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Fruit Notes

YOUR TRUSTED SOURCE FOR RESEARCH-BASED KNOWLEDGE

Cornell Cooperative Extension
Lake Ontario Fruit Program

Volume 23 Issue 1 January 19, 2023

Western NY Fruit Conference

“State of the Industry”

February 27-28

RIT Inn & Conference Center, Henrietta, NY

Brought to you by Cornell Cooperative Extension’s Lake Ontario Fruit Program

As you can see in the below tentative agenda, most of the program is complete. We’re excited to bring you this 1 ½ day conference! There will not be an online option for attendees. The conference will begin with lunch on Feb 27, followed by two afternoon sessions with a break in between, which are included with your registration fee. An optional cocktail hour (cash bar) and banquet dinner (separate pre-registration required) will be among the choices attendees have. Folks can choose to stay in the host hotel or nearby ones, or commute. The RIT Inn & Conference Center is conveniently located away from downtown, so parking (free) and optional dinner on your own choices will be less restrictive. Day 2 will be a full day program that will include 4 educational sessions, along with breakfast, lunch, and 2 breaks, which are all included with your registration fee. There are ala carte options of only attending day 1 (half day) or day 2 (full day). In addition, there are discounts for LOF enrollees and Mott’s growers.

The RIT Inn & Conference Center is offering a block of rooms for our conference at the discounted rate of \$139.00 per night.

Individuals are requested to contact the Hotel directly at 585-359-1800 or visit their website at: <https://www.rit.edu/ritinn/rooms> for reservations.

The group code for the discounted rate is: 230227TFBG Please book your rooms early.

DEC credits will be available in the 2 Pest Management sessions on Tuesday morning. Certified Crop Advisor continuing education credits should be available for all sessions.

Registration will open soon at: <https://lof.cce.cornell.edu/event.php?id=1729>

There are just a few exhibitor tables still available! See https://lof.cce.cornell.edu/sponsorship_new.php



Thanks to Our Meeting Sponsors!!!!

Banquet Dinner Sponsor:



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New York Apple Association
Cynthia Haskins
Cynthia@applesfromny.com

LaGasse Machine & Fabrication, Inc.
Ross Gansz
info@lagassefab.com

Tuesday, February 28

11:30 AM-1 PM: Attendee Check-In

Noon – 1 PM: Lunch & Visit Conference Sponsors!

Session 1 – Processing for the Future

(1-2:30 PM), chaired by Craig Kahlke

Scheduled:

Welcome & Introductions

Housekeeping, Meeting Format, and Theme

Sponsor spots

Processing Industry Current Overview & Future Outlook

(speaker TBA)

Current Juice Industry Trends in the Northeast and beyond

– Doug Ricketts, Northeastern Juice Cooperative, Inc.

2:30-3 PM – Break – Grab some refreshments and visit conference sponsors!

Session 2 – Advances in Fruit Production Technology,

Part 1, (3-5 PM), chaired by Mario Miranda Sazo

Sponsor Spots

Introduction

See promotional article elsewhere in this newsletter.

5 PM – Educational Sessions Adjourn for the Day

5-6:30 PM – Cocktail Hour (cash bar) and visit conference sponsors!

6:30-8 PM – Banquet Dinner (separate registration required)

6:30 – 8 AM: Breakfast

7:30-8 AM: Attendee Check In (day 2 only)

Session 3 - Pest Management I

(8-9:40 AM), chaired by Janet van Zoeren, 1.5 DEC Credits Available in Categories 1A, 10, 22

Introduction & DEC Credit sign up

Sponsor Spots

Updates on fire blight management field research from Geneva – Dr. Kerik Cox , Cornell University

Late season Brown Marmorated Stink Bug (BMSB) in Honeycrisp-descendant apples – Dr. Monique Rivera, Cornell University

Brown Marmorated Stink Bug statewide monitoring and apple damage assessments – Janet van Zoeren, CCE-LOF

Managing Woolly Apple Aphid Infestations in Apple Production – Dr. Monique Rivera, Cornell University

Managing Mites and Mite Flaring in Tree Fruits? – Dr. John Wise, Michigan State University

9:40-10:10 AM – Break – Grab some refreshments and visit our meeting sponsors!

Session 4 - Pest Management II

10:10AM-Noon, chaired by Janet van Zoeren, 1.5 DEC Credits Available in Categories 1A, 10, 22

Introduction & DEC Credit sign up

Sponsor Spots

[Preemergent Herbicide Timing Trial: Year 2 Updates – Mike Basedow \(CCE-ENYCHP\) and Janet van Zoeren \(CCE-LOF\)](#)

Statewide Orchard Soil Health Project Updates – Dr. Debbie Aller, Cornell University

Understanding Rootstocks, Root Traits, and Their Potential Impact on Tree Health in high-density orchards – Dr. Awais Khan (15 minutes)

Should apple viruses be of concern to the New York apple industry? – Anna Wunsch, Cornell University

Strawberry Troubleshooting – Anya Osatuke, Cornell University

Noon – 1 PM: Lunch & Visit Conference Sponsors!

Session 5 - NYAA & NYSHS Updates, Labor & Unionization

(1-2:30 PM) ,chaired by Craig Kahlke

Introduction

Sponsor Spots

New York Apple Association Updates, Cynthia Haskins, NYAA

New York State Horticultural Society Updates, speaker TBA

New York Farm Unions and Collective Bargaining, Joshua Viau, Partner, Fisher & Phillips, LLP – [more details to follow.](#)

Session 6 – Advances in Fruit Production Technology, Part 2, 3-5 PM, chaired by Mario Miranda Sazo

Sponsor Spots

Introduction

[See promotional article elsewhere in this newsletter.](#)

5 PM – Conference Adjourns. Safe travels!



Dr. Ines Hanrahan, Executive Director of the Washington Tree Fruit Research Commission, Will speak on February 28.

Advances in Fruit Production Technology Announcing Two Technology Sessions that Will Cover Ag-Technology Solutions for WNY: Available Today, Tomorrow, and for the Future

Mario Miranda Sazo and Janet van Zoeren

Following the PACMAN (Precision Crop Load Management) virtual meetups, which took place during the month of January 2023, we will discuss **several more Ag-technologies** during **two technology sessions at the 2023 WNY Fruit Conference** to be held on **Monday February 27** and **Tuesday February 28**. Both technology sessions will be conducted in the afternoons from 3-5pm. These sessions will provide an opportunity to WNY fruit growers to hear new Ag-tech developments and ask questions to expert panelists on various topics.

The first technology session on Monday February 27 will be introduced by Dr. Terry Bates, a pioneer of precision technology in the field of viticulture. With his vast experience, Bates will explain how precision-ag information that is currently being used in viticulture can also be applied to other fruit crop production systems in WNY. He will also introduce a 3-part series of short presentations and discussions to follow his introductory talk.

On Monday February 27, a first short session will discuss what technologies are available **right now** that WNY fruit growers can use to improve crop and farm management for fresh and processing fruit. There will be some case studies showing the impact and benefits of such technologies.

The second part will cover Extension outreach, communication, and **barriers to adoption** of new technologies. Here we will cover the topic of On-farm experimentation for growers to start using the technology and the support that they can get from Cornell University research faculty, the Cornell Cooperative Extension system, and the Ag-tech sector.

The third piece will cover a **futuristic look** at digital agriculture (DA) technologies and the possibilities of machine learning for future advances on tree fruit perennial systems. Here we will discuss where Cornell and other researchers will be focusing their efforts over the next 10 years to advance precision agriculture in perennial crops.

During those three short presentations, conference attendees will have the opportunity to submit questions via text. Some questions will be answered during the session, while others will be answered at the end of a second technology session on February 28.

On Tuesday February 28 a second technology session will introduce a series of Ag-technologies that have been adopted or are close to being implemented in the WA tree fruit industry. So far, we have confirmed the participation of Dr. Ines Hanrahan, Executive Director of the Washington Tree Fruit Research Commission (WTFRC). Hanrahan will be covering recent developments for the adoption of digital agriculture technologies in the WA fruit industry and much more.

The Tuesday session will close with a roundtable discussion summarizing the main Ag-tech aspects discussed on February 27 and 28.

Details are still being confirmed for these two technological sessions. In the meantime, please mark your calendars! More details will be announced via CCE LOF email blasts and the coming issue of our newsletter ~ February 2.

This CCE LOF educational effort for the coming WNY Fruit Conference in Ag-technologies is being conducted in close collaboration with Cornell faculties Awais Khan, Yu Jiang, Katie Gold, and Terry Bates. With so many new advances in computing, communication technology, global positioning (GPS), informatics, and big data, together with current advances in remote sensing, robotics, sensor technology, and machine learning, there is a tremendous value for WNY growers in attending these technology sessions.

We hope you will be able to attend the WNY Fruit Conference this year!

Ines Hanrahan will be speaking about Ag-Technologies and Main Barriers for Adoption at the WNY Fruit Conference

Mario Miranda Sazo

Dr. Ines Hanrahan, Executive Director of the Washington Tree Fruit Research Commission (WTFRC), will be covering recent developments for the adoption of digital agriculture technologies in the WA fruit industry and much more on **Tuesday February 28** (late pm session).

She has served as Executive Director of the Washington Tree Fruit Research Commission (WTFRC) since August 17, 2018. She has been with the Commission since 2005. Ines was the Commission's project manager prior to becoming Executive Director. Dr. Hanrahan provides administrative leadership to the organization, oversight of the WTFRC staff, and contributes to strategic planning for the WTFRC.

Ines strives to ensure all funding is geared towards investments in industry priority areas to enable increased productivity, improved product quality and to help growers stay economically viable in a globally competitive marketplace. She is committed to fostering vibrant public-private partnerships with tree fruit scientists worldwide. Hanrahan believes that with active involvement with diverse industry members WTFRC can contribute to empowering the entire industry to shape the future through innovation.

She is highly dedicated to connecting with the next generation of industry professionals, both as a mentor and as an industry leader, and to setting a positive example for an increasingly diverse global workforce.

Hanrahan grew up in East Germany where her family grew what they could due to food insecurity and her grandmother's lifelong

passion for gardening. She first came to the U.S. and Washington State as part of an agricultural exchange program. Hanrahan learned about the scope of the WA tree fruit industry while working in South Africa where she read *The Good Fruit Grower* and became determined to write for it one day. Hanrahan's interest in farming is not only part of her roots, education, and work. She and her husband and son live, work on, and own a commercial fruit orchard that they have expanded, that has been in her husband's family for more than a generation.

Education:

Ph.D. Horticulture, Washington State University, Pullman, Washington, USA, 2005

Agricultural Engineering Diploma, Area: Horticulture, Humboldt University, Berlin, Germany, 1999

Washington Tree Fruit Research Commission

The Washington Tree Fruit Research Commission (WTFRC), founded in 1969, represents tree fruit producers in Washington state. Their mission is to help find science-based solutions for the numerous challenges that face Washington apple, cherry, pear, and stone fruit growers and packers. They seek to provide a dynamic interface between academia and industry and to foster communication and interactions that benefit both communities. To support research, extension efforts and Washington tree fruit sustainability, they collect and expend approximately \$4.5 million annually from our growers' assessments. One of their key functions is to engage with industry to determine research priorities based on stakeholder needs. More info: <https://treefruitresearch.org/>

CCE Statewide Apple Conference

March 3, 2023

A VIRTUAL 1 Day Conference co-hosted by CCE-LOF & CCE-ENYCHP

Please join us via Zoom™ for an apple conference that will cover issues that are statewide, that will benefit a wider audience. Topics tapped thus far include: Our ARDP-supported "Statewide Effort to Manage Crop Load, Nutrient Status and Biter Pit of Honeycrisp" will be summarized to date, with exciting progress on recommendations to best manage this troublesome variety, using several years of data. We are also pleased to have Dan Olmstead (Cornell) present on climate data from all 3 major apple regions in New York. Dr. Anna Wallis, the new statewide IPM coordinator who starts with Cornell on March 1, will distribute an all-important survey on IPM priorities for our stakeholders. In addition, Mario will survey stakeholders to gauge your specific needs with regards to Spanish translation of information needed on your farms. Also Included will be more follow up on PACMAN and other technologies to increase efficiency in your operation. Another important topic includes a presentation by Dr. Jason Londo (Cornell University) on his research to date on the NY1 scarf skin disorders, and his proposed statewide research on lenticel disorders.

Consider Mating Disruption for Dogwood Borer in 2023

Janet van Zoeren and Monique Rivera

Dogwood borer is a “clearwing moth” (family Sesiidae; related to peach tree borer and lesser peach tree borer) that can cause tree decline and death in high density apple systems. Dogwood borer (DWB) is especially prevalent on trees prone to burr knots (e.g. M9 rootstock), although can also be attracted to trees with flaking bark. The larva feeds inside the graft union area of the tree, and often is not noticed until the tree begins to show decline symptoms. DWB is particularly problematic in younger and high-density blocks, whereas when present may go unnoticed in older semi-dwarf blocks.

Previously, DWB was likely managed (either intentionally or unintentionally) through trunk applications of Lorsban. In 2022, following the Lorsban ban, several orchards that have not seen DWB in recent years noticed declining trees with DWB larvae in the trunks.

A coarse trunk application of Assail 30SG (acetamiprid) applied at 8 oz/acre does provide a moderate degree of efficacy, but can only target younger larvae and requires multiple applications to be effective. A white latex trunk paint also may make trees less attractive to DWB, although that will not prevent infestation altogether.

The good news is that DWB (just like the peach tree borers) is a very easy insect to manage using mating disruption. Mating disruption works by “confusing” the male moth from being able to find (and mate with) females, by overwhelming the airspace with the pheromone that he would usually use to find the females. Some species of moth are easier to disrupt than others, depending on how the male moth responds to female pheromone signals. In apples, codling moth is one that is relative difficult to disrupt. Dogwood borer, conversely, is a species that is easy to disrupt.

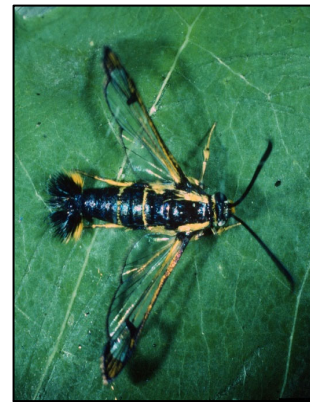
Some advantages of implementing mating disruption include: to slow insecticide resistance (and therefore keep insecticide products maximally effective for as long as possible), to decrease pest

populations without having an effect on non-target natural enemies or pollinators, and to avoid the possibility of “missing the timing” with your insecticide—once disruptors are in place with an easy to disrupt pest, cursory monitoring is the only other aspect to using the tool.

Using mating disruption for DWB this season can help you to avoid building up a population of DWB in your orchard, which will make it easier to disrupt or otherwise manage it in the long run. Mating disruption generally works best when populations are low, which is another reason to start now before populations have time to increase. Trialing it now will also allow you to learn more about how to implement mating disruption in your blocks now, so that this will be another important tool you know how to use correctly in case you need it in the future.

Note that disruptors need to be out by around mid-May for DWB in order to be effective!

Mating disruption can carry a sticker-shock, needs to be applied correctly to have any utility at all, and may not be the correct fit for every orchard. I would be very happy to work with each of you individually to discuss the advantages and disadvantages and to make sure that if you do implement mating disruption for DWB or any other species that you are doing it in such a way as to see results.



Dogwood borer adult. Photo courtesy of David Laughlin, Horticultural student, Bugwood.org.

Apple Leafcurling Midge IPM - Webinar

February 16, 2023 - 1:30 - 2:35 PM

In recent years, the apple leafcurling midge (ALCM) has become an increasingly problematic pest in many orchards across the northeast. Due to its small size and tendency to damage the newest terminal growth, growers often don't notice there is a problem until it is too late to manage effectively. In this webinar, Kristy Grigg-McGuffin (Horticulture IPM Specialist with the Ontario Ministry of Agricultural, Food, and Rural Affairs) will discuss Ontario's experience with ALCM, including its biology, monitoring, biological control, and chemical management.

This program is presented by CCE-ENYCHP and CCE-LOFP.

Register here:

<https://cornell.zoom.us/meeting/register/tJUvf-CuqDMjHt0rRzLXGR7LiMVeh-K6dyrO>

Agenda:

1:30 - Introduction, first Qualtrics survey - Mike Basedow, CCE ENYCHP

1:35 - Managing Apple Leafcurling Midge: The Ontario Perspective - Kristy Grigg-McGuffin, Ontario Ministry of Agriculture, Food, and Rural Affairs

2:35 - Final Qualtrics survey, Webinar Ends

1 DEC Credit Available in Categories 1A, 10, and 22

To receive credits, you must:

- Enter your ID number during registration
- Send a photocopy of your applicator ID to Mike at mrb254@cornell.edu or 518 410 6823
- Attend the entire webinar
- Complete the Qualtrics surveys at the beginning and end of the meeting

Endangered Species Act Workplan Update

The EPA is seeking comments on the Endangered Species Act (ESA) Workplan Update. Proposed changes to pesticide labeling can be found at <https://www.epa.gov/system/files/documents/2022-11/esa-workplan-update.pdf> in the appendix beginning on page 21.

These new requirements will start appearing on all pesticide labels and it sounds like the rollout will be as quick as possible. This is the time to communicate to EPA about any problems these requirements might pose in specific cropping systems.

Comments due by 2/14/2023 (was previously 1/30/23 but has been extended) here: <https://www.regulations.gov/docket/EPA-HQ-OPP-2022-0908/document>

Interim Ecological Mitigation #1: *Surface Water Protection Statements and Conservation Measure Pick List to Reduce Ecological Risks from Surface Water*; questions are as follows on page 24:

- Regarding the surface water protection statements, are there additional criteria for proposing mitigation that EPA should consider?
- Are the descriptions of the pick list mitigation measures in Section 4 clear? If not, please suggest alternative language.

Are there other measures that are effective in controlling dissolved runoff that should be included in the pick list? Please include supporting data with any suggestions.

Interim Ecological Mitigation #2: *Surface Water Protection Statement and Conservation Measure Pick List to Reduce Ecological Risks from Soil Erosion*; questions are as follows on page 27:

- Are the descriptions of the pick list mitigation measures in Section 4 clear?
- Are there other measures that are effective in controlling erosion that should be considered?

Although artificial mulches are commonly used in agriculture, EPA is limiting mulches to natural materials. Should EPA also consider artificial mulches as a pick list measure? If so, to what extent do artificial mulches reduce erosion? Please provide references for supporting data.

Please contact Janet van Zoeren at jev67@cornell.edu if you would like help understanding the proposed changes or the questions and comments which are being solicited.

Mark Your Calendar

Meeting Title	Agricultural Supervisory Certificate Program
Date	January 26 th 2023 – Feb 23 rd 2023
Time	3:00 p.m.
Location	virtual
Cost	\$275
Contact for Info/Registration	Register here: https://cvent.me/QgwAP1?i=m0BAMQJ8PUOT8CIRbMQ0UQ&locale=en-US
Brief Description of Meeting	See information on pages 2-3 of the last issue of this newsletter (Vol 22, Issue 16, December.)

Meeting Title	PACMAN Briefings Zoom Series in January
Date	Last of the series of three on Thursday, January 26
Time	12:00 noon – 1:30 PM
Location	Virtual (Zoom)
Cost	Free
Contact for Info/Registration	Register here: http://bit.ly/3B14LS7
Brief Description of Meeting	Updates and announcements will be posted on the PACMAN website: pacman.extension.org/ Recordings should be available shortly after the meetings.

Meeting Title	NOFA NY Virtual Winter Conference
Date	February 2-5, 2023
Time	See website
Location	Virtual
Cost	See website
Contact for Info/Registration	https://nofany.org/2023conference/
Brief Description of Meeting	NOFA-NY's annual conference.

Meeting Title	66th Annual IFTA Conference & Tours Resiliency- Adapting and Thriving in a Challenging Future
Date	February 12-15 th , 2023
Time	All day
Location	Grand Rapids, MI
Cost	\$650
Contact for Info/Registration	Please go to https://ifruittree.org/event/ifta-2023-annual-conference-and-tour/ for full agenda and registration information.

Meeting Title	Becker Forum
Date	February 8
Time	All day
Location	Oncenter, Syracuse.
Cost	Varied, see registration page: https://nysvga.org/2023-expo-registration/#!event-register/2023/2/1/2023-nysvga-expo
Contact for Info/Registration	https://nysvga.org/expo/information/ 585-993-1767 or nysvegetablegrowers@gmail.com
Brief Description of Meeting	https://agworkforce.cals.cornell.edu/becker-forum-on-agricultural-labor/

Meeting Title	Apple Leafcurling Midge IPM - Webinar
Date	February 16
Time	1:30-2:35 PM
Location	Virtual
Cost	Free
Contact for Info/Registration	Register here: https://cornell.zoom.us/meeting/register/tJUvf-CuqDMjHt0rRzLXGR7LiMVeh-K6dyrO For more info, contact Janet van Zoeren (jev67@cornell.edu) or Mike Basedow (mrb254@cornell.edu)
Brief Description of Meeting	See article in this newsletter. 1 DEC Credit Available in Categories 1A, 10, and 22.
Meeting Title	LOF Western NY Fruit Conference
Date	February 27-28 th , 2023
Time	PM on February 27, all day on February 28
Location	RIT Inn & Conference Center, 5257 West Henrietta Road, Henrietta, NY, 14467
Cost	See registration page. Discounts for LOF enrollees & Mott's growers.
Contact for Info/Registration	More information will be made available in this newsletter, on our website & conference page, and in our email blasts. Registration will open soon at: https://lof.cce.cornell.edu/event.php?id=1729
Brief Description of Meeting	This replaces LOF's Winter Fruit Schools. See pages 1-5 in this newsletter for detailed agenda and promotional articles.
Meeting Title	CCE Statewide Apple Conference
Date	March 3 rd , 2023
Time	~10 AM-2:30 PM
Location	virtual
Contact for Info/Registration	More information will be made available in this newsletter and on our website.
Brief Description of Meeting	This is jointly hosted by CCE-LOF and CCE-ENYCHP and addresses more statewide programming. It replaces LOF's participation in the Empire Producer's Expo. See article in this newsletter for a brief description of some key talk topics.
Meeting Title	2023 Annual Meeting & Conference of the 10th North American Strawberry Symposium
Date	March 7-10
Time	See website.
Location	San Luis Obispo, California
Cost	See website.
Contact for Info/Registration	https://nasga.org/n-american-strawberry-growers-conference.htm For additional information or questions please contact Kevin or Margo Schooley at 905-735-5379 or info@nasga.org
Brief Description of Meeting	Joint annual meeting and conference of NASGA & NASS.
Meeting Title	"Curso de Desarrollo de Liderazgo."
Date	March 14-15
Time	TBD
Location	TBD, based on proximity to majority of participants.
Cost	TBD
Contact for Info/Registration	Tim Shenk, tw574@cornell.edu .
Brief Description of Meeting	The Cornell Small Farms Program's Futuro en Ag project will offer a two-day Spanish-language Farm Management Skills Development course for WNY workers in the apple industry.

Cornell Cooperative Extension

Lake Ontario Fruit Program

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Contents

Western NY Fruit Conference
"State of the Industry"

Advances in Fruit Production Technology
Announcing Two Technology Sessions that Will Cover Ag-
Technology Solutions for WNY: Available Today,
Tomorrow, and for the Future

Ines Hanrahan will be speaking about Ag-Technologies
and Main
Barriers for Adoption at the WNY Fruit Conference

CCE Statewide Apple Conference

Consider Mating Disruption for Dogwood Borer in 2023

Apple Leafcurling Midge IPM - Webinar

Endangered Species Act Workplan Update

Mark Your Calendar

Contact Us

Fruit Notes

YOUR TRUSTED SOURCE FOR RESEARCH-BASED KNOWLEDGE

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,

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