, Apples, Apricots, Cherries, Nectarines, Peaches, Pears, Plums



Mario Miranda Sazo | 315-719-1318 | mrm67@cornell.edu
Cultural Practices

Crops: Blueberries, Raspberries / Blackberries, Strawberries, Apples, Apricots, Asian Pears, Cherries, Currants, Gooseberries, Nectarines, Peaches, Pears, Plums



Janet van Zoeren | 585-797-8368 | jev67@cornell.edu
Integrated Pest Management (IPM)

Areas of Interest: IPM of tree fruit and berry pests, biological control, pollinators.

Crops: Blueberries, Raspberries / Blackberries, Strawberries, Apples, Apricots, Asian Pears, Cherries, Currants, Nectarines,



Bonalyn Nelsen | 315-980-9926 | bjn2@cornell.edu
Business Management

Areas of Interest: Fruit Farm Business Management, Farm Labor & Regulations, and Evaluation of ROI of New Technologies

Crops: Blueberries, Raspberries / Blackberries, Strawberries, Apples, Apricots, Cherries, Nectarines, Peaches, Pears, Plums

For more information about our program visit us at lof.cce.cornell.edu