



A partnership between Cornell University and the CCE Associations in these five counties: Monroe, Niagara, Orleans, Oswego & Wayne

# Fruit Notes

YOUR TRUSTED SOURCE FOR RESEARCH-BASED KNOWLEDGE

Cornell Cooperative Extension  
Lake Ontario Fruit Program

Volume 21 Issue 11 July 28, 2021

## 2021 LOF Summer Fruit Tour Thursday, August 12<sup>th</sup>, 2021

Morgan Farms Stop 1 – Warner Road Farm, SW of 3905 Warner Rd, Marion, NY 14505

Morgan Farms Stop 2 – Ball Road Farm, NW of 3990 Ball Rd, Marion, NY 14505

Morgan Farms Stop 3 – Cory Corners Road Farm, East of 4168 Cory Corners Rd, Marion, NY 14505

Stop 4 – Lunch at B. Foreman Park, 4507 Lake Rd, Williamson, NY 14589

Stop 5 - Hermetet Fruit Farm, 7017 Bear Swamp Rd, Williamson, NY 14589

**Note:** Pre-registration will be required for attendance to the tour. It is especially important for lunch counts/seating, and contact tracing. Walk-ins will not be accepted. The registration link is below. Also see “*Cornell Outdoor Meeting Policy*” below.

### Pre-registration required at:

[https://lof.cce.cornell.edu/event\\_preregistration\\_new.php?id=1548](https://lof.cce.cornell.edu/event_preregistration_new.php?id=1548)

**NOTE:** If you would rather call in to register yourself and others from your organization, please call Kim Hazel at 585-798-4265, ext 26, or email [krh5@cornell.edu](mailto:krh5@cornell.edu).

**Please dress for the weather and walking and bring sunscreen, hats, umbrellas, chairs, etc.**

2.5 hrs of DEC recertification credits will be available for the tour. Bring your DEC Pesticide Applicator’s License. If you need DEC credits, please arrive on time to sign the roster and plan to stay all day. DEC will not allow partial credit.

## Follow Cornell Fruit Event Signs!

**Morgan Farms, Stops 1-3– Farm – hosts Ben Nevlezer, and Magdaleno Cervantes, Morgan Farms. Stop Leader- Mark Wiltberger.**

Stop 1 -Warner Road Farm, SW of 3905 Warner Rd, Marion, NY 14505

**8:00 Registration/check-in & DEC recertification credit sign-in. Please bring your DEC ID card!**

**8:30 Welcome – Craig Kahlke, LOF Team Leader.**

**8:35 Introduction to Morgan Farms – Mark Wiltberger.** Mark will describe the background of the Morgan Farms business, and the three locations we will be visiting today. He will introduce the two farm managers, Ben Nevlezer and Magdaleno Cervantes.



Orchard Walk – Mark Wiltberger. At each of the locations, we will visit process and fresh blocks, of different ages and tree planting densities. Mark will review the history and performance of each block, and discuss “lessons learned” with Ben and Magdaleno.

**8:40 Establishment of the Warner Road Farm Site – Mark Wiltberger.** Overview of the establishment of the Warner Road Farm site.

**8:45 Idared / Crispin Block – Mark Wiltberger.** Overview of the Idared / Crispin block with Ben Nevlezer and Magdaleno Cervantes.

**8:50 Experiences with Fire Blight in Mature Orchards the Past Few Seasons – Janet van Zoeren, Ben Nevlezer, Isabella Yannuzzi and Dr. Kerik Cox (Cornell University).** In this presentation, Janet will introduce a regional context of how Fire Blight has shown up this season. Kerik and Isabella will follow with recommendations for the rest of this season and beyond, including an update on Strep resistance.

**9:15 Scarf Skin management – Dr. Kerik Cox and David Strickland (Cornell University).** A brief update on PGR research for managing scarf skin during rainy seasons in susceptible varieties.

**9:20 Fuji Block – Mark Wiltberger.** Overview of the Fuji block with Ben Nevlezer and Magdaleno Cervantes.

**9:25 NY2 (RubyFrost™) Block – Mark Wiltberger.** Overview of the RubyFrost™ block with Ben Nevlezer and Magdaleno Cervantes.

**9:30 Masterclass Program – Nicole Waters, Cornell University.** With Magdaleno Cervantes. Nicole will discuss this class available for LOF region farms for training employees for leadership positions.

**9:35 Travel to Morgan Farms Stop 2 – Ball Road Farm, NW of 3990 Ball Road (5 minutes).**

#### **Morgan Farms Stop 2 – Ball Road Farm**

**10:00 Overview of the Ball Road Farm Site – Mark Wiltberger.**

**10:05 Taylor Rome / Jonagold Block – Mark Wiltberger.** Overview of the Taylor Rome / Jonagold block with Ben Nevlezer and Magdaleno Cervantes.

**10:10 NY674 (AutumnCrisp™) Block – Mark Wiltberger.** Overview of the NY674 (AutumnCrisp™) block with Ben Nevlezer and Magdaleno Cervantes.

**10:15 New Planting – Golden Delicious High-Density Processing Block – Mark Wiltberger.** Mark will review the specifications of this high-density 12'x3' processing block and some of the investment costs of establishment.

**10:25 Designing Processing Orchards for the Future – Dr. Terence Robinson, Cornell University.** Terence will discuss the optimal design of processing orchards for productivity and profit.

**10:45 Travel to Morgan Farms Stop 3 – Cory Corners Road Farm, East Planting (“Siberia”) (10 minutes).**

## **Morgan Farms Stop 3 – Cory Corners Road Farm**

**11:15 Overview of the Cory Corners Road Farm Site (“Siberia”) – Mark Wiltberger (5 minutes).**

**11:20 Underground Contributions to Declining Blocks in High-Density Orchards – Dr. Awais Khan, Cornell University.** In a newly funded USDA-SARE project, we will characterize the root system and viruses of two major rootstocks in high density orchard systems in three regions of New York State. Results will be critically analyzed to circumscribe the role of roots in the rapid decline and identify management solutions in the short, medium, and long term.

**11:40 Travel to B. Foreman Park, 4507 Lake Rd, Williamson, NY 14589. (20 minutes).**

## **Stop 4 – Lunch Stop – B. Foreman Park**

**12:00 Lunch and Sponsor visits at B. Foreman Park.**

**1:30 Travel to Hermetet Fruit Farm, 7017 Bear Swamp Rd, Williamson. (10 minutes).**

## **Stop 5 – Hermetet Fruit Farm- host Mark Hermetet. Stop Leader-Mario Miranda Sazo.**

**2:00 Fine-tuning the fruit growth rate model and new alternatives for chemical thinning with Metamitron and ACC – Dr. Terence Robinson, Dr. Luis Gonzalez (Cornell University), Poliana Francescatto (Valent Biosciences), and Mario Miranda Sazo.**

**2:15 ATS sprays applied at bloom/guided by the Pollen Tube Growth Model (PTGM) and the use of ACC as a rescue treatment on a Mature Gala block – Dr. Terence Robinson, Mario Miranda Sazo, and Mark Hermetet.**

**2:30 Establishing, Training, and Nutrient Management of Two-year old Honeycrisp and NY-1 trees on B.9. Trees produced by grower host and planted at 2x11ft.** In addition, there will be a short discussion and demonstration about the use of a Huron platform and the development of an auto-steering system in collaboration with Ridge Automation LLC. – **Dr. Terence Robinson, Dr. Lailiang Cheng, Mario Miranda Sazo, and Mark Hermetet.**

**2:45 Transitioning from fresh to processing blocks with Macoun, AceyMac, and Red Delicious on M.9 rootstock (5x13ft plantings). – Dr. Terence Robinson, Mario Miranda Sazo, Mark Wiltberger, and Mark Hermetet.**

**3:00 Electric weeders and precision sprayers – the future of orchard weed management? – Janet van Zoeren.**

**3:30 Wrap up tour, Receive DEC Certificates.**

## **Cornell Outdoor Meeting Policy**

Based on the updated guidance from New York State Forward and the CDC due to improving COVID-19 infection and vaccination rates, Director Watkins is supportive of revising the CCE regional Ag team outdoor field meeting (including open-air, well ventilated barns) guidelines at this time. Effective June 1, 2021, the size limit for field meetings will be increased from 25 to 500 consistent w/ the NYS and CDC guidelines. Masks are only required for unvaccinated attendees, and they also need to maintain 6' social distance during events. The "honor system" will be used for determining who needs to wear masks and maintain social distance. All attendees will be required to sign in and provide contact information should follow up contact tracing be necessary. There are no restrictions on the time limit for events and food may be provided.

# Thank You to Our 2021 Summer Fruit Tour Sponsors!

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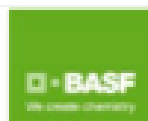


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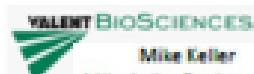


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## An Update on Box Tree Moth, a Pest of Boxwoods

Dan Gilrein, Extension Entomologist, CCE - Suffolk County

Box tree moth, native to East Asia, was found in Europe in 2006 where it has become a destructive pest defoliating and killing boxwoods. It was found near Toronto, Canada in 2018 and has spread to nearby areas but has not yet been found infesting US-grown boxwoods. So far only boxwoods have been affected in Europe and Canada, though some references note other hosts. Coming on the heels of boxwood blight, this new pest is especially unwelcome for one of our most popular and valued landscape plants.

On May 28, 2021, USDA-APHIS confirmed box tree moth (*Cydalima perspectalis*) for the first time in the continental US imported on nursery stock from Ontario, Canada. The plants were shipped to the US between August 2020 and April 2021 to 7 states including NY and have since been more widely distributed. Insects were found on plants in Michigan, Connecticut and South Carolina but so far not in NY. The US has halted all imports of potential host plants (*Buxus* spp., *Euonymus* spp., *Ilex* spp.) from Canada. Federal and NYS Dept of Agriculture and Markets officials are tracing and destroying these imported plants and following up with pheromone trapping and surveys.

Box tree moth adults can be detected with commercially available pheromone traps (e.g., Unitrap) and box tree moth pheromone lures. Inexpensive commercial carton traps work well but the standard opening for moths to enter may need to be enlarged for this species. The green caterpillars, webbing they create and leaf chewing damage in boxwoods are also distinctive. Jen Llewellyn with the Ontario Dept of Agriculture has posted some photos and information very helpful for identifying and monitoring box tree moth and infestations at <https://tinyurl.com/BTMEarly>. Traps are placed

about 3' above ground prior to and when moths are active; standard septa lures are replaced every 4 – 6 weeks or as recommended. Moths were first seen in Canada on June 13 this year and a second flight is expected in late summer. Notify Cornell University's Insect Diagnostic Lab (<http://idl.entomology.cornell.edu>), or NYS Dept of Agriculture and Markets ([plants@agriculture.ny.gov](mailto:plants@agriculture.ny.gov)) of any suspect sightings of moths, caterpillars, and/or plant damage. In addition, please notify your local CCE office's Home Horticulture/Master Gardener. Include clear photos if possible. With early detection box tree moth can be controlled. In Europe and Canada *Bacillus thuringiensis*-based products are being used but many other options are also likely to be effective.

### References

- CCE Suffolk Boxwood Guide.  
<https://tinyurl.com/CCEBoxGuide>
- Del Pozo-Valdivia, A. et al. 2021. Box Tree Moth. Virginia Cooperative Extension Pest Alert. Accessed on-line 6-19-2021 at <https://resources.ext.vt.edu/contentdetail?contentid=2680>
- Frank, S. et al. 2021. Insecticide Options for Box Tree Moth Management <https://ecoipm.org/wp-content/uploads/Insecticides-to-Consider-for-Box-Tree-Moth-Management.pdf>
- USDA APHIS PPQ Box Tree Moth Pest Alert. [https://www.aphis.usda.gov/publications/plant\\_health/alert-box-tree-moth.pdf](https://www.aphis.usda.gov/publications/plant_health/alert-box-tree-moth.pdf)
- USDA Confirms Box Tree Moth and Takes Action to Contain and Eradicate the Pest. USDA Program Update May 28, 2021 <https://tinyurl.com/BTMMay282021>
- USDA APHIS. Box Tree Moth. [https://www.aphis.usda.gov/aphis/ourfocus/planthealth/plant-pest-and-disease-programs/pests-and-diseases/sa\\_insects/box-tree-moth](https://www.aphis.usda.gov/aphis/ourfocus/planthealth/plant-pest-and-disease-programs/pests-and-diseases/sa_insects/box-tree-moth) July 2021

# Why Are My Trees Growing So Poorly?

Webinar- Monday, August 2<sup>nd</sup>, 3-4 PM

Mike Basedow & Janet van Zoeren

## 1.5 DEC Credits Available

We have been increasingly noticing tree collapse in New York orchards over the past several years. There are a number of causal factors, both biotic and abiotic, that can cause poor tree growth and death. In this webinar, Cornell and Penn State experts will provide a quick summary of some of the common agents

of tree collapse typical of northeast apple orchards.

Hosted jointly by CCE-ENYCHP and CCE-LOFP.

There is no fee to attend, however you must register online at the following link by Friday, July 30th: Click here to register:

<https://cornell.zoom.us/meeting/register/tJ0rcu-grD4tG9PE7SyMWxXfVpuFqLKDkCvjo>

### Agenda:

2:45 – 3:05 - Credit Check in and Introduction - Mike Basedow

3:05 – 3:15 - Boring insects and tree decline- Janet van Zoeren

3:15 – 3:25 - Nematodes and their association with apple replant – Dr. Kerik Cox

3:25 – 3:35 - Could viruses be involved in poor tree growth? - Dr. Marc Fuchs

3:35 – 3:45 - Apple tree decline case studies and quality - Dan Donahue

3:45 – 3:55 - Investigating causes of apple tree decline in Pennsylvania – Dr. Kari Peter

3:55 – 4:05 - Abiotic issues, such as drought and cold damage – Dr. Terence Robinson

4:05 – 4:30 - Questions and discussion

**1.5 DEC credits are available for this online meeting in categories 1a, 3a, 10, 22, and 25. In order to receive credits, you must complete the following:**

- Enter your NYSDEC applicator ID number into the registration field when you register for the meeting. (Attendees from Vermont, Massachusetts, and Connecticut may also enter in their ID's to receive credits through their state reciprocity agreements.)
- Each employee seeking credit must register separately, and watch from their own device to receive credit.
- Send a photocopy of your applicator ID to Mike Basedow at [mrb254@cornell.edu](mailto:mrb254@cornell.edu) or (518) 410-6823 by noon on August 2nd.
- Log onto the meeting by 2:45 for a virtual roll call so we can ensure your screen name matches the applicator ID we have on file.
- Attend the meeting in its entirety.
- Using in-session polling, answer occasional poll questions to verify that you are actively engaged throughout the course of the session.
- Questions on this process may be directed to Mike Basedow at [mrb254@cornell.edu](mailto:mrb254@cornell.edu) or to (518) 410-6823.

## Hard Cider Summer Tour: August 25<sup>th</sup> in the Capital Region

Please join us on **August 25** for the return of the Hard Cider Summer Educational Tour! This program is designed for commercial apple and cider producers.

### AGENDA

**9:30 AM:** Stop one: [Samascott Orchards](#)

5 Sunset Ave. Kinderhook, NY 12106

Visit with Ron and Bryan Samascott to learn about their cider apple production, including new plantings of cider varieties, older varieties that have a revived market with cider producers, and their multi-generational diversified farm.

Travel time: 45 minutes

**12:00 PM:** Stop two: [Indian Ladder Farms](#)

342 Altamont Road, Altamont, NY 12009

Our lunch stop. Afterwards, we'll hear from Dietrich Gehring and Chris Carballeira about Indian Ladder's apple and cider production.

Travel time: 25 minutes

**3:30 PM:** Stop three: [Nine Pin](#)

929 Broadway, Albany, NY 12207

Our final stop for the day is an urban cidery in the heart of Albany. We'll learn from Alejandro

del Peral about Nine Pin's business growth, fermentation practices, and marketing approaches.

**REGISTER HERE:** [bit.ly/HardCiderTour2021](https://bit.ly/HardCiderTour2021)

Lunch will be included during the stop at Indian Ladder.

A complimentary educational cider tasting will take place at Nine Pin.

Register by **August 19** to be guaranteed lunch and cider tasting.

Participants will use their personal vehicles to get from location to location and can join us for whichever stops they are interested in seeing. Suggested registration fee to offset administrative costs: \$5 per person. We greatly appreciate your contribution to this event. If you have any questions, please contact Gregory Peck at [gmp32@cornell.edu](mailto:gmp32@cornell.edu)

Sponsored by the [Cornell Hard Cider Program Work Team](#), [the New York Cider Association](#), and [CCE's Eastern NY Commercial Horticulture Program](#).

## Champlain Valley Orchard Field Afternoon

Chazy Orchards

Chanzy, NY 12921

**Thursday, August 19, 2021**

1:00pm - 5:00pm

Now that we are able to host field meetings again, we invite you to the Champlain Valley to view some of our current orchard field trials, listen to talks and discuss your management concerns with many of the scientists from Cornell AgriTech, and to reconnect in person with other growers from around Eastern New York.

*1.5 DEC credits are available in categories 1A, 3A, 10, and 22.* There is no fee to attend, however pre-registration by August 16<sup>th</sup> is required so that we can have a headcount of who is coming. Registration and a detailed tour agenda can be found at the following link:

[https://enych.cce.cornell.edu/event\\_preregistration\\_new.php?id=1556](https://enych.cce.cornell.edu/event_preregistration_new.php?id=1556)

Please email ([mrb254@cornell.edu](mailto:mrb254@cornell.edu)) or call (518 410 6823) Mike Basedow with any questions.

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Contact Us

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# ***Fruit Notes***

***YOUR TRUSTED SOURCE FOR RESEARCH-BASED KNOWLEDGE***

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## **Fruit Specialists**



Craig Kahlke | 585-735-5448 | [cjk37@cornell.edu](mailto: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](mailto: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](mailto:jev67@cornell.edu)  
Integrated Pest Management (IPM)

**Areas of Interest:** IPM of tree fruit and berry pests, biological control, and pollinators.  
**Crops:** Blueberries, Raspberries / Blackberries, Strawberries, Apples, Apricots, Asian Pears, Cherries, Currants, Nectarines, Peaches, Pears, Plum



Mark Wiltberger | 315-272-8530 | [mw883@cornell.edu](mailto:mw883@cornell.edu)  
Business Management

**Crops:** Apples, Cherries, Nectarines, Peaches, Pears, Plums

For more information about our program visit us at [lof.cce.cornell.edu](http://lof.cce.cornell.edu)