

CURRICULUM VITAE

Juliet E. Carroll

Fruit IPM Coordinator

New York State Integrated Pest Management Program

Joint Faculty

Department of Plant Pathology and Plant Microbe-Biology

Senior Extension Associate

Cornell University

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EDUCATION

<u>Year</u>	<u>Degree</u>	<u>Major</u>	<u>Institution</u>
1995	Ph.D.	Plant Pathology	Cornell University
1981	M.S.	Plant Pathology	University of Massachusetts
1978	B.S.	Botany	University of Maine

PRIMARY PROGRAM AREA

Coordinating the development and delivery of IPM practices for fruit crops statewide with the mission to minimize economic, health and environmental risks.

AREAS OF EXPERTISE

Plant pathology, epidemiology, virology, entomology, mycology, diagnostics, plant biology.

PROFESSIONAL OVERVIEW AND OBJECTIVES

Carroll is responsible for fostering arthropod, plant disease, weed, and vertebrate management by tree fruit, berry and grape growers of NY through IPM practices that minimize the use of pesticides. She works closely with Cornell Cooperative Extension educators, faculty, legislators, the fruit industry, consultants, and growers. Carroll directed the Plant Disease Clinic and 4H plant pathology program at Cornell and recently spent two years managing the multistate project on potato virus Y, which has emerged as a tuber quality disease worldwide. She has conducted research on Dutch elm disease, maple decline, wheat spindle streak mosaic, carrot leaf blights, grapevine powdery mildew, tarnished plant bug, blueberry diseases, bacterial canker of cherry, potato virus Y, and spotted wing drosophila. She is author of over 200 extension and research publications and authored a monograph for high school biology teachers. As Fruit IPM Coordinator she carries 20% research and 80% extension responsibilities. Her work on bacterial canker of sweet cherry determined the disease could be effectively managed with fewer copper bactericide sprays, using properly timed pruning practices. Carroll invented Trac Software, a pesticide spray record-keeping program promoting market traceability and meeting federal and state pesticide reporting requirements. Carroll is leader of the Network for Environment and Weather Applications (NEWA), newa.cornell.edu, a weather mesonet, that provides weather information and IPM tools via the Internet. Her collaborative research currently focuses on the invasive destructive insect spotted wing drosophila.

PROFESSIONAL EXPERIENCE

<u>Year</u>	<u>Experience</u>
2003 to present	Joint Faculty , Plant Pathology and Plant Microbe-Biology Department, Cornell University, Geneva, NY
2002 to present	Senior Extension Associate , Fruit IPM Coordinator, NYS IPM Program, Cornell Cooperative Extension, Geneva, NY
2010 to 2012	Senior Extension Associate , PVY Project Manager, Plant Pathology and Plant Microbe-Biology Department, Cornell University, Geneva, NY
2001-2002	Postdoctoral Associate , Carrot Leaf Blight IPM, Plant Pathology Department, Cornell University, Geneva, NY
1999-2001	Postdoctoral Associate , Grapevine Powdery Mildew, Plant Pathology Department, Cornell University, Geneva, NY
1996-1997	Consultant , K-12 Teacher Enrichment <i>Plant Path-Ways to Science</i> , The American Phytopathological Society
1991-1995	Research Assistant , Wheat Spindle Streak Mosaic Virus Epidemiology, Plant Pathology Department, Cornell University, Ithaca, NY
1994	Teaching Assistant , Advanced Mycology, Plant Pathology Department, Cornell University, Ithaca, NY
1991	Teaching Assistant , Mycology Teaching Collections, Plant Pathology Department, Cornell University, Ithaca, NY
1990-1991	Research Assistant , Plant Virus Molecular Biology, Plant Pathology Department, Cornell University, Ithaca, NY
1981-1989	Extension Associate , Plant Disease Diagnostician and 4-H Specialist, Plant Pathology Department, Cornell University, Ithaca, NY
1979-1981	Research Assistant , Sugar Maple Decline, Plant Pathology Department, University of Massachusetts, Amherst, MA
1981	Teaching Assistant , Forest Pathology, Plant Pathology Department, University of Massachusetts, Amherst, MA
1980	Teaching Assistant , Shade Tree Pathology, Plant Pathology Department, University of Massachusetts, Amherst, MA
1977-1978	Laboratory Technician , Dutch Elm Disease Management, Botany and Plant Pathology Department, University of Maine, Orono, ME

ACADEMIC RESPONSIBILITIES

CURRENT ADMINISTRATIVE RESPONSIBILITIES

Supervisor, Timothy H. Weigle, Senior Extension Associate, Grape IPM Area Educator.

Supervisor, Daniel L. Olmstead, Extension Associate, NEWA Coordinator.

Supervisor, Nicole Mattoon, Field Assistant II, Fruit IPM and NEWA.

Supervisor, Ryan Parker, Temporary Technician, Fruit IPM.

Coordinating Editor, Cornell Fruit Resources Page, www.fruit.cornell.edu.

Editor, Fruit IPM website, www.nysipm.cornell.edu/fruits.

PRIOR ADMINISTRATIVE RESPONSIBILITIES

Leader, Network for Environment and Weather Applications (NEWA), newa.cornell.edu, 2005-2017.

Supervisor, NYS IPM Program

Stephen Valentino, Temporary Technician, November 2014 - August 2015.

Tyler Solenne, Temporary Technician, June - August 2014 and June - August 2015.

Jacob Robinson, Temporary Technician, June - October 2014.

Linda DellaRosa, Temporary Technician, April - October 2013.

Michelle Marks, Temporary Technician, May 2012 - August 2013.

Marion Zuefle, Research Aide, December 2010 - September 2012.

Anne Lugg Alexander, Temporary Summer Technician, June - August 2012.

Kelsey Peterson, Temporary Summer Technician, May - August 2012.

Theodora Bucien, Research Aide, April 2008 - September 2010.

James Roll, Temporary Summer Technician, May - August 2006.

Judy Nedrow, Extension Support Aide, November 2003 - May 2006

Laboratory Safety, NYS IPM Program, 2008-2016.

EXTENSION/OUTREACH RESPONSIBILITIES

Cornell Cooperative Extension Program Work Team(s)

NYS IPM Program Work Team

IPM Operating Committee, Member

Fruit IPM Working Group, Member

Tree Fruit Program Work Team, Member

Viticulture and Enology Program Work Team, Member

Berry Program Work Team, Member

Internet Presence/Distance Learning

You're NEWA, blogs.cornell.edu/yourenewa/, author and administrator (2015-present).

Audience – NEWA weather station owners & contacts, NEWA state coordinators, research & extension faculty, Rainwise personnel.

Spotted Wing Drosophila blog, blogs.cornell.edu/swd1/, author and administrator (2013-present). Audience – agricultural producers, industry representatives, educators and faculty, spotted wing Drosophila information and reports.

Network for Environment & Weather Applications (NEWA) web site, newa.cornell.edu, leader (2005-present). Audience – agricultural producers, educators and faculty, weather data and weather-based IPM forecast models, 2 million page views/year.

Trac Software web site, nysipm.cornell.edu/trac/, developer (2004-present). Audience – fruit growers and Trac Software users, information about Trac record-keeping and reporting software.

Fruit IPM web pages, nysipm.cornell.edu/fruits/, coordinating editor (2003-present). Audience – fruit growers, consultants, extension educators, etc., contains fruit IPM resources.

Cornell Fruit Resources web site, www.fruit.cornell.edu, coordinating editor (2002-present).

Audience – fruit growers, consultants, educators, etc., information and links to fruit resources at Cornell University.

Managing Potato Virus Y in Seed Potato Production web site, www.potatovirus.com, managing editor (2010-2012). Audience – agricultural producers, seed certifiers, educators and researchers, information on PVY, picture gallery and data from the SCRI project.

Key Audiences and Scope of Impact

Agriculture – 2014 NY fruit production on 84,300 acres valued at \$345M

Tree Fruit Growers; local, national, international; problem solving/service; Northeast and Great Lakes; in New York approximately 45,000 acres with a production value of \$262M.

Berry Growers; local, national; problem solving/service; Northeast and Great Lakes; in New York approximately 2,400 acres with a production value of \$14M.

Grape Growers; national, local; problem solving/service; Northeast and Great Lakes; in New York approximately 37,000 acres with a production value of \$69M.

Cornell Cooperative Extension Programs

Eastern NY Commercial Horticulture Program; local; problem solving/service; Albany, Clinton, Columbia, Dutchess, Essex, Fulton, Greene, Montgomery, Orange, Rensselaer, Saratoga, Schenectady, Schoharie, Sullivan, Ulster, Warren, and Washington Counties, tree fruit, grapes and berry crops.

Finger Lakes Grape Program; local; problem solving/service; Ontario, Schuyler, Seneca, Steuben, Wayne and Yates counties, grapes.

Lake Erie Regional Grape Program; local; problem solving/service; Cattaraugus, Chautauqua, Niagara counties and Erie county PA, grapes.

Lake Ontario Commercial Fruit Program; local; problem solving/service; Monroe, Niagara, Orleans, Oswego, Wayne counties, tree fruit and berry crops.

South Central NY Agriculture Team; local; problem solving/service; Chemung, Cortland, Schuyler, Tioga, & Tompkins counties, tree fruit and berry crops.

Suffolk County Cornell Cooperative Extension; local; problem solving/service; Suffolk County, tree fruit, grapes and berry crops.

OTHER CURRENT PROFESSIONAL ACTIVITIES

PROFESSIONAL SOCIETIES

The American Phytopathological Society
Northeast Crop Consultants
New York State Horticultural Society
New York State Berry Growers Association

PROFESSIONAL HONORARIES

Gamma Sigma Delta, The Honor Society of Agriculture
Epsilon Sigma Phi, Lambda Chapter

COMMITTEE ASSIGNMENTS

International/National:

American Phytopathological Society, Northeastern Division, Symposium Committee (2010-2012)

International Working Group on Downy and Powdery Mildew of Grapevine (2002)

American Phytopathological Society, Office of Public Affairs and Education Board (1996-1999)
American Phytopathological Society, Youth Programs Committee (1982-1992, 1996-1999)

University:

Cornell Risk Analysis Studies Steering Committee (2002-2003)

College:

Senator At Large, CALS Faculty Senate (June 2014 to June 2017)

NYSAES Lee Library Committee (2010 to 2016)

Cornell Lake Erie Research & Extension Laboratory Steering Committee (2008-2011)

NYSAES Arboretum Association (2013-2016)

Department:

IPM Operating Committee, Member

Fruit IPM Working Group, Member

Mentor Committee for Marion Zuefle, Extension Associate, NYS IPM Program (2013-2016)

Mentor Committee for Anna Wallis, Extension Associate, Eastern NY Commercial Horticulture Program, CCE (2014-2017)

RESEARCH AND EXTENSION GRANT REVIEW PANELS

New York State Integrated Pest Management (IPM) Program – Fruit IPM Grant Review Panel

PRESENTATIONS, LIFETIME LIST

2016

Research

Spotted wing Drosophila update: hummingbird use, monitoring network, Cornell Fruit Field Day, Fruit PWT, Geneva, NY

Bacterial canker of sweet cherry, Cornell Fruit Field Day, Fruit PWT, Geneva, NY

Extension

Weather-Driven Tools for Agriculture: NEWA, the Network for Environment & Weather Applications, Upper Midwest Apple Show, Minnesota Apple Growers Association, La Crosse, WI

NEWA: How to Use the Apple Tools to Your Advantage, Upper Midwest Apple Show, Minnesota Apple Growers Association, La Crosse, WI

Spotted Wing Drosophila: A Threat to Berries and Stone Fruit, Winter Fruit School, Lake Ontario Fruit Program, Lockport, NY

Spotted Wing Drosophila: A Threat to Berries and Stone Fruit, Winter Fruit School, Lake Ontario Fruit Program, Newark, NY

Weather Tools for Ag: NEWA, Western NY Farm Show, Erie County CCE, Hamburg, NY

What is NEWA and how can it benefit apple growers, Southeastern Apple Growers Association Meeting, Southeastern Apple Growers Association, Asheville, NC

Using NEWA to maximize your apple thinning dollar and effectiveness, Southeastern Apple Growers Association Meeting, Southeastern Apple Growers Association, Asheville, NC

NEWA, how to get the most out of it, NE NY Winter Fruit School, Eastern NY Commercial Horticulture Program, Lake George, NY

NEWA workshop for apple growers, Hudson Valley Winter Fruit School, Eastern NY

Commercial Horticulture Program, Kingston, NY
NEWA workshop for grape growers, Hudson Valley Winter Fruit School, Eastern NY
Commercial Horticulture Program, Kingston, NY
NEWA, the Network for Environment & Weather Apps: crowd sourced, open access IPM
decision support, AMS Forum: Observing the Environment from the Ground Up,
American Meteorological Society, Washington, DC
Exploiting the vagaries of weather: NEWA, Crops and Soil Science Seminar Series, Section of
Crop and Soil Science, SIPS, Ithaca, NY
IPM Weather Apps and NEWA, IPM Toolbox Webinar Series, NE IPM Center, Ithaca, NY
Organizer, 2nd Annual IPM Conference - Climate, Weather, Data: Protecting Our Crops and
Landscapes, Climate, Weather, Data: Protecting Our Crops and Landscapes, NYS IPM
Program PWT, Voorheesville, NY
Exploiting the vagaries of weather with open access tools on the Network for Environment and
Weather Apps (NEWA), Climate, Weather, Data: Protecting Our Crops and Landscapes,
NYS IPM Program PWT, Voorheesville, NY
Arthropod phenology models provide IPM decision support apps on NEWA, Jugatae Seminar,
Dept of Entomology, Ithaca with polycom to Geneva, NY
The Network for Environment and Weather Apps (NEWA), CENICAFE visiting scientists,
CENICAFE, Geneva, NY
Disease forecasts in the cloud, in real time for real growers, Seminar Plant Pathology & Plant-
Microbe Biology (PPPMB) Section, PPPMB, Ithaca, NY
The Network for Environment and Weather Apps (NEWA), CCE EDEN annual meeting tour of
NYSAES, NYSAES for EDEN, Geneva, NY
Organizer, SWD IPM Working Group Meeting, NE IPM Center, Geneva
Resources to help growers deal with climate change effects, November Ag In-Service, Fruit
Track, CCE, Ithaca, NY
Horticulture apps on the Network for Environment and Weather Apps (NEWA), Seminar
Horticulture Section, Horticulture, Ithaca, NY
Disease forecasts in the cloud, in real time for real growers, Seminar Plant Pathology & Plant-
Microbe Biology (PPPMB) Section, PPPMB, Geneva, NY

2015

Research

Delivering site-specific applications to farmers in a knowledge network via cloud integration of
weather mesonets and proven predictive models. Carroll, J., Oudemans, P., Cooley, D.,
Clements, J., Robinson, D., Bradshaw, T., Crassweller, R., Concklin, M., Peter, K. and
DeGaetano, A. 2015. APS National Meeting, American Phytopathological Society
(APS), Pasadena, CA

Extension

Spotted Wing Drosophila Workshop, SWD Workshop, NYSBGA & Cornell University,
Voorheesville, NY
Introduction of SWD working group priorities survey, SWD Workshop, NYSBGA & Cornell
University, Voorheesville, NY
Demonstration and hands-on activity: Salt floatation to assess larval infestations of fruit, SWD
Workshop, NYSBGA & Cornell University, Voorheesville, NY

SWD monitoring network and online resources, SWD Workshop, NYSBGA & Cornell University, Voorheesville, NY

NEWA Planning Meeting, NEWA Planning Meeting, NEED-NERA planning grant, Geneva, NY

How to take advantage of NEWA weather and pest models, Mid Atlantic Fruit & Vegetable Conference, Penn State, etc., Hershey, PA

Improving the reliability of your weather station, NEWA workshop, Improving the reliability of your weather station, NEWA, ARDP grant, Geneva, NY

Improving the reliability of your weather station, NEWA workshop, Improving the reliability of your weather station, NEWA, ARDP grant, Geneva, NY

Spotted Wing Drosophila Workshop, SWD Workshop, NYSBGA & Cornell University, Batavia, NY

Introduction of SWD working group priorities survey, SWD Workshop, NYSBGA & Cornell University, Batavia, NY

Recognizing SWD symptoms, SWD Workshop, NYSBGA & Cornell University, Batavia, NY

Demonstration and hands-on activity: Salt floatation to assess larval infestations of fruit, SWD Workshop, NYSBGA & Cornell University, Batavia, NY

SWD monitoring network and online resources, SWD Workshop, NYSBGA & Cornell University, Batavia, NY

NEWA the Network for Environment & Weather Applications: History, present products, & future opportunities, Statewide IPM Grower Advisory Committee meeting, NYS IPM Program, Syracuse, NY

Delivery of weather and pest information via eNEWA, IPM Symposium, US IPM Centers, Salt Lake City, UT

Instantaneous mapping and blog alerts for spotted wing drosophila catches, IPM Symposium, US IPM Centers, Salt Lake City, UT

NEWA and real time IPM: how to make the most of web-based monitoring systems, Apple Orchard IPM, Eastern NY Commercial Horticulture Program, Plattsburg, NY

NEWA and real time IPM: how to make the most of web-based monitoring systems, Apple Orchard IPM, Eastern NY Commercial Horticulture Program, Ballston Spa, NY

Limiting Bird Damage in Fruit: State-of-the-Art Pest Management Tactics - A Vertebrate Damage Management Workshop, Limiting bird damage in fruit, Limiting bird damage in fruit, USDA SCRI & Paul Curtis, Dept. of Natural Resources, Cornell University, Ballston Spa

Fruit IPM, Hobart & William Smith Colleges, Dept of Biology, Geneva, NY

IPM in the small scale orchard, Ag In-Service, CCE, Ithaca, NY

NEWA, NY Soil & Water Conservation Society Board Meeting, NY Soil & Water Conservation Society, NYSAES, Geneva, NY

Building expertise and capacity for accurate Integrated Fruit Production models in the Network for Environment and Weather Applications (NEWA) – progress report, 11/19/2015, Apple Research & Development (ARDP) Program Board Meeting, ARDP, Geneva, NY

2014

Research

Bird Management in Fruit Crops: Economic, Consumer, and Biological Perspectives. Lindell, C.A., S. Shwiff, P. Curtis, P. Howard, K. Steensma, G. Linz, J. Boulanger, N. Rothwell,

J. Carroll, C. Oh, C. Burrows, M. Longstroth, C. Kaiser, D. Lusch, S. Wieferich, H. Henrichs, D. Leigh, M. Shave, R. Eaton, Z. Herrnstadt, A. Anderson. 2014. American Society for Horticultural Science Annual Meeting. Orlando, FL.

Extension

Using NEWA weather data for apple IPM., Long Island Ag Forum, Suffolk County CCE, Riverhead, NY

Spotted Wing Drosophila Trap Network - 2013, Empire State Producers Expo, Syracuse, NY

Spotted Wing Drosophila in Berry Crops, Berry Grower Workshop, Broome County CCE, Binghamton, NY

Spotted Wing Drosophila Workshop, Spotted Wing Drosophila Workshop, NYSAES, Geneva, NY

Introductions & SWD Monitoring for 2014, Spotted Wing Drosophila Workshop, NYSAES, Geneva, NY

Managing bird damage in vineyards, Spring IPM Field Meeting, Standing Stone Vineyards, Lodi, NY

Learning how to identify and control spotted wing Drosophila in berry and tree fruit, Lake Ontario Summer Fruit Tour, Orleans and Niagara Counties, NY

Building site-specific capacity by integrating weather networks and proven predictive models in NEWA, 7th Annual Meeting of the Midwest Weather Working Group, Minneapolis, MN

Spotted Wing Drosophila Working Group Meeting, Spotted Wing Drosophila Working Group Meeting, Highland, NY

Spotted wing Drosophila regional report - NY, Spotted Wing Drosophila Working Group Meeting, Highland, NY

Spotted wing drosophila monitoring network and blog, Cornell Small Fruit Open House, Ithaca, NY

Outreach on fruit damage management in NY, Limiting bird damage in fruit, SCRI project meeting, Bellingham, WA

Interesting and puzzling finds, 2014, Fruit Pest Management Meeting, Burlington, VT

NEWA funded project report, ARDP Board Meeting, Geneva, NY

Spotted wing drosophila projects report, NYSBGA Board Meeting, Geneva, NY

Spotted Wing Drosophila Workshop, SWD Workshop, Syracuse, NY

Introduction of SWD working group priorities survey, SWD Workshop, Syracuse, NY

Recognizing SWD symptoms, SWD Workshop, Syracuse, NY

Demonstration and hands-on activity: Salt floatation to assess larval infestations of fruit, SWD Workshop, Syracuse, NY

SWD monitoring network and online resources, SWD Workshop, Syracuse, NY

2013

Research

Emerging pests in fruit, Lake Ontario Winter Fruit School, Lockport, NY

Emerging pests in fruit, Lake Ontario Winter Fruit School, Sodus, NY

Spotted wing Drosophila - yet another invasive threatening NY fruit, Lake Ontario Winter Fruit School, Lake George, NY

Spotted wing Drosophila regional report for NY State, NE IPM SWD Working Group Meeting, Bridgeton, NJ

Extension

How to use Trac Software for fruit, Trac Software Workshop, Plattsburgh, NY
How to use Trac Software for fruit, Trac Software Workshop, Highland, NY
How to use Trac Software for fruit, Trac Software Workshop, Troy, NY
How to use Trac Software for fruit, Trac Software Workshop, Geneva, NY
Spotted Wing Drosophila, assisting dealing with an important invasive insect, Staff Meeting, NYS IPM Program, Geneva, NY
Introduction to plant pathology, IPM Training Sessions, Yorktown Heights, NY
IPM for fruit crops, IPM Training Sessions, Yorktown Heights, NY
Spotted wing Drosophila traps, monitoring network, blog, and online information, SWD Twilight Meeting, Trumansburg, NY
Spotted wing Drosophila trap network in New York, Summer Fruit Field Day, Geneva, NY
Spotted wing Drosophila: biology, crops of concern, best management practices, Chautauqua County Small Fruit Meeting, Portland, NY

2012

Research

Protecting sweet cherries from bacterial canker, Empire State Fruit and Vegetable Expo, Syracuse, NY
Pruning techniques for managing bacterial canker of sweet cherry, 7th International IPM Symposium, Memphis, TN
Site specific applications via integration of existing weather networks and proven predictive models, 7th International IPM Symposium, Memphis, TN

Extension

TracBerry workshop, Hudson Valley Fruit School, Kingston, NY
TracGrape & TracApple workshop, Long Island Horticultural Research and Extension Center, Riverhead, NY
TracGrape workshop, Cornell Lake Erie Research and Extension Laboratory, Portland, NY
TracApple workshop, Niagara County Cornell Cooperative Extension, Lockport, NY
TracApple workshop, Wayne County Cornell Cooperative Extension, Newark, NY
Organic guides and TracBerry record-keeping software from the NYS IPM Program, Berry School, Binghamton, NY
NEWA Resources for Implementation of IPM in Lake Erie Vineyards, 7th International IPM Symposium, Memphis, TN
TracGrape workshop, NYSAES, Geneva, NY

2011

Research

Evaluation of Pruning Techniques and Bactericides to Manage Bacterial Canker of Sweet Cherry, Great Lakes Fruit Workers Meeting, Grand Rapids, MI
Improving and Sustaining the NEWA System, Apple Research & Development Program (ARDP) Board Reporting Session, Geneva, NY
Evaluation of pruning techniques and bactericides for managing bacterial canker of sweet cherry, APS Annual Meeting, Honolulu, HI

Extension

NEWA – tools for IPM, Vermont Tree Fruit Growers Association Meeting, Middlebury, VT
Research on bacterial canker of sweet cherry, Hudson Valley Winter Fruit School, Kingston, NY

Updates to NEWA and TracGrape, Finger Lakes Grape Growers Conference, Waterloo, NY
Bacterial canker of sweet cherry, Lake Ontario Fruit Program Summer Tour, Newroyal
Orchards, Gasport, NY

Cornell Fruit Resources: A website indexing information from the Fruit Program Work Teams,
www.fruit.cornell.edu, New England, New York & Canadian Fruit Pest Management
Workshop, Burlington, VT

Cornell Fruit Resources – online access to viticulture and enology information for extension,
November Ag In-Service, CRAVE, Ithaca, NY

2010

Research

Results of a NY blueberry IPM survey, Empire State Fruit and Vegetable Expo, Syracuse, NY
Results of a survey of blueberry plantings for canker diseases, Cornell Fruit Field Days, Geneva,
NY

Extension

NEWA – weather app’s for your fruit farm, Lake Ontario Fruit School, Albion, NY

NEWA – weather app’s for your fruit farm, Lake Ontario Fruit School, Newark, NY

Status of fruit IPM Program and NEWA update, Petal Fall Meeting, Lake Ontario Fruit Program,
Newark, NY

Status of fruit IPM Program and NEWA update, Spring Grape IPM Meeting, Finger Lakes Grape
Program, Bluff Point, NY

Status of fruit IPM Program and NEWA update, Coffee Pot Meeting, Lake Erie regional grape
Program, Portland, NY

NEWA and TracGrape, American Society of Enology and Viticulture, Eastern Branch Meeting,
Geneva, NY

Weather stations for NEWA, Cornell Fruit Field Days, Geneva, NY

Bacterial canker of sweet cherry, Cornell Fruit Field Days, Geneva, NY

Current projects on the Network for Environment and Weather Awareness (NEWA), MidWest
Weather Working Group meeting, Charlotte, NC

NEWA – weather app’s for IPM (webinar), Wide Area Pest Monitoring, USDA CSREES

Limiting bird damage in fruit crops, New England, New York and Canada Fruit IPM Meeting,
Burlington, VT

New organic production guides available for blueberries and strawberries (webinar), Great Lakes
Fruit Workers Meeting, Ontario, Canada

2009

Research

Evaluation of pruning techniques and bactericides for managing bacterial canker on sweet
cherry, Great Lakes Fruit Workers Annual Meeting, Fishkill, NY

Results of a New York blueberry survey, Great Lakes Fruit Workers Annual Meeting, Fishkill,
NY

Evaluation of pruning techniques and bactericides for managing bacterial canker on sweet
cherry, 85th Annual Cumberland-Shenandoah Fruit Workers Conference, Winchester,
VA

Extension

The Science of Fire Blight (video), Empire State Fruit & Vegetable Expo, Syracuse, NY

IPM considerations for table grapes, Hudson Valley Winter Fruit School, Kingston, NY
Weather information for vineyards – available on NEWA, Finger Lakes Grape Growers Conference, Waterloo, NY
Fruit Program Work Team: Extension and IPM roles in statewide fruit production (poster), Cornell University Program Council Meeting, Ithaca, NY
IPM tactics for berry crops, Wyoming CCE, Warsaw, NY
NEWA weather information for vineyard IPM, Lake Erie Regional Grape Growers Conference, Fredonia, NY
The Network for Environment and Weather Applications (NEWA) delivers IPM forecasts for fruit and vegetable crops (poster), International IPM Symposium, Portland, OR
Trac Software improves pesticide record-keeping for the agricultural and turfgrass industries (poster), International IPM Symposium, Portland, OR
Collaborations for agriculture – NWS, NRCC, NEWA, NYSAES, NWS & NRCC meteorologists and Cornell scientists, Geneva, NY
NEWA pest forecasts and system integrity, Petal Fall Meeting, Lake Ontario Fruit Program, Fairville, NY
NEWA pest forecasts and system integrity, Petal Fall Meeting, Lake Ontario Fruit Program, Albion, NY
Collaborations for agriculture – NWS, NRCC, NEWA, NYSAES, NWS & NRCC meteorologists and Cornell scientists, Geneva, NY
NEWA information for grape growers, Coffee Pot Meeting, Lake Erie Regional Grape Program, Ransomville, NY
Bacterial canker control, Summer Fruit Tour, NYSAES, Geneva, NY
Fruit Program Work Team, Cornell Lake Erie Research & Extension Laboratory Ribbon Cutting - VIP Tour, Portland, NY
Cornell Fruit Resources: a web-based library for growers and extension educators, Great Lakes Fruit Workers Annual Meeting, Fishkill, NY
Additions to the NEWA weather network in Seneca County, CRAVE, CCE Ag & Food Inservice, Ithaca, NY
NEWA Train-the-Trainer Workshop, Hudson Valley Laboratory, Highland, NY
NEWA Train-the-Trainer Workshop, NYSAES, Geneva, NY, Western NY

2008

Research

Results of New York Blueberry Survey, Agriculture & Food Systems In-Service, Ithaca, NY

Extension

Orchard weed management for new and high density orchards, NE NY Winter Fruit School, Lake George, NY
IPM TracGrape, Hudson Valley Fruit School, Kingston, NY
TracApple record-keeping, Red Tomato EcoApple Grower Meeting, Belchertown, MA
Useful tools for TracGrape users, Finger Lakes Grape Growers Conference, Waterloo, NY
IPM elements for berry crops, Berry Pest Management Workshop, Geneva, NY
Fruit IPM in New York State: Discover, Implement and Extend, Plant Pathology Departmental Seminar, Geneva, NY
NEWA – Network for Environment and Weather Applications, National Weather Service, Binghamton, NY

Web-based IPM Resources for Tree Fruit, Agriculture & Food Systems In-Service, Ithaca, NY
NEWA Website Review, Geneva, NY
NEWA Website Review, Ballston Spa, NY

2007

Research

Contributions of copper sprays, pruning stubs, training system and cultivar towards management of *Pseudomonas*-incited cankers on sweet cherry, APS National Meeting, San Diego, CA
Effect of early-spring-pruning and copper sprays for managing bacterial canker of sweet cherry, APS Northeastern Division Annual Meeting, Burlington, VT
Managing bacterial canker of sweet cherry, Cornell Fruit Field Day, Geneva, NY
Managing bacterial canker of sweet cherry, Cornell Fruit Field Day, Great Lakes Fruit Workers Niagara Falls, Ontario, Canada

Instruction

The six steps of IPM with grape powdery mildew, High School Biology Students, NYSAES 125th Anniversary, Geneva, NY

Extension

IPM for Berry Crops, Jefferson County CCE, Watertown, NY
NEWA Update, Finger Lakes Spring Pest Management Meeting, Valois, NY
NYS IPM fact sheet sets for fruit - Free!, Cornell Fruit Field Day display, Geneva, NY
Trac Software 2007 Announced, Lake Ontario Winter Fruit School, Newark, NY
Trac Software Training, Hudson Valley CCE Fruit Program, Highland, NY
TracBerry demo and strawberry IPM, Oneida CCE, Marcy, NY
Weather stations for NEWA pest forecast modeling, Cornell Fruit Field Day, Geneva, NY
Update on the fruit IPM program, IPM Operating Committee, Ithaca, NY
NEWA – weather information for viticulture, CRAVE, Ag In-Service, Ithaca, NY
Trac software makes spray record-keeping and reporting easier, Berry Weed Workshop, Voorhesville, NY
Update on berry IPM activities, NYS Berry Growers Assoc. Board meeting, Geneva, NY
Integrated pest management for fruit crops, Schoharie County CCE, Cobleskill, NY
Strawberry IPM, Penn Yan Produce Auction Winter School, Penn Yan, NY

2006

Research

The impact of relative humidity and cultivar on the latent period of grapevine powdery mildew, APS National Meeting, Quebec City, Quebec, Canada
Bacterial Canker Management, Sweet Cherry Field Day, Geneva, NY
Delivering Weather-Related IPM Information to Apple Growers via the NYS IPM Program's NEWA System, Fifth National IPM Symposium, St. Louis, MO
Effect of Early-Spring-Pruning and Copper Sprays for Managing Bacterial Canker, NED APS Meeting, Burlington, VT
Importance of Early-Spring-Pruning Copper Sprays for Managing Bacterial Canker of Sweet Cherry, Cumberland-Shenandoah Fruit Workers Conference, Winchester, VA

Instruction

Berry Crops IPM, Berry Crops course, Dept. of Horticulture, Cornell University, Ithaca, NY

Extension

Getting Started with TracGrape, Finger Lakes Grape Growers Convention, Waterloo, NY
Grape IPM and grape diseases, Hudson Valley Grape Growers, Gardiner, NY
Integrated Fruit Production for Apples in New York State, Fifth National IPM Symposium, St. Louis, MO
IPM for Berry Crops, Schoharie County CCE, Cobleskill, NY
IPM projects of interest, NYS Dept. of Agriculture and Markets tour with US EPA, Geneva, NY
Sorting and Reporting with TracGrape, Finger Lakes Grape Growers Convention, Waterloo, NY
Strawberry IPM Tag Team, Marcy, NY
Trac Software, PMEP, Cornell University, Ithaca, NY
Trac Software Makes Spray Record-Keeping and Reporting Easier, Ontario Fruit & Vegetable Convention, St. Catharines, Ontario, Canada
Trac Software Round Table, NYFVI AIC meeting, Syracuse, NY
Trac Tutorial Demonstration, Hudson Valley Fruit School, Kingston, NY
TracGrape updates for 2006, Finger Lakes Spring Pest Management meeting, Dundee, NY
Utilizing NEWA Information for Informed IPM Intervention, Northeastern NY Fruit School, Lake George, NY
Utilizing NEWA Information to Inform IPM Intervention, Hudson Valley Fruit School, Kingston, NY
Utilizing NEWA Weather Information for Informed IPM Intervention, New England, New York & Canada Fruit Pest Management Meeting, Burlington, VT

2005

Extension

AIC - IPM Project Update, Marketing PWT, Ithaca, NY
Eurepgap Certification for Apple Growers, Great Lakes Expo, Grand Rapids, MI
EUREPGAP Certification Protocol for Apples Workshop, Highland, NY
Excel and TracApple Training, Williamson, NY
Excel and TracApple Training, Williamson, NY
Excel and TracApple Training, Williamson, NY
Excel and TracApple Training, Williamson, NY
Grape IPM, Pine Bush, NY
New Developments at Cornell's IPM Program to Meet Trade Standards, Dept. of Food Science and Technology, Geneva, NY
New Record-Keeping System for Pesticide and Nutrient Inputs, Lake Ontario Winter Fruit School, Newark, NY
New Record-Keeping System for Pesticide and Nutrient Inputs, Lake Ontario Winter Fruit School, Newark, NY
NEWA - New York's Network for Environment & Weather Awareness, Weather & IPM Conference, East Lansing, MI
NEWA-IPM's Network of Weather Stations, NACAA, Geneva, NY
NYS IPM Booth, Empire Farm Days, Seneca Falls, NY
Plant Pathology Update, Petal Fall Meeting, Niagara County
Plant Pathology Update, Petal Fall Meeting, Orleans County
Plant Pathology Update, Petal Fall Meeting, Wayne County
Plant Pathology Update, Petal Fall Meeting, Wayne County
Trac Software Demonstration, IPM Staff Meeting, Geneva, NY

Trac Software Makes Spray Record-Keeping and Reporting Easier, Cumberland-Shenandoah Fruit Workers Conference, Winchester, VA
Trac Software Makes Spray Record-Keeping and Reporting Easier, Great Lakes Expo, Grand Rapids, MI
TracGrape Record-Keeping Software Demonstration, Finger Lakes Grape Growers Convention, Waterloo, NY
TracGrape Record-Keeping Software Demonstration, Finger Lakes Grape Growers Convention, Waterloo, NY
TracGrape Software Demonstration, Lake Erie grape Growers Convention, Fredonia, NY

2004

Instruction

IPM discussion, AP Biology Class, South Seneca Central School, Ovid, NY

Extension

Addressing EUREPGAP certification for apple growers in New York State, Great Lakes Fruit Workers Conference, Guelph, Ontario, Canada
AEM Tier II Worksheets for Tree Fruit IPM (3 sessions), Waterloo, NY
Agricultural Innovation Center - CCE Informational Session; IPM Project, Ithaca, NY
Apple forecasts on NEWA, Lake Ontario Petal Fall meeting, Appleton, NY
EUREPGAP Certification Protocol for Apples Workshop, Albion, NY
EUREPGAP Certification Protocol for Apples Workshop, Highland, NY
EUREPGAP Certification Protocol for Apples Workshop, Albion, NY
EUREPGAP Certification Protocol for Apples Workshop, Newark, NY
EUREPGAP Certification Protocol for Apples Workshop, Lockport, NY
Grape IPM display booth, Empire Farm Days, Seneca Falls, NY
IPM Booth - Fruit IPM Fact Sheets, Apple Poster, TracApple, Northeastern NY Winter Fruit School, Lake George, NY
IPM booth - TracGrape, Lake Erie Grape Growers Convention, Fredonia, NY
IPM Booth - TracGrape & Fact Sheets, Finger Lakes Grape Growers Convention, Waterloo, NY
IPM Booth - Veg & Fruit Facts Sheets and TracApple, NY Fruit & Vegetable EXPO, Rochester, NY
IPM for Tree Fruit Using Predictive Models & the NEWA Weather Reporting System, Hudson Valley Winter Fruit School, Kingston, NY
IPM Labeling and Trac Software, AIC & NYFVI Board meeting, Syracuse, NY
IPM options and scouting techniques for berry crops, Summer Fruit Field Days, Geneva, NY
IPM strategies for berry crops, NY Fruit & Vegetable EXPO, Rochester, NY
Market Certification - Addressing EUREPGAP Standards in NY, Hudson Valley Winter Fruit School, Kingston, NY
NEWA Weather & Apple Forecasting Project, NE NY Petal Fall meeting, Clifton Park, NY
NYS IPM Program booth, Empire Farm Days, Seneca Falls, NY
Placing simulation research and cybernetic technology in the hands of grape growers., Summer Fruit Field Days, Geneva, NY
TracApple and TracGrape Excel-based records and reports for growers, Great Lakes Fruit Workers Conference, Guelph, Ontario, Canada
TracApple Training Session, Highland, NY
TracGrape & DMCast model for downy mildew, Finger Lakes Spring Pest Management

meeting, Dresden, NY
TracGrape record-keeping software, Fredonia, NY
TracGrape record-keeping software, Lake Erie Grape Growers Convention, Fredonia, NY
Update on Fruit IPM - EUREPGAP & TracApple, Statewide IPM Grower Advisory Committee, Syracuse, NY
Update on TracApple - Excel-based record-keeping system, NY Fruit & Vegetable EXPO, Rochester, NY

2003

Research

Demonstrating the effectiveness of an IPM program for the management of leaf blight diseases of carrots in New York, APS National Meeting, Charlotte, NC

Grape Powdery Mildew Research Results, NY Grape Growers Association, Dunkirk, NY

Extension

Apple IFP Field Project & Associated RAMP Project, Northeastern NY CCE Fruit Program, Clifton Park, NY

Apple IFP Field Project & Associated RAMP Project, Northeastern NY CCE Fruit Program Petal Fall Meeting, Saratoga County, NY

DMCast Model Running On NEWA, Finger Lakes CCE Grape Program Spring IPM Update, Dresden, NY

EUREPGAP Certification Protocol for Apples Workshop, Hudson Valley & Northeastern NY CCE Fruit Programs, Highland, NY

EUREPGAP Certification Protocol for Apples Workshop, Lake Ontario CCE Fruit Program, Newark, NY

Fruit IPM Program Update, Statewide IPM Grower Advisory Committee, Syracuse, NY

Fruit IPM Research Priorities, IPM Elements for Apples, and TracApple, Apple Research and Development Program (ARDP) Meeting, Geneva, NY

Grape IPM: Powdery Mildew & Downy Mildew, Grape Center at Empire Farm Days, Seneca Falls, NY

NYS Fruit IPM Program Perspective, NYS Berry Growers Association Meeting, Saratoga Springs, NY

NYS IPM Update & Berry IPM Elements, Great Lakes Fruit Workers Meeting, Ithaca, NY

Progress of Developing an Apple Integrated Fruit Production Protocol for New York, Great Lakes Fruit Workers Meeting, Ithaca, NY

The Grape IPM Program In NYS And Important Pests Of Grape, Hudson Valley CCE Fruit Program, Highland, NY

The Northeast Weather Association - continuous loop Powerpoint presentation NYS IPM booth, Viticulture 2003, Buffalo, NY

Trac Record-Keeping System- continuous loop Powerpoint presentation NYS IPM booth, Viticulture 2003, Buffalo, NY

TracApple & TracGrape, Lake Erie Regional Grape Program, Fredonia, NY

TracApple Software, Lake Ontario CCE Fruit Program Petal Fall Meeting, Orleans County, NY

TracApple Software, Northeastern NY CCE Fruit Program Petal Fall Meeting, Essex County, NY

TracGrape Spray Reporting System, Lake Erie Regional Grape Program, Fredonia, NY

Tracking & Predicting Crop Protection, Lake Ontario CCE Fruit Program Winter Fruit School,

Newark, NY

Tracking & Predicting Crop Protection, Lake Ontario CCE Fruit Program Winter Fruit School, Albion, NY

Tracking & Predicting Crop Protection, Hudson Valley Winter Fruit School, Kingston, NY

Tracking & Predicting Crop Protection, Northeastern NY Winter Fruit School, Lake George, NY

Weather Data Monitoring Equipment For Growers, Lake Ontario CCE Fruit Program Summer Fruit Tour

2002

Research

Carrot leaf blight diseases: biology, monitoring and control, Vegetable Growers Conference, Syracuse, NY

Different microclimates and powdery mildew severities associated with distance from the water in a 'Concord' vineyard adjacent to Lake Erie, International Powdery & Downy Mildew Workshop, Napa, CA

Effect of humidity on *Uncinula necator* and grapevine powdery mildew, International Powdery & Downy Mildew Workshop, Napa, CA

Instruction

IPM of Berry Crops Production, Guest Lecture, Berry Crops course, Dept. of Horticulture, Cornell University, Ithaca, NY

Extension

Overview of Fruit IPM Program, Farm Bureau, Cornell University, Geneva, NY

Plans for the Fruit IPM Program, Finger Lakes Spring Pest Management Meeting, Dresden, NY

2001

Research

Management of leaf blight and root-knot nematode on carrots in New York, CAR grant project meeting, East Lansing, MI

Physical mode of action of monopotassium phosphate against *Uncinula necator* infections on grape leaves, APS Northeastern Division Annual Meeting, Falmouth, MA

The Effect of Relative Humidity on *Uncinula necator* and the Development of Powdery Mildew on Grapevine, Dept. of Plant Pathology, Cornell University, Geneva, NY

2000

Research

The effect of relative humidity on grape powdery mildew development and pathogen sporulation, APS National Meeting, New Orleans, LA

1999

Instruction

American Phytopathological Society K-12 Biology Exercises , Exhibitor booth, National Science Teachers Association Convention, Boston, MA

1998

Instruction

APSnet K-12 Teachers' Site, Insect Expo, APS/ESA Joint National Meeting, Las Vegas, NV

See DNA the Easy Way, Insect Expo, APS/ESA Joint National Meeting, Las Vegas, NV
Water Molds, Insect Expo, APS/ESA Joint National Meeting, Las Vegas, NV

1997

Instruction

Plant Pathology for Middle- and High-School Biology Teachers Workshop, APS National Meeting, Rochester, NY
Plant Path-Ways to Science and the Youth Programs Committee, Leadership Workshop, APS National Meeting, Rochester, NY

1996

Instruction

Activities of the American Phytopathological Society: Youth Programs Committee, Dept. of Plant Pathology, Cornell University, Geneva, NY
Plant Pathology for Middle- and High-School Biology Teachers Workshop, APS National Meeting, Indianapolis, IN

1995

Instruction

Doctoring Plants, The Trumansburg Garden Club, Trumansburg, NY

1994

Research

Characterization of the disease cycle of wheat spindle streak mosaic in winter wheat in New York, APS National Meeting, Albuquerque, NM
Production of Polymyxa graminis zoospores in winter wheat using an automated flooding system, APS National Meeting, Albuquerque, NM
Characterization of the Disease Cycle of Wheat Spindle Streak Mosaic Virus in Winter Wheat, Dept. of Plant Pathology, Cornell University, Ithaca, NY
Characterization of the Disease Cycle of Wheat Spindle Streak Mosaic Virus in Winter Wheat, Dept. of Plant Pathology, Cornell University, Geneva, NY

Instruction

Learning Biology with Plant Pathology: a Monograph from the NABT, Plant Pathology Ideas and Techniques for Science Teachers Workshop, APS National Meeting, Albuquerque, NM

1993

Research

Antiserum to New York isolate of wheat spindle streak mosaic virus detects geographically diverse baymoviruses, APS National Meeting, Nashville, TN
Temporal aspects of winter wheat infection by wheat spindle streak mosaic virus (WSSMV) in New York, USA, 2nd Symposium IWGPVFFV, Montreal, Quebec, Canada

1992

Research

Detection of coat protein of wheat spindle streak mosaic virus is positively correlated with

characteristic symptom expression, APS National Meeting, Portland, OR

Instruction

Attack of the Hungry Caterpillars Workshop, Expand Your Horizons, Cornell University & USDA-ARS, Ithaca, NY

1991

Instruction

DNA Cloning Laboratory Module, Focus for Teens Workshop, Cornell Biotechnology Program & CCE, Ithaca, NY

1990

Instruction

DNA Cloning Laboratory Module, Focus for Teens Workshop, Cornell Biotechnology Program & CCE, Ithaca, NY

1989

Extension

Plant Pathology and Disease Diagnosis, Tompkins County CCE, Ithaca, NY

1988

Instruction

Plant Pathology Made Easy, CCE In Depth Week, 4-H Leader & Agent Training, Cornell University, Ithaca, NY

Extension

Basic Plant Pathology, CCE Regional Master Gardener Training, twice per year

Diagnosis of Plant Diseases, CCE Regional Master Gardener Training, Western NY

Overview of Activities of the Plant Pathology Diagnostic Laboratory, NYS Planning Committee for Survey and Management of Pests

Plant Diseases their Diagnosis and Treatment, RFD 6 television show by Robert Beyfuss, Greene County CCE

The Activities and Functions of the Plant Pathology Diagnostic Laboratory, Dept. of Plant Pathology, Cornell University, Ithaca, NY

1987

Instruction

Fun with Fungi Booth, Mushroom Day, Cornell Plantations, Ithaca, NY

Overview of Plant Pathology 4-H Projects, New Agent Orientation, Cornell University, Ithaca, NY

The Sick Talking Plant, CCE In Depth Week, 4-H Leader & Agent Training, Cornell University, Ithaca, NY

Update on Plant Pathology 4-H Projects, Regional In- Service Education

Extension

Bacterial Blight of Geranium, NYS Dept. of Ag. and Markets Hort. Inspectors Meeting, Syracuse, NY

Basic Plant Pathology, CCE Regional Master Gardener Training, twice per year

Collecting and Displaying Plant Disease Specimens, Master Gardener Conference, Cornell

University, Ithaca, NY
How to Field Questions on Plant Diseases and Submit Samples for Diagnosis, CCE Summer Assistant Training, Cornell University, Ithaca, NY
How to Send Plant Samples to the Diagnostic Laboratory, NYS Dept. of Ag. and Markets Hort. Inspectors Meeting, Syracuse, NY
How to Submit Plant Samples for Disease Diagnosis , Early In-Service CCE Agent Training, Cornell University, Ithaca, NY
Opportunities for Detecting Phytophthora in the Landscape , CCE Consumer Horticulture Agent Refresher Training, Cornell University, Ithaca, NY
Plant Doctor, Ithaca Spring Garden Fair and Plant Sale, Ithaca, NY

1986

Instruction

Cultural Practices in the Vegetable Garden and their Importance in Managing Plant Diseases, Men's Garden Club of Tioga County, Owego, NY
Overview of Plant Pathology 4-H Projects, New Agent Orientation, Cornell University, Ithaca, NY
Update on Plant Pathology 4-H Projects, Regional In- Service Education

Extension

Basic Plant Pathology, CCE Regional Master Gardener Training, twice per year
Diagnosis of Interior Plant Problems , Troubleshooting Plant Problems, CCE In-Service, Ithaca, NY
Diagnosis of Plant Diseases, CCE Regional Master Gardener Training, Central NY
Diseases of Herbaceous Flowering Plants , CCE Consumer Horticulture and Agriculture Agents In-Service, Cornell University, Ithaca, NY
How to Field Questions on Plant Diseases and Submit Samples for Diagnosis, CCE Summer Assistant Training, Cornell University, Ithaca, NY
How to Submit Plant Samples for Disease Diagnosis , Early In-Service CCE Agent Training, Cornell University, Ithaca, NY
Plant Doctor, Ithaca Spring Garden Fair and Plant Sale, Ithaca, NY
The Insect and Plant Disease Diagnostic Lab at Cornell , Hort. Inspector Society, Eastern Chpt., Bear Mt., NY

1985

Instruction

Growing Mushrooms , Video by Gary Zinsmeyer, Dutchess County CCE
Important Forest Tree Diseases & Wood Decay Fungi, Forest Pathology Exhibit, 4-H Adirondack Tour, Pack Forest, Warrensburg, NY
Overview of Plant Pathology 4-H Projects, New Agent Orientation, Cornell University, Ithaca, NY
Update on Plant Pathology 4-H Projects, Regional In- Service Education

Extension

Basic Plant Pathology, CCE Regional Master Gardener Training, twice per year
Collecting and Displaying Plant Disease Specimens, Master Gardener Conference, Cornell University, Ithaca, NY
Diseases of Annuals and Perennials, Diagnosis of Plant Diseases in the Residential Landscape

CCE Agent Summer Course, Cornell University, Ithaca, NY
How to Field Questions on Plant Diseases and Submit Samples for Diagnosis, CCE Summer Assistant Training, Cornell University, Ithaca, NY
How to Submit Plant Samples for Disease Diagnosis , Early In-Service CCE Agent Training, Cornell University, Ithaca, NY
Plant Doctor, Fall-In Festival, Cornell Plantations, Ithaca, NY
Plant Doctor, Ithaca Spring Garden Fair and Plant Sale, Ithaca, NY

1984

Instruction

Careers in Plant Pathology and Mycology, State 4-H Congress, Cornell University, Ithaca, NY
Overview of Plant Pathology 4-H Projects, New Agent Orientation, Cornell University, Ithaca, NY
Plant Disease Diagnosis, Biology of Plant Pathogens course, Dept. of Plant Pathology, Cornell University, Ithaca, NY
Small Fruit Diseases, Small Fruits course, Dept. of Pomology, Cornell University, Ithaca, NY
The Sick Talking Plant, 4-H Leaders Training, CCE, Oneida County
Update on Plant Pathology 4-H Projects, Regional In- Service Education

Extension

Basic Plant Pathology, CCE Regional Master Gardener Training, twice per year
How to Field Questions on Plant Diseases and Submit Samples for Diagnosis, CCE Summer Assistant Training, Cornell University, Ithaca, NY
Managing Plant Diseases, Horticultural Heyday, Ulster County CCE
Tree and Shrub Responses to Environmental Variables, Shade Tree Conf, Cattaraugus County CCE
Vegetable Diseases, CCE Regional Master Gardener Training, Western NY

1983

Instruction

Mushroom Growing, 4-H Leader's Forum, Cornell University, Ithaca, NY
Overview of Plant Pathology 4-H Projects, New Agent Orientation, Cornell University, Ithaca, NY
Plant Disease Diagnosis, Biology of Plant Pathogens course, Dept. of Plant Pathology, Ithaca, NY
Poisonous Plants , 4-H Conservation Day, Seneca County CCE
The Sick Talking Plant, 4-H Leaders Training, CCE, Orange County
Update on Plant Pathology 4-H Projects, Regional In- Service Education

Extension

Basic Plant Pathology, CCE Regional Master Gardener Training, twice per year
How to Field Questions on Plant Diseases and Submit Samples for Diagnosis, CCE Summer Assistant Training, Cornell University, Ithaca, NY
Plant Doctor, Fall-In Festival, Cornell Plantations, Ithaca, NY
Vegetable Diseases, CCE Regional Master Gardener Training, Eastern NY

1982

Instruction

Fun with Fungi, 4-H Field Day, Saratoga County CCE
Overview of Plant Pathology 4-H Projects, New Agent Orientation, Cornell University, Ithaca, NY

Update on Plant Pathology 4-H Projects, Regional In- Service Education

Extension

Basic Plant Pathology, CCE Regional Master Gardener Training, twice per year
How to Field Questions on Plant Diseases and Submit Samples for Diagnosis, CCE Summer Assistant Training, Cornell University, Ithaca, NY

1981

Research

Autumn root starch content and its relationship with the severity of decline symptoms in urban sugar maples, APS Northeastern Division Annual Meeting, Swan Lake, NY
Root Starch Content of Declining Urban Maples, Dept. of Plant Pathology, University of Massachusetts, Amherst, MA

1980

Research

Root starch content of declining urban maple trees, APS Northeastern Division Annual Meeting, Ithaca, NY

Instruction

Beech Bark Disease, Dept. of Plant Pathology, University of Massachusetts, Amherst, MA

PUBLICATIONS, LIFETIME LIST

Research – Refereed

- Mondal, S.; Lin, Y-H.; Carroll, J.E.; Wenninger, E.J.; Bosque-Perez, N.A.; Whitworth, J.L.; Hutchinson, P; Eigenbrode, S.; and Gray, S.M. 2016. Potato virus Y transmission efficiency from potato infected with single or multiple virus strains. *Phytopathology*. Accepted and published as “first look” version at <http://dx.doi.org/10.1094/PHYTO-09-16-0322-R>. Accessed January 9, 2017.
- Lindell, C.A.; Steensma, K.S.; Curtis, P.D.; Boulanger, J.R.; Carroll, J.E.; Burrows, C.; Lusch, D.P.; Rothwell, N.L.; Wieferich, S.L.; Henrichs, H.M.; Leigh, D.K.; Eaton, R.A.; Linz, G.M. 2016. Proportions of bird damage in tree fruits are higher in low-fruit-abundance contexts. *Crop Protection*. 90:40-48.
- Carroll, J.E., Smith, D.M. and Gray, S.M. 2016. Preferential acquisition and inoculation of PVY^{NTN} over PVY^O in potato by the green peach aphid *Myzus persicae* (Sulzer). *J. Gen. Virol.* 97: 797-802.
- Tancos, K. A., Villani, S. M., Borejsza-Wysocka, E., Kuehne, S., Breth, D., Carroll, J., Aldwinckle, H. S., and Cox, K. D. 2016. Prevalence of Streptomycin Resistant *Erwinia amylovora* in New York Apple Orchards. *Plant Disease* 100:802-809
<http://dx.doi.org/10.1094/PDIS-09-15-0960-RE>.
- Anderson, A., Lindell, C.A., Moxcey, K.M., Siemer, W.F., Linz, G.M., Curtis, P.D., Carroll, J.E., Burrows, C.L., Boulanger, J.R., Steensma, K.M.M., and Shwiff, S.A. 2013. Bird

- damage to select fruit crops: The cost of damage and the benefits of control in five states. *Crop Protection*. 52: 103-109.
- Fuchs, M., Abawi, G.S., Marsella-Herrick, P., Cox, R., Cox, K.D., Carroll, J. E., and Martin, R.R. 2010. Occurrence of Tomato ringspot virus and Tobacco ringspot virus in highbush blueberry in New York state. *J. Plant Pathol.* 92 (2) :451-459.
- Gugino, B.K., Carroll, J.E., Widmer, T.L., Chen, P. and Abawi, G.S. 2007. Field evaluation of carrot cultivars for susceptibility to fungal leaf blight diseases in New York. *Crop Protection* 26(5):709-714.
- Gugino, B.K., Carroll, J.E., Widmer, T.L., Chen, P. and Abawi, G.S. 2007. Development of an IPM program for fungal leaf blight diseases of carrot in New York. *Plant Disease* 91:59-65.
- Carroll, J.E. and Wilcox, W.F. 2003. Effect of humidity on the development of grapevine powdery mildew. *Phytopathology*. 93:1137-1144.
- Carroll, J.E., Bergstrom, G.C. and Gray, S.M. 2002. Assessing the resistance of winter wheat to wheat spindle streak mosaic virus. *Can. J. Plant Pathol.* 24:465-470.
- Carroll, J.E., Bergstrom, G.C. and Gray, S.M. 1997. Dynamics of wheat spindle streak mosaic bymovirus in winter wheat. *European Journal of Plant Pathology* 103:313-321.
- Carroll, J.E. 1995. Aspects of the biology and epidemiology of wheat spindle streak mosaic. Ph.D. Thesis, Cornell University, Ithaca. 115 pp.
- Carroll, J.E., Gray, S.M. and Bergstrom, G.C. 1995. Use of antiserum to a New York isolate of wheat spindle streak mosaic virus to detect related bymoviruses from North America, Europe, and Asia. *Plant Disease* 79:346-353.
- Carroll, J.E. and Provvidenti, R. 1989. First reported viral disease of Swedish ivy caused by alfalfa mosaic virus. *Plant Disease* 73:183.
- Carroll, J.E., Tattar, T.A. and Wargo, P.M. 1983. Relationship of root starch to decline of sugar maple. *Plant Disease* 67:1347-1349.
- Carroll, J.E. 1981. The relationship between autumn root starch content and decline symptoms in urban maple trees. M.S. Thesis, University of Massachusetts, Amherst. 48 pp.

Research – *Non-refereed*

- Carroll, J. 2016. New York CAPS Orchard Commodity Survey Targets – 2015 summary/final report. New York State IPM Program Project Report. Geneva, NY. 2 pp.
- Carroll, J. 2016. Spotted Wing Drosophila (SWD) trap network. Ann Report Smith-Lever Funded Projects, NYSAES, Geneva, NY. 7 pp.
- Carroll, J. 2015. Spotted wing Drosophila report for 2014. NYS IPM Program Project Report. 2 pp.
- Carroll, J. and Agnello, A. 2015. Orchard Commodity Survey – 2014. NYS IPM Program Project Report. 2 pp.
- Carroll, J., Oudemans, P., Cooley, D., Clements, J., Robinson, D., Bradshaw, T., Crassweller, R., Concklin, M., Peter, K. and DeGaetano, A. 2015. Delivering site-specific applications to farmers in a knowledge network via cloud integration of weather mesonets and proven predictive models. *Phytopathol.* 104: S4.24.
<http://apsjournals.apsnet.org/doi/pdf/10.1094/PHYTO-105-11-S4.1>
- Lindell, Catherine, Stephanie A. Shwiff, Paul D. Curtis, Philip H. Howard, Karen M.M. Steensma, George M. Linz, Jason R. Boulanger, Nikki Lynn Rothwell, Juliet E. Carroll, Chi-Ok Oh, Colleen L. Burrows, Mark A. Longstroth, Clive Kaiser, David P. Lusch,

- Shayna L. Wieferich, Heidi M. Henrichs, Deanna Leigh, Megan E. Shave, Rachael A. Eaton, Zachary B. Herrnstadt and Aaron M. Anderson. 2014. Bird Management in Fruit Crops: Economic, Consumer, and Biological Perspectives. Abstract ASHS meeting, Florida. #18825.
- Siemer, W., Curtis, P., Henrichs, H., Carroll, J., Lindell, C., and Schwiff, S. 2014. Grower perceptions of bird damage to New York Fruit Crops in 2011. *NY Fruit Quarterly* 22 (2): 25-28.
- Carroll, J. 2014. Orchard Commodity Survey – 2013. NYS IPM Program Project Report. 2 pp.
- Carroll, J. 2014. Spotted wing Drosophila trap network 2013. NYS IPM Program Project Report. 4 pp.
- Cox, K., Aldwinckle, H., Carroll, J. and Burr, T. 2013. Statewide survey for streptomycin-resistant fire blight in orchards. NYS IPM Program Project Report. 6 pp.
- Loeb, G. and Carroll, J. 2013. Phenology and spatial distribution of adult and larval spotted wing drosophila in small fruit, stone fruit, and wild hosts in New York. NYS IPM Program Project Report. 8 pp.
- Carroll, J., Burr, T., Robinson, T., Hoying, S., Cox, K. 2012. Pruning techniques and bactericides for managing bacterial canker of sweet cherry. Sweet Cherry, Great Lakes Expo, Grand Rapids, MI. pg4-7 glexpo.com/summaries/2012summaries/sweet_cherry.pdf.
- Carroll, J., Zaman, F., and Loeb, G. 2012. This “Ninja” Fruit Fly Cuts into Perfect Fruits – Spotted Wing Drosophila. *New York Fruit Quarterly*. 20:17-20.
- Carroll, J., Burr, T., Robinson, T., Hoying, S., Cox, K., and Zuefle, M. 2012. Pruning techniques for managing bacterial canker of sweet cherry. P158. 7th International IPM Symposium, Memphis, TN. www.ipmcenters.org/ipmsymposium12/158_Carroll.pdf
- Oudemans, P., Clements, J., Cooley, D., Bradshaw, T., Robinson, D., Berkett, L. and Carroll, J. 2012. Site specific applications via integration of existing weather networks and proven predictive models. P049. 7th International IPM Symposium, Memphis, TN. www.ipmcenters.org/ipmsymposium12/049_Clements.pdf
- Carroll, J., Burr, T., Robinson, T., Hoying, S., Cox, K. 2011. Evaluation of pruning techniques and bactericides for managing bacterial canker of sweet cherry. *Phytopathology* 101:S27.
- Weigle, T., Carroll, J. and Loeb, G. 2011. Validating a phenology-based degree-day model to improve timing for grape berry moth management. NYS IPM Program Project Report. 2 pp.
- Carroll, J., Fuchs, M., Cox, K. 2010. Results of a New York Blueberry Survey. NYS IPM Program Project Report.
- Carroll, J., Robinson, T., Burr, T., and Hoying, S. 2010. Effect of spring-pruning method, copper sprays and training systems on bacterial canker of sweet cherry. NYS IPM Program Project Report.
- Carroll, J.E., Robinson, T., Burr, T. Hoying, S., and Cox, K. 2010. Evaluation of pruning techniques and bactericides to manage bacterial canker of sweet cherry. *NY Fruit Quarterly* 18(1):9-15
- Carroll, J., Shaw, M., Breth, D., Iungerman, K., McKay, S., Heidenreich, C., Cox, K., and Fuchs, M. 2010. Results of a NYS Blueberry IPM Survey. *New York Berry News*. 9 (2):14-15.
- Carroll, J., Shaw, M., Breth, D., Iungerman, K., McKay, S., Heidenreich, C., Cox, K., and Fuchs, M. 2010. Results of a NYS Blueberry IPM Survey. *Proc. Empire State Fruit and Veg. Expo, Syracuse NY*. pp.73-74.

- Carroll, J., Hoying, S., Robinson, T., Burr, T., Cox, K., Bucien, T., Rugh, A. and Rosenberger, D. 2009. Evaluation of pruning techniques and bactericides for managing bacterial canker on sweet cherry. Proc. 85th Annual Cumberland-Shenandoah Fruit Workers Conference, pp 134-135.
- Carroll, J. 2009. Survey of blueberry plantings in New York. Cornell Univ., NYS IPM Program Project Reports 2008-2009, NYS IPM Pub No. 509. pp. 90-93.
- Carroll, J.E. 2009. Survey of blueberry plantings in New York. New York Berry News. 8:16-19.
- Carroll, J.E., Fuchs, M. and Cox, K. 2009. Results of a New York Blueberry Survey. New York Fruit Quarterly. 17(4):19-22.
- Carroll, J., Hoying, S., Robinson, T., Burr, T., Cox, K., Bucien, T., Rugh, A. and Rosenberger, D. 2009. Evaluation of pruning techniques and bactericides for managing bacterial canker of sweet cherry. 2009 Great Lakes Fruit Workers Meeting Abstracts, pp 30-31.
www.hrt.msu.edu/glfw/GLFW_2009_Abstracts/2009_15.pdf
- Carroll, J., Robinson, T., Burr, T., Hoying, S., and Bucien, T. 2009. Effect of spring-pruning method, copper sprays and training systems on bacterial canker of sweet cherry. Cornell Univ., NYS IPM Program Project Reports 2008-2009, NYS IPM Pub No. 509. pp. 83-85.
- Carroll, J., Shaw, M., Breth, D., Iungerman, K., McKay, S., Heidenreich, C., Cox, K., and Fuchs, M. 2009. Results of a New York Blueberry Survey. 2009 Great Lakes Fruit Workers Meeting Abstracts, pp 38-39.
www.hrt.msu.edu/glfw/GLFW_2009_Abstracts/2009_21.pdf
- Loeb, G., Carroll, J. and Cha, D.H. 2008. Understanding tarnished plant bug colonization as a basis for developing an attraction-based management system for berry crops. NY Fruit Quarterly. 16:17-22.
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