

2020 Empire Producers Expo

Legend:

		DEC recertification credits applied for in Fruit or Vegetable (1A, 10, 22 or 23) , some sessions may also offer 21 or 24
		DEC recertification credits applied for in other category (e.g. Core, 3a, 7a, 8)
		No DEC recertification credits will be offered. CCA credits may be available.

TUESDAY JANUARY 14, 2020

ROOM	SESSION 1 9:00 AM – 10:15 AM	SESSION 2 10:45 AM – 12 NOON	LUNCH 12 NOON – 2:00 PM	SESSION 3 2:00 PM – 3:15 PM	SESSION 4 3:45PM – 5:00 PM
BALLROOM EAST	Sweet Corn	Solar Farming		Weed Management: Processing/Conventional	Uniform Stand Establishment
BALLROOM WEST		Investing in the Future: Orchard Management for the Long-Term		Tree Fruit: Horticulture	Agricultural Employment Update and Farmworker Housing Best Practices
ROOMS 1-2	Energy Savings: Ways to Cut Costs	BioControl I		BioControl II	Greenhouse
ROOM 3	USDA Risk Management	Pest-Free Worker Housing: How to Do it and Why it Matters		Understanding and Avoiding Ticks on the Farm	Optimizing IPM Practices for Rodents and Birds in Packing Houses
ROOM 4/5/6	Produce Safety Alliance Grower Training: Module 1*	Produce Safety Alliance Grower Training: Module 2 & 3*		Produce Safety Alliance Grower Training: Module 4 & 5*	Produce Safety Alliance Grower Training: Module 6 & 7*
ROOM 7/8		Post-Harvest Cooling for Fruit & Vegetables		Farm to School: The Market Opportunity for New York Farmers	Pesticide Labels/Personal Protective Equipment

WEDNESDAY JANUARY 15, 2020

ROOM	SESSION 1 9:00 AM – 10:15 AM	SESSION 2 10:45 AM – 12 NOON	LUNCH 12 NOON – 2:00 PM	SESSION 3 2:00 PM – 3:15 PM	SESSION 4 3:45PM – 5:00 PM	
BALLROOM EAST	Phytophthora Blight	Vine Crops		Soil Fertility	Small-Scale Potatoes	
BALLROOM WEST	Tree Fruit: Fruit Quality and Food Safety	Tree Fruit: Fire Blight Management		Organic Tree Fruit Production	Hard Cider	
ROOMS 1-2	Onion SLB Fungicide Resistance Workshop Part I	Onion SLB Fungicide Resistance Workshop Part II		Onion Pest Management	Cabbage	
ROOM 3	Energy Savings: Ways to Cut Costs	Cleaning and Sanitizing for Wash and Packing Facilities		Food Safety for Produce Farm Workers (with Spanish Translation available)		Finish at 4:30
ROOM 4/5/6	High Tunnels	Tomato Grafting Workshop		Sweet Potatoes	Hazard and Risk of Glyphosate	
ROOM 7/8		Farm to School: The Market Opportunity for New York Farmers		Apple Intensive IPM for a Healthy Crop*	Apple Intensive IPM for a Healthy Crop*	

THURSDAY JANUARY 16, 2020

ROOM	SESSION 1 9:00 AM – 10:15 AM	SESSION 2 10:45 AM - 12 NOON	LUNCH 12 NOON – 1:30 PM	SESSION 3 1:30 PM – ?	
BALLROOM EAST	Hemp I	Hemp II		Hemp III	Finish 2:15 PM
BALLROOM WEST	Berries I	Berries II		Berries III	Finish 3:30 PM
ROOMS 1-2	Soil Health I	Soil Health II		Weed Management – Organic	Finish 2:45 PM
ROOM 3	Specialty Root Crops	Hands-On Workshop: Choosing and Using the Right Small Sprayer		Garlic	Finish 3:00 PM
ROOM 4/5/6	FFA Student Session	Table Beet Workshop I: Why Grow Beets		Table Beet Workshop II: The Down and Dirty on Production	Finish 4:30 PM
ROOM 7/8	Apple Intensive IPM for a Healthy Crop*	Apple Intensive IPM for a Healthy Crop*			

***PREREGISTRATION REQUIRED**

TUESDAY, JANUARY 14

SWEET CORN

BALLROOM EAST

Session Organized by: Marion Zuefle, NYS IPM and Steve Reiners, Cornell

9:00 AM Announcements, DEC credit Sign-up –
Marion Zuefle, NYS IPM

9:05 AM IPM Practices in Sweet Corn: Overview of practices and resources. and: there's an app for that! –
Marion Zuefle, NYS IPM Program, Cornell

9:35 AM What's New from Industry

9:45 AM 2019 update on NEWA western bean cutworm flight predictions for sweet corn production in New York –
Dan Olmstead, NYS IPM Program NEWA Coordinator, Cornell

10:15 AM Adjourn

SOLAR FARMING

BALLROOM EAST

Session Organized by: Elizabeth Buck, CCE Cornell Vegetable Program

10:45 AM Announcements, What's New from Industry
Elizabeth Buck, CCE Cornell Vegetable Program

10:50 AM Economic, agronomic, and other considerations
Jennifer Ifft, Asst. Professor, Dyson School of Applied Economics & Management, Cornell

11:10 AM Evaluating Solar Agreements
Elizabeth Wolters, NYS Farm Bureau

11:30 AM The municipal perspective: Crafting good local policy and working with farms
Dan Lang, Dept. of Buildings and Properties, Batavia, NY

11:45 AM Panel Discussion and Q&A

12:00 PM Adjourn

WEED MANAGEMENT - PROCESSING/CONVENTIONAL

BALLROOM EAST

Session Organized by: Bryan Brown, NYS IPM Cornell, Lynn Sosnoskie, Horticulture/SIPS Cornell AgriTech

2:00 PM Announcements and DEC credit Sign-up –
Bryan Brown, NYSIPM

2:05 PM The Biology, Ecology, and Management of Herbicide-Resistant, Perennial, and Other Difficult-to-Control Weed Species: What We Know Now, and What We Need to Learn for the Future – *Lynn Sosnoskie, Horticulture/SIPS Cornell AgriTech*

3:05 PM What's New from Industry

3:15 PM Adjourn

UNIFORM STAND ESTABLISHMENT

BALLROOM EAST

Session Organized by: Ali Nafchi and Julie Kikkert, CCE-Cornell Vegetable Program.

3:45 PM Announcements and DEC credit Sign-up –
Julie Kikkert, CCE Cornell Vegetable Program

3:50 PM Seed Quality and Technology –
Alan Taylor, Horticulture/SIPS Cornell AgriTech

4:10 PM Soil Variability Impacts on Uniformity –
Jodi Putman, CCE Northwest New York Dairy, Livestock and Field Crops Program

4:30 PM Precision Agriculture Role in Uniformity –
Ali Nafchi, CCE Cornell Vegetable Program

4:50 PM Panel Discussion –
Alan Taylor, Jodi Putman, Ali Nafchi

5:00 PM Adjourn

INVESTING IN YOUR FUTURE: ORCHARD PLANNING FOR THE LONG-TERM

BALLROOM WEST

Session Organized by: Mark Wiltberger, CCE Lake Ontario Fruit Program

10:45 AM Announcements and Introduction –
Mark Wiltberger, CCE Lake Ontario Fruit Program

10:50 AM How to Plan Your Orchard Investments in a Rapidly Changing Market Place –
Matt Wells, New York Apple Sales, Inc., Glenmont, NY

11:20 AM What's New From Industry

11:25 AM Succession Strategies: Bearing Long-Term Fruit from Your Business –
Christopher Anderson, Farm Credit East, Cortland, NY Office

11:55 AM Speaker Q&A

12:00 PM Adjourn

TUESDAY, JANUARY 14

TREE FRUIT - HORTICULTURE

BALLROOM WEST

Session Organized by: Mario Miranda Sazo, CCE Lake Ontario Fruit Program

2:00 PM Welcome and Announcements –

Mario Miranda Sazo, CCE Lake Ontario Fruit Program

2:05 PM Application of New Technologies to Midwestern and Eastern Apple Systems: Containerized Nursery Trees, PGRs, and Crop Load Management Tools -

Todd Einhorn, Michigan State University

2:25 PM What's New From Industry

2:30 PM How to Choose Your Next Orchard by Understanding Physiological Principles -

Terence Robinson, Horticulture/SIPS Cornell AgriTech

2:55 PM Solving the High-Density Pear Puzzle – It is simple, We Have All the Pieces! -

Todd Einhorn, Michigan State University

3:15 PM Adjourn

AGRICULTURAL EMPLOYMENT UPDATE AND FARMWORKER HOUSING BEST PRACTICES

BALLROOM WEST

Organized by: Richard Stup, Cornell and Mary Jo Dudley, Cornell

3:45 PM New York employment laws related to farmworkers will change dramatically in January 2020. Farm employees become eligible for overtime, a mandatory day of rest, and the right to organize and collectively bargain. This presentation updates farms on these major legislative changes and possible strategies to remain in compliance. Other issues such as mandatory disability insurance and paid family leave will also be addressed. The new legislation also includes changes to farmworker housing regulations. Based on research with farmworkers, farmworker housing is perceived as a decisive factor for attracting and retaining skilled workers. The second part of this session will focus on housing best management practices informed by the experiences of farm workers and employers.

Richard Stup, Cornell and Mary Jo Dudley, Cornell

5:00 PM Adjourn

ENERGY SAVINGS – WAYS TO CUT COSTS

ROOMS 1/2

Session organized by: Liese Boese and Adam Boese, Daylight Savings Company

9:00 AM Announcements –

Adam Boese, Daylight Savings Company

9:05 AM Energy Bill Little-Known Discounts and Other Ways to Cut Costs -

Adam Boese, Daylight Savings Company

Discussion of utility bill discounts, how to effectively buy utilities from third party ESCOs, and the impact of sales taxes. Proven ways to save energy on the farm as well as new and interesting ways that are being tried out. Adam will answer any questions related to energy, renewables such as wind and solar, and net zero energy farms.

10:15 AM Adjourn

BIOCONTROL I

ROOMS 1-2

Session organized by: Amara Dunn, NYS Integrated Pest Management Program, Cornell

10:45 AM Announcements and DEC credit Sign-up –

Amara Dunn, NYS Integrated Pest Management Program

10:50 AM What's New From Industry

10:55 AM How does it work? Fungi that attack insects –

Amara Dunn, NYS Integrated Pest Management Program

11:05 AM Hitting the target – Important considerations in using beneficials for pest management –

Betsy Lamb, NYS Integrated Pest Management Program

11:30 AM Choosing pesticides to conserve natural enemies of pests –

Amara Dunn, NYS Integrated Pest Management Program

11:55 AM Evaluations & final questions -

Betsy Lamb and Amara Dunn, NYS Integrated Pest Management Program

12:00 PM Adjourn

BIOCONTROL II

ROOMS 1-2

Session organized by: Amara Dunn, NYS Integrated Pest Management Program, Cornell

2:00 PM Announcements and DEC credit Sign-up –

Amara Dunn, NYS Integrated Pest Management Program

TUESDAY, JANUARY 14

2:05 PM Biopesticide workshop: Make a plan to use biopesticides on your farm in 2020 –

Have you been thinking of trying a biopesticide on your farm, but the details of when and how to apply it feel daunting, especially once the season starts? Get your questions answered by experts and make a plan to try a new biopesticide in 2020. Led by Amara Dunn, NYS Integrated Pest Management Program; with additional expertise from Cornell, Extension, and Industry personnel

3:15 PM Adjourn

GREENHOUSE ROOMS 1-2

Session Organized by: New York State Flower Industries

3:45 PM Announcements and DEC credit Sign-up – *Neil Mattson, Horticulture/SIPS Cornell*

3:50 PM Top greenhouse insect pests and conventional and biological methods of control – *John Sanderson, Entomology, Cornell*

4:25 PM What's New from Industry

4:30 PM Managing light, temperature and relative humidity in the greenhouse environment – *Neil Mattson, Horticulture/SIPS Cornell*

5:00 PM Adjourn

USDA RISK MANAGEMENT ROOM 3

9:00 AM Announcements

USDA-ERS Risk Management Focus Group – by invitation only” This session is for growers who have been invited by Cornell University to participate in a USDA-ERS research focus group on strategies for managing risk in fruit and vegetable production.

10:15 AM Adjourn

PEST -FREE WORKER HOUSING- HOW TO DO IT AND WHY IT MATTERS

Room 3

Session organized by Abby Seaman, NYS IPM Program, Cornell

10:45 AM Announcements and DEC credit sign-up – *Abby Seaman, NYS IPM Program, Cornell*

10:50 AM Best Practices for Addressing the Challenges and Consequences of Pests in Worker Housing - *Matt Frye, NYS IPM Program, Cornell*

11:25 AM Uninvited Hitchhikers: What you Need to Know about Bed Bugs to Help Eliminate Them - *Matt Frye, NYS IPM Program, Cornell*

12:00 PM Adjourn

UNDERSTANDING AND AVOIDING TICKS ON THE FARM

Room 3

Session organized by Abby Seaman, NYS IPM Program, Cornell

2:00 PM Announcements and DEC credit sign-up – *Abby Seaman, NYS IPM Program, Cornell*

2:05 PM Don't Get Ticked! - *Joellen Lampman, NYS IPM Program, Cornell*

2:50 PM INVASION! Status of the Newly Introduced Asian Longhorned Tick in NY - *Joellen Lampman, NYS IPM Program, Cornell*

3:15 Adjourn

OPTIMIZING IPM PRACTICES FOR RODENTS AND BIRDS IN PACKING HOUSES

Room 3

Session organized by Abby Seaman, NYS IPM Program

3:45 PM Announcements and DEC credit sign-up – *Abby Seaman, NYS IPM Program, Cornell*

3:50 PM Understanding Pest Management Regulations in Packing Houses - *Matt Frye, NYS IPM Program, Cornell*

4:05 PM Science-Based Rodent Management - *Matt Frye, NYS IPM Program, Cornell*

4:45 PM Not for the Birds! Methods for Keeping Birds out of Packing Houses - *Matt Frye, NYS IPM Program, Cornell*

5:00 Adjourn

TUESDAY, JANUARY 14

PRODUCE SAFETY ALLIANCE GROWER TRAINING

ROOM 4/5/6

Session Organized by: Betsy Bihn Produce Safety Alliance, Cornell

In order to receive an AFDO/PSA certificate of attendance, participants must be in attendance for all modules. Please do not arrive late and plan to stay for the entire workshop

8:30 AM Welcome and Introductions

9:00 AM Module 1: Introduction to Produce Safety -

Betsy Bihn, Produce Safety Alliance, Cornell

10:00 AM Break

10:15 AM Module 2: Worker Health, Hygiene, and Training-

Laura Acuna-Maldonado, Produce Safety Alliance, Cornell

11:15 AM Module 3: Soil Amendments

Laura Acuna-Maldonado, Produce Safety Alliance, Cornell

12:00 PM Lunch Break

12:45 PM Module 4: Wildlife, Domestic Animals, and Land Use -

Elisabeth Hodgdon, CCE Eastern NY Commercial Horticulture Team

1:30 PM Module 5: Agricultural Water – Part I: Production Water-

Laura Pineda-Bermudez, National GAPs Program, Cornell

2:30 PM Module 5: Agricultural Water – Part 2: Postharvest Water

Elisabeth Hodgdon, CCE Eastern NY Commercial Horticulture Team

3:15 PM Break

3:30 PM Module 6: Postharvest Handling and Sanitation-

Betsy Bihn, Produce Safety Alliance, Cornell

4:30 PM Module 7: How to Develop a Farm Food Safety Plan

Laura Pineda-Bermudez, National GAPs Program, Cornell

5:15 PM Final Questions and Evaluations

5:30 PM Adjourn

POSTHARVEST COOLING FOR FRUITS AND VEGETABLES

ROOMS 7/8

Session organized by: Michael Mager, Arctic Refrigeration

10:45 AM How much refrigeration do you need for your fruit and vegetable cooler

Michael Mager, Arctic Refrigeration, Batavia, NY

12:00 PM Adjourn

FARM TO SCHOOL: THE MARKET OPPORTUNITY FOR NEW YORK FARMERS

ROOM 7/8

Session Organized by: Cheryl Thayer, CCE Harvest New York

2:00 Announcements -

Cheryl Thayer, CCE Harvest New York

2:05 THE MARKET OPPORTUNITY FOR NY FARMERS

Cheryl Thayer, Cornell Cooperative Extension Harvest NY

Jake Perrin, Cornell Cooperative Extension Oneida County

Nique Wilson, Wayne Central School District

Public K-12 schools spend an estimate of \$420M annually on food for service through various meal programs, to include breakfast, lunch, suppers, and summer. Recently, Governor Cuomo passed legislation incentivizing schools to increase purchases of NY farm items and processed items that contain NY farm ingredients. This has catalyzed demand from schools in sourcing more local items. During this session, you'll learn about what schools are looking for in terms of produce and how to "plug in" to their supply chains effectively and efficiently. Case studies on successful partnerships between schools and farmers will be highlighted.

3:15 Adjourn

PESTICIDE LABELS/ PERSONAL PROTECTIVE EQUIPMENT

ROOMS 7/8

Session organized by: Mike Helms, Pesticide Management

Education Program, Cornell

3:45 PM Announcements and DEC credit Sign-up –

Mike Helms, Pesticide Management Education Program, Cornell

3:50 PM Have You Really Read that Pesticide Label? and Personal Protective Equipment

Mike Helms, Pesticide Management Education Program, Cornell

The first portion of this presentation will focus on the more unique pesticide label requirements and what it means to the applicator. We'll cover such items as mandatory versus

advisory language, pollinator protection requirements, and application equipment needs. A hands-on activity using an actual pesticide label will emphasize key points and provide practical experience. The second portion of the presentation

will talk about personal protective equipment including label requirements, selection, and care.

5:00 PM Adjourn

WEDNESDAY, JANUARY 15

PHYTOPHTHORA BLIGHT

BALLROOM EAST

Session Organized by: Greg Vogel, PPPMB/SIPS Cornell

9:00 AM Announcements and DEC credit Sign-up –
Greg Vogel, PPPMB/SIPS Cornell

9:05 AM What's New From Industry

9:15 AM Can Phytophthora blight be effectively managed? -
Margaret McGrath, PPPMB/SIPS Cornell

9:30 AM Options and outlook for Phytophthora resistance in peppers and squash -
Greg Vogel, PPPMB/SIPS Cornell

9:45 AM Phytophthora blight in Tennessee: A southern perspective -
Zachariah Hansen, University of Tennessee

10:00 AM Grower experiences with Phytophthora blight
Dan Henry, W.D. Henry & Sons, Inc., Eden, NY
John Hand, Hand Melon Farm, Greenwich, NY

10:15 AM Adjourn

VINE CROPS

BALLROOM EAST

Session Organized by: Steve Reiners, Horticulture/SIPS Cornell AgriTech

10:45 AM Announcements and DEC credit Sign-up –
Steve Reiners, Horticulture/SIPS Cornell AgriTech

10:50 AM Can biopesticides help you manage cucurbit powdery mildew?–
Amara Dunn, NYS IPM, Cornell

11:15 AM Report on status of UV arrays to reduce powdery, downy mildew and potential applications to other pests -
Ziggy Majumdar, Rensselaer Polytechnic Institute

11:35 AM What's new with vine crops –
Seed company reps

12:00 PM Adjourn

SOIL FERTILITY

BALLROOM EAST

Session Organized by: Sandra Menasha, CCE Suffolk County

2:00 PM Announcements and DEC credit Sign-up –
Sandra Menasha, CCE Suffolk County

2:05 PM Foliar Feeding – What Works? –
Dr. Steve Reiners, Horticulture/SIPS Cornell AgriTech

2:25 PM Soil Sulfur Trends and Implications in NYS –
Jodi Putman, CCE Cornell Northwest Dairy, Livestock and Field Crops Team
Michael Rosato, Horticulture/SIPS Cornell AgriTech

2:50 PM Controlled Release Nitrogen in Vegetable Crop Production –
Sandra Menasha, CCE Suffolk County

3:10 PM What's New From Industry

3:15 PM Adjourn

SMALL-SCALE POTATOES

BALLROOM EAST

Session Organized by: Margie Lund, CCE Cornell Vegetable Program

3:45 PM Announcements and DEC credit Sign-up –
Margie Lund, Cornell Vegetable Program

3:50 PM Fresh Market Potato Varieties Available for Small Scale Growers
Walter De Jong, Plant Breeding and Genetics/SIPS Cornell

4:20 PM What's New From Industry

4:30 PM Disease and Pest Management in Organic Potatoes -
Abby Seaman, NYS IPM, Cornell

5:00 PM Adjourn

WEDNESDAY, JANUARY 15

TREE FRUIT: : FRUIT QUALITY & FOOD SAFETY

BALLROOM WEST

Session Organized by: Craig Kahlke, CCE Lake Ontario Fruit Program

9:00 AM Welcome & Announcements -

Craig Kahlke, CCE Lake Ontario Fruit Program

9:05 AM Bitter pit comes of age at 150: A review of what we know and what it means for Honeycrisp and other sensitive varieties -

Randolph Beaudry, Professor & Graduate Program Director, Dept. of Horticulture, Michigan State University, East Lansing, MI

9:40 AM What's New From Industry

9:45 AM The potential use of insect exclusion/anti-hail nets to reduce or eliminate apple thinning -

Todd Einhorn, Assistant Professor, Dept. of Horticulture, Michigan State University, East Lansing, MI

10:00 AM Update on the MSU Center for Produce Safety project on the survival of Listeria on stored apple fruit –

Randolph Beaudry, Professor & Graduate Program Director, Dept. of Horticulture, Michigan State University, East Lansing, MI

10:15 AM Adjourn

TREE FRUIT IPM- FIRE BLIGHT MANAGEMENT

BALLROOM WEST

Session Organized by: Awais Khan, Cornell, SIPS

10:45 AM Announcements, & DEC Credit Sign-up–

Janet Van Zoeren, Cornell Cooperative Extension – Lake Ontario Fruit Program

10:50 AM Managing Fire Blight in Young High-Density Orchards–

George Sundin, Professor, Dept. of Plant, Soil, and Microbial Sciences, Michigan State University, East Lansing, MI.

11:30 AM What's New from Industry

11:35 AM Updates on Prohexadione Research and Tools for Managing Blossom and Shoot Blight – Kerik Cox, PPPMB/SIPS Cornell AgriTech

11:50 AM Managing Fire Blight by Choosing Decreased Host Susceptibility Levels and Rootstock Traits–

Awais Khan, , PPPMB/SIPS Cornell AgriTech

12 PM Adjourn to Lunch & Trade Show

ORGANIC TREE FRUIT PRODUCTION

BALLROOM WEST

Session Organized by: Kate Brown and Gregory Peck, Horticulture/SIPS Cornell

2:00 PM Announcements and DEC credit Sign-up –

Kate Brown, Horticulture/SIPS Cornell

2:05 PM What's New From Industry

2:15 PM Guided Panel Discussion with Attendee Participation - Orchard Weed Management and Implications for Soil Health –

*Kate Brown, Horticulture/SIPS Cornell
Gregory Peck, Horticulture/SIPS Cornell
Deborah Aller, CCE Suffolk County
Grower Panelist (TBD)*

3:00 PM Question and Answer Session with Attendees

3:15 PM Adjourn

HARD CIDER

BALLROOM WEST

Session Organized by: Greg Peck & Chris Gerling, Cornell; Craig Kahlke, CCE Lake Ontario Fruit Program; Lindsey Pashow, CCE Harvest NY

3:45 PM Welcome & Announcements –

Craig Kahlke, CCE Lake Ontario Fruit Program

3:50 PM Mechanical Cider Apple Harvesters –

Whitney Knickerbocker & Greg Peck, Cornell, SIPS

4:10 PM Red-Juice Apple Cultivars for Hard Cider Production –

Chris Gottschalk, PhD Graduate Research Assistant, Dept. of Horticulture, Michigan State University, East Lansing, MI

4:40 PM What's New From Industry

4:45 PM Strategies for Managing YAN in the Orchard –

Greg Peck & Adam Karl, Horticulture/SIPS Cornell

5:00 PM News from the New York Cider Association (NE Cider Conference) –

TBA, NYCA

5:05 PM Hard Cider PWT Annual meeting –

PWT Members, all invited

5:15 PM Adjourn to Cider Tasting sponsored by NYCA, at Syracuse Marriott Downtown, Specific location TBD

WEDNESDAY, JANUARY 15

APPLE IPM INTENSIVE WORKSHOP – A CERTIFICATE PROGRAM

Note: You must attend all 4 sessions in order to receive a certificate. However, sessions for DEC credits are separate

APPLE INTENSIVE IPM FOR A HEALTHY CROP ROOM 7/8

Session Organized by: Michael Basedow, CCE Eastern NY Commercial Horticulture Team

2:00 PM Introduction to the Apple IPM Intensive Workshop

Michael Basedow, CCE Eastern NY Commercial Horticulture Team

2:05 PM What is Integrated Pest Management (IPM)?

Juliet Carroll, NYS IPM Program, Cornell

2:15 PM Rate your current IPM tactics

Janet van Zoeren, CCE Lake Ontario Fruit Program

2:25 PM What are the major pests targeted by apple IPM?

Insects and Mites – Art Agnello, Entomology, Cornell AgriTech

Plant Diseases - Kerik Cox, PPPMB/SIPS Cornell AgriTech

Weeds and Wildlife – Juliet Carroll, NYS IPM, Cornell

3:15 PM Break – Visit Trade Show

APPLE INSECT TARGETS & IPM TACTICS

ROOM 7/8

Session Organized by: Janet van Zoeren, CCE Eastern NY Commercial Horticulture Team

3:45 PM Introduction to the session,

Janet van Zoeren, CCE Lake Ontario Fruit Program

3:50 PM IPM for plum curculio, oriental fruit moth and codling moth -

Art Agnello, Entomology, Cornell AgriTech

Degree days and pest events; Using traps, insect models, and mating disruption; Keeping good records; Rate your learning

4:25 PM IPM for obliquebanded leafroller, mites and apple maggot-

Art Agnello, Entomology, Cornell AgriTech

Degree days and pest events; Using traps, insect models, and mating disruption; Keeping good records; Rate your learning

5:00 PM Adjourn

ONION SLB FUNGICIDE RESISTANCE WORKSHOP – PART I ROOM 1-2

Session Organized by: Christy Hoepting, CCE Cornell Vegetable Program

9:00 AM Announcements and DEC credit sign-up –

Christy Hoepting, CCE Cornell Vegetable Program

9:05 AM The ever-changing field performance of fungicides for control of Stemphylium leaf blight of onion

– Christy Hoepting, CCE Cornell Vegetable Program

9:30 AM What's new from industry?

9:35 AM Current status of Stemphylium leaf blight fungicide resistance in onion in New York –

Frank Hay, Cornell, SIPS

9:55 AM Effect of fungicide rate and rotation on development of Stemphylium leaf blight fungicide resistance in onion -

Katrin Ayer, Cornell, SIPS

10:15 PM Break

ONION SLB FUNGICIDE RESISTANCE WORKSHOP – PART II ROOMS 1-2

Session Organized by: Christy Hoepting, CCE Cornell Vegetable Program

10:45 AM Announcements and DEC credit sign-up –

Christy Hoepting, CCE Cornell Vegetable Program

10:50 AM Feature presentation: Fungicide resistance 101 – Knowledge is power! –

Craig Austin, Syngenta Crop Protection

11:30 AM 2020 vision: New fungicide recommendations for Stemphylium leaf blight –

Christy Hoepting, CCE Cornell Vegetable Program

11:40 AM Onion thrips research round-up from 2019 –

Brian Nault and Karly Regan, Dept. of Entomology, Cornell AgriTech

12:00 PM Lunch and Visit Trade Show

WEDNESDAY JANUARY 15

ONION PEST MANAGEMENT

ROOMS 1-2

Session Organized by: Christy Hoepting, CCE Cornell Vegetable Program

2:00 PM Announcements and DEC credit sign-up –
Christy Hoepting, CCE Cornell Vegetable Program

2:05 PM How abiotic and landscape factors influence onion maggot damage in New York –
Erica Moretti, Entomology, Cornell AgriTech

2:25 PM Flies in the ointment: Update on onion maggot and Allium leafminer management –
Brian Nault, Entomology, Cornell AgriTech

2:50 PM Unravelling the intricacies of Outlook herbicide injury in onion-
Christy Hoepting, CCE Cornell Vegetable Program

3:15 PM Adjourn

CABBAGE

ROOMS 1-2

Session Organized by: Christy Hoepting, CCE Cornell Vegetable Program

3:45 PM Announcements and DEC credit sign-up-
Christy Hoepting, CCE Cornell Vegetable Program

3:50 PM Light on the horizon: A molecular discovery opens the door for developing cabbage varieties resistant to black rot –
Zoe Dubrow, Chris Smart and Adam Bogdanove, PPPMB/SIPS, Cornell

4:15 PM What's new from industry?

4:20 PM The Lorsban Ban: Cabbage maggot control without it-
Brian Nault, Entomology, Cornell AgriTech

4 :40 PM On-farm cabbage herbicide trial featuring control of lambsquarters
Christy Hoepting, CCE Cornell Vegetable Program

5:00 PM Adjourn

ENERGY SAVINGS – WAYS TO CUT COSTS

ROOM 3

Session organized by: Liese Boese and Adam Boese, Daylight Savings Company

9:00 AM Announcements –
Adam Boese, Daylight Savings Company

9:05 AM Energy Bill Little-Known Discounts and Other Ways to Cut Costs

Adam Boese, Daylight Savings Company
Utility bill discounts, how to effectively buy utilities from third party ESCOs, and the impact of sales taxes. Proven ways to save energy on the farm as well as new and interesting ways that are being tried out. Adam will answer any questions related to energy, renewables such as wind and solar, and net zero energy farms.

10:15 AM Adjourn

CLEANING AND SANITIZING FOR WASH/PACK FACILITIES

ROOM 3

Session Organized by: Robert Hadad, CCE Cornell Vegetable Program

10:45 AM Announcements –
Robert Hadad CCE CVP

10:50 AM What's New From Industry

10:55 AM Cleaning and Sanitizing Practices for Wash/Pack Facilities -

Caitlin Vore and Robert Hadad, CCE CVP
Microbial contamination can make a mess in your wash/pack facility. Learn more about prevention of problems in post-harvest handling from harvest to storage with the focus on cleaning and sanitizing. How does design impact reduction of microbial risk? How do you clean produce wash equipment that wasn't meant to come apart? What do we mean by "clean"? How do SOPs help?

12:00 Adjourn

FOOD SAFETY TRAINING FOR PRODUCE FARM WORKERS

(Spanish translation available)

ROOM 3

Session Organized by: Robert Hadad, CCE Cornell Vegetable Program

2:00 PM Announcements –
Caitlin Vore, CCE CVP

2:05 PM What's New From Industry

2:10 PM Worker training –

Robert Hadad & Caitlin Vore CCE Cornell Vegetable Program
Under the FDA FSMA regulations, a huge emphasis is on worker training. Workers are your eyes and ears on the ground. Thorough training reduces the risk of microbial contamination considerably. A well-trained worker will be a great asset in the new world of farm food safety responsibilities. This session will have Spanish translation available.

4:30 PM Adjourn

WEDNESDAY JANUARY 15

HIGH TUNNELS

ROOM 4/5/6

Session Organized by: Judson Reid, CCE Cornell Vegetable Program

9:00 AM Announcements and DEC credit Sign-up –
Judson Reid, CCE Cornell Vegetable Program

9:05 AM Effect of shade and cultivar on colored pepper production in high tunnels-
Ajay Nair, Iowa State University

9:25 AM What's New From Industry

9:30 AM Winter Cover Crops for High Tunnels-
Judson Reid and Caitlin Vore, CCE Cornell Vegetable Program

9:50 AM Crop rotation alternative for high tunnels: Specialty melons-
Ajay Nair, Iowa State University

10:15 AM Adjourn

TOMATO GRAFTING WORKSHOP

ROOM 4/5/6

Session Organized by: Judson Reid, Cornell Vegetable Program and Margaret Frank, Cornell, SIPS

10:45 AM Announcements –
Judson Reid, Cornell Vegetable Program

10:50 AM What's New From Industry

10:55 AM Hands on tomato grafting workshop –
Judson Reid, Cornell Vegetable Program; Margaret Frank, and Hannah Rae Thomas, Plant Biology/SIPS Cornell

Noon Adjourn

SWEET POTATOES

ROOM 4/5/6

Organized by: Chuck Bornt, CCE Eastern NY Commercial Horticulture Team

2:00 PM Announcements and DEC credit Sign-up –
Chuck Bornt, CCE ENY Commercial Horticulture Team

2:05 PM 2019 Variety Trials and Slip Production and Quality Evaluations -
Chuck Bornt, CCE ENY Commercial Horticulture Team

2:35 PM Managing Wireworm Damage in Sweet Potato Production –
Teresa Rusinek, CCE ENY Commercial Horticulture Team

2:55 PM What's New From Industry

3:00 PM Growing sweet potatoes for phytochemicals –
Gaurav Moghe, Cornell, SIPS

3:15 PM Adjourn

HAZARD AND RISK OF GLYPHOSATE

Rooms 4/5/6

Session organized by: Dan Wixted, Pesticide Management Education Program, Cornell

3:45 PM Announcements and DEC credit Sign-up –
Dan Wixted, Pesticide Management Education Program, Cornell

3:50 PM Assessing Pesticide Hazard and Risk: Glyphosate, a Case Study
Dan Wixted, Pesticide Management Education Program, Cornell

There is much confusion surrounding glyphosate with respect to its potential to cause adverse health effects, including cancer. This presentation aims to clarify the issue by looking at pesticide hazard and risk assessment and how the pesticide registration process mitigates risk.

5:00 PM Adjourn

FARM TO SCHOOL: THE MARKET OPPORTUNITY FOR NEW YORK FARMERS

ROOM 7/8

Session Organized by: Cheryl Thayer, CCE Harvest NY

10:45AM Announcements -
Cheryl Thayer, CCE Harvest New York

10:55 AM
Public K-12 schools spend an estimate of \$420M annually on food for service through various meal programs, to include breakfast, lunch, suppers, and summer. Recently, Governor Cuomo passed legislation incentivizing schools to increase purchases of NY farm items and processed items that contain NY farm ingredients. This has catalyzed demand from schools in sourcing more local items. During this session, you'll learn about what schools are looking for in terms of produce and how to "plug in" to their supply chains effectively and efficiently. Case studies on successful partnerships between schools and farmers will be highlighted.
Cheryl Thayer, Cornell Cooperative Extension Harvest NY
Jake Perrin, Cornell Cooperative Extension Oneida Co.
Nique Wilson, Wayne Central School District

Noon Adjourn

THURSDAY, JANUARY 16

APPLE IPM INTENSIVE WORKSHOP – A CERTIFICATE PROGRAM (continued)

Note: You must attend all 4 sessions in order to receive a certificate. However, sessions for DEC credits are separate

APPLE DISEASES & IPM DEFENSES

ROOM 7/8

Session Organized by: Juliet Carroll, NYS IPM, Cornell

9:00 AM Introduction to the session

Juliet Carroll, NYS IPM Program, Cornell

9:05 AM IPM for apple scab and fire blight

Kerik Cox, PPPMB/SIPS Cornell AgriTech

Sanitation, cultural practices, and resistant varieties; Plant disease forecasting models and keeping good records; Best Management Practices (BMPs) against fungicide and antibiotic resistance; Rate your learning.

9:40 AM IPM for powdery mildew and summer diseases

Kerik Cox, PPPMB/SIPS Cornell AgriTech

Sanitation, cultural practices, and resistant varieties; Plant disease forecasting models and keeping good records; Best Management Practices (BMPs) against fungicide and antibiotic resistance; Rate your learning.

10:15 AM Break – Visit Trade Show

WILDLIFE, WEEDS & THE IPM WRAP-UP

ROOM 7/8

Session Organized by: Michael Basedow, CCE Eastern NY Commercial Horticulture Team

10:45 AM Management programs for arthropods,

Art Agnello, Entomology, Cornell Agritech

10:55 AM Management programs for diseases

Kerik Cox, PPPMB/SIPS Cornell AgriTech

11:05 AM IPM for wildlife damage & rate your learning

Juliet Carroll, NYS IPM Program, Cornell

11:20 AM IPM for weeds & rate your learning

Lynn Sosnoskie, Horticulture/SIPS Cornell AgriTech

11:40 AM Putting it all together – maximizing your time efficiency

Art Agnello, Entomology, Cornell Agritech

11:50 AM Rate your future IPM tactics –

Janet van Zoeren, CCE Lake Ontario Fruit Program

Noon Adjourn - Receive your workshop certificate

HEMP I

BALLROOM EAST

Session Organized by: Maire Ullrich, CCE Eastern NY Horticulture Program

9:00 AM Welcome

Maire Ullrich, CCE Eastern NY Horticulture Program

9:10 AM Update on Permitting in New York –

Chris Logue, Director, Div. of Plant Industries NYS DAM

9:30 AM Production Costs and Budgeting for Hemp –

John Hanchar, NWNY Dairy, Livestock, and Field Crops Program Specialist, CCE

9:50 AM Considerations in greenhouse production of Hemp: From cuttings to flowers –

Neil Mattson, Horticulture/SIPS Cornell

10:10 AM What's New From Industry

10:15 AM Adjourn

HEMP II

BALLROOM EAST

Session Organized by: Maire Ullrich, CCE Eastern NY Horticulture Program

10:45 AM Weed Management in Hemp –

Lynn Sosnoskie, Horticulture/SIPS Cornell AgriTech

11:05 AM Pesticide Applications for Hemp –

Jeanine Broughel, Chief, Pesticide Product Registration Section, Bureau of Pesticides Management, NYSDEC

11:25 AM Powdery Mildew on Hemp –

Chris Smart & Ali Cala, PPPMB/SIPS Cornell AgriTech

11:45 AM Crop Insurance Options for Hemp Growers –

Jennifer Ifft, Cornell

12:00 PM Adjourn

HEMP III

BALLROOM EAST

Session Organized by: Maire Ullrich, CCE Eastern NY Horticulture Program

1:30 PM Cornell Hemp Trial Results 2019 –

Larry Smart, Horticulture/SIPS Cornell AgriTech

2:00 PM Organic Certification for Hemp -What does it require to certify? –

Lauren Tonti, Certification Co-Director, NOFA-NY Certified Organic

2:15 PM Adjourn

THURSDAY, JANUARY 16

BERRY SESSION I

BALLROOM WEST

Session organized by Laura McDermott, CCE ENYCHP and Esther Kibbe, CCE Harvest NY

9:00 AM Welcome and DEC Credit Sign-up

9:05 AM Raspberry Crop Management – Alternatives to Traditional Production Systems-

Marc Poirier, Quebec Ministry of Agriculture, Victoriaville, Quebec, Canada

9:55 AM How Can I Get a High Tunnel? Support for Protected Culture -

Rebecca Foltasz, NRCS, Syracuse, NY

10:15 AM Adjourn

BERRY SESSION II

BALLROOM WEST

Session organized by Laura McDermott, CCE ENYCHP and Esther Kibbe, CCE Harvest NY

10:45 AM Welcome/DEC Credit Sign-up/What's New

10:50 AM Improving Customer Satisfaction – Insights from 2019 Survey

Miguel Gomez, Dyson School, Cornell

11:15 NYSBGA Annual Meeting

Liz Madison, President NYSBGA

11:30 AM June bearing strawberry production in NJ – moving from matted row to plasticulture

Peter Nitzsche, Rutgers, Pittstown, NJ

12:00 PM Adjourn

BERRY SESSION III

BALLROOM WEST

Session organized by Laura McDermott, CCE ENYCHP and Esther Kibbe, CCE Harvest NY

1:30 PM Welcome and DEC Credit Sign-up

1:35 PM Organic Pest Management at Wegmans organic berry farm

*Esther Kibbe, CCE Harvest NY and Wegman's Farm Mgr.
Mark Bowker, Wegmans, Canandaigua, NY*

2:30 PM Protected culture – an aid to organic pest management

Marc Poirier, Quebec Ministry of Agriculture

3:00 PM Successful approaches to organic production – Roundtable discussion

3:30 PM Adjourn

SOIL HEALTH I

ROOMS 1/2

Session organized by Ryan Maher, Cornell Small Farms Program

9:00 AM Soil quality and health: Microscopic warriors of vegetable production systems

Ajay Nair – Iowa State University

9:45 AM Looking into living soil: Research spotlight

- **Microarthropods alter microbial activity and impact crops under different fertilizers -**

Ashley Jernigan, Entomology, Cornell

- **Weed microbial competition for nitrogen: A new soil-based tool for weed management? -**

Maria Gannett –Horticulture/SIPS Cornell

- **Characterizing NY soil health by texture and operation type -**

Haley Rylander – NY Soil Health Program

10:15 AM Adjourn

SOIL HEALTH II

ROOMS 1/2

Session organized by Ryan Maher, Cornell Small Farms Program

10:45 AM What's new from industry?

10:50 AM No-till tools and cover crop practices for vegetables -

Trevor Hardy, Brookdale Fruit Farm – Hollis, NH

11:25 AM Managing soils in a permanent raised-bed tillage system -

Asher Burkhart-Spiegel, Common Thread Community Farm, Madison, NY

12:00 PM Adjourn

THURSDAY, JANUARY 16

WEED MANAGEMENT - ORGANIC

ROOMS 1-2

Session Organized by: Bryan Brown, NYS IPM, Cornell;
Lynn Sosnoskie, Horticulture/SIPS Cornell Agritech;
Crystal Stewart-Courtens, CCE ENY Commercial
Horticulture Program;
Maria Gannett, Horticulture/SIPS Cornell

1:30 PM Announcements and DEC credit Sign-up –
Bryan Brown, NYSIPM

1:35 PM Weed Management with Solarization –
Sonja Birthisel, University of Maine

2:05 PM Initial Results Using Soil Steaming –
Andre Cantelmo, Heron Pond Farm

2:35 PM What's New from Industry

2:45 PM Adjourn

SPECIALTY ROOT CROPS

ROOM 3

Session organized by: Robert Hadad, CCE Cornell
Vegetable Program and Crystal Stewart, CCE – Eastern NY
Commercial Horticulture Program

9:00 AM Announcements

9:05 AM What's New From Industry

**9:10 AM Salsify, Scorzonera, and Root Parsley: They're
More Than Just Ugly Roots! -**
Robert Hadad, CVP

9:35 AM Yacon: What is it, and should you grow it? –
Peter Nitzsche, Rutgers and Crystal Stewart, ENYCHP

**9:55 AM Soil health and root diseases: a grower
perspective on the connection -**
Linley Dixon, Abode House Farm, Durango, Colorado

10:15 AM Adjourn

HANDS-ON WORKSHOP: CHOOSING AND USING THE RIGHT SMALL SPRAYER

ROOM 3

Session organized by Elizabeth Buck, CCE Cornell
Vegetable Program

10:45 AM Announcements, What's New from Industry

10:50 AM Overview of Sprayer & Nozzle Types
Elizabeth Buck, Cornell Vegetable Program

What kinds of sprayers are available and are the best use situations for each type? What kinds of nozzles should be used with the various sprayers, and how does the material being sprayed and target pest influence nozzle choice?

11:10 AM Sprayer Calibration Math Review –

Elizabeth Buck, Cornell Vegetable Program

Review calibration math and procedure, orient participants to the calibration reference resource. Worksheets will be provided for growers to follow along & practice the math.

11:20 AM Move to demonstration area

11:30 AM Growers Practice Hands On Sprayer Calibration *CCE Educators*

Growers will be broken down into small groups. Each group will work through a calibration scenario. Growers will have to select the correct nozzles and calculate the correct rates for their sprayer. They will then have to adjust the sprayer to ensure that each nozzle is delivering the right amount of material. CCE Educators will guide growers through the calibration process.

12:00 PM Adjourn

GARLIC

ROOM 3

Session Organized by: Crystal Stewart-Courtens, CCE
Eastern NY Commercial Horticulture Program

1:30 PM Announcements and DEC credit Sign-up –
*Crystal Stewart-Courtens, CCE Eastern NY Commercial
Horticulture Program*

**1:35 PM Fusarium management research update: Raised
beds, mulches, biocontrols and more -**
*Crystal Stewart-Courtens CCE ENYCHP and Robert Hadad,
CCE Cornell Vegetable Program*

2:05 PM What's New From Industry

**2:10 PM Fertility management for garlic—it's less than
you think!-**
Christy Hoepting, CCE Cornell Vegetable Program

2:30 PM Grower Innovations lightning round
*Growers share equipment innovations making garlic
growing on their farms more efficient*

3:00 Adjourn

THURSDAY, JANUARY 16

TABLE BEET WORKSHOP I: WHY GROW BEETS?

ROOMS 4/5/6

Session organized by Julie Kikkert, CCE Cornell Vegetable Program

10:45 AM Announcements and DEC Credit Sign-up – Julie Kikkert, CCE Cornell Vegetable Program

10:50 AM Everything Old is New Again: The Reemergence of the Table Beet –
Irwin Goldman, University of Wisconsin-Madison, Madison, Wisconsin

11:10 AM How Table Beets Fit into the Farm Operation: Tips and Challenges for Production and Marketing –
Grower Panel (Julie Kikkert, CCE Cornell Vegetable Program – Moderator)
Raymond Lurman, Fox Creek Farm, Schoharie, NY
Jason Gaylord, MY-T Acres, Batavia, NY
Ethan Ball, Schoharie Valley Farms, Schoharie, NY

12:00 PM Adjourn

TABLE BEET WORKSHOP II: THE DOWN & DIRTY ON PRODUCTION

ROOMS 4/5/6

Session organized by Julie Kikkert, CCE Cornell Vegetable Program

1:30 PM Announcements and DEC Credit Sign-up – Julie Kikkert, CCE Cornell Vegetable Program

1:35 PM Basic Beet Agronomy –
Steve Reiners, Horticulture/SIPS Cornell AgriTech

1:55 PM Identification of Foliar Pathogens and Best Management Practices for Cercospora Leaf Spot –
Sarah Pethybridge, PPPMB/SIPS, Cornell AgriTech

2:25 PM Rhizoctonia, the Most Prevalent Beet Root Pathogen in New York –
Eric Branch, PPPMB/SIPS, Cornell AgriTech

2:45 PM What's New From Industry

2:50 PM Stretch Break

3:00 PM Table Beet Breeding: The Slowest of the Performing Arts –
Irwin Goldman, University of Wisconsin-Madison, Madison, WI

3:30 PM Attributes of Commercially Available Table Beet Varieties
Lisa Leete, Sakata Seed America, Inc., Washington Boro, PA
Jason Plate, Bejo Seeds, Inc., Geneva, NY

3:55 PM Grow Beets, Not Weeds –
Julie Kikkert, CCE Cornell Vegetable Program

4:15 PM Cutworms, Wireworms, Leaf Miners and Beet Armyworms –
Julie Kikkert, CCE Cornell Vegetable Program

4:30 PM Adjourn

FFA STUDENT ORIENTATION

Room 4/5/6

Session organized by Elizabeth Buck, CCE Cornell Vegetable Program

9:00 AM Welcome, Chapter Role Call
Elizabeth Buck, Cornell Vegetable Program

FFA Student Orientation – Room 4/5/6
Session organized by Elizabeth Buck, CCE Cornell Vegetable Program

9:00 AM Welcome, Chapter Role Call
Elizabeth Buck, Cornell Vegetable Program

9:10 AM What is the Empire State Producer's Expo?
TBD

9:15 AM Overview of Vegetable & Fruit Production in NY
Steve Reiners, Horticulture/SIPS Cornell AgriTech
Janet Van Zoeren, Cornell Cooperative Extension – Lake Ontario Fruit Program
Laura McDermott, CCE ENYCHP

9:25 AM How do you provide quality grower education?
Elizabeth Buck, Cornell Vegetable Program

9:35 AM Panel Discussion: What's in it for me?
TBD
Ag careers, career paths, what's at the Expo, careers of future, necessary skill sets, key soft skills, incl. Q&A.

10:05 AM Orientation to the rest of the day
Elizabeth Buck, Cornell Vegetable Program

10:20 AM Session Adjourns