



Cornell Fruit Resources

A website indexing information from
the Fruit Program Work Teams

www.fruit.cornell.edu

Juliet Carroll, Marvin Pritts, Tim Martinson, Cathy Heidenreich, Craig Cramer and Marion Zuefle

Home Page

Cornell Fruit - Windows Internet Explorer

http://www.fruit.cornell.edu/

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About
News and Events
Newsletters

More Cornell sites
Including Fruit IPM, minor fruits, diagnostic labs, pesticide, plant nutrition, weather, business management and marketing information.

Information for commercial growers:

- **Tree fruit** - Apples, pears, peaches, plums, cherries, etc.
- **Grapes** - Juice-, wine- & table-grape viticulture, enology.
- **Berries** - Strawberries, blueberries, brambles (blackberries and raspberries), cranberries, currants and gooseberries.

Stay up to date:

- **Scaffolds Fruit Journal** - Weekly update on pest management and crop development.
- **New York Fruit Quarterly** - From the New York State Horticultural Society, Cornell University's New York State Agricultural Experiment Station at Geneva, and the New York State Apple Research and Development Program.
- **New York Berry News** - A statewide perspective on berry-crop production in New York.
- **Veraison to Harvest** - From extension viticulture and enology, a statewide weekly perspective, Sep to Oct, focusing on grape ripening and fruit quality.
- **Appellation Cornell** - Quarterly newsletter about programs, projects, and people associated with Cornell's viticulture and enology program.

[More newsletters.](#)

Information for Home Fruit Plantings

- [Cornell Guide to Growing Fruit at Home](#)
- [Pest Management Around the Home Part 1: Cultural Pest Management](#)
- [Pest Management Around the Home Part 2: 2009-2010 Pesticide Guidelines](#)
- [Cornell Gardening Resources Fruit Page](#)

New York State IPM Program
Fruit section includes factsheets, elements of IPM, Trac Software and more.

Get local help
From regional Extension fruit programs. **Not from New York?** Find local help [here](#).

New:
Viticulture 101: Info for new grape growers.

Organic guides for apples, grapes.

Study Viticulture and Enology at Cornell
New undergrad program.

Home Gardeners:
Cornell Guide to Growing Fruit at Home

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Tree Fruit Home Page

Cornell Fruit - Windows Internet Explorer

http://www.fruit.cornell.edu/tree_fruit/index.htm

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Tree fruit

Tree fruit topics:

- [Production](#)
- [IPM](#)
- [Post Harvest](#)
- [Food Safety](#)
- [Enology](#)
- [Value-Added](#)
- [Marketing](#)
- [Business Mgt.](#)
- [Labor](#)

Get local help from regional fruit programs or your local office of Cornell Cooperative Extension. Not from New York? Find local help [here](#).

NEWA
Network for Environment & Weather Applications

Search the Plant Management Network for Extension publications

Stay up to date:

- [Scaffolds Fruit Journal](#) - Weekly update on pest management and crop development.
- [New York Fruit Quarterly](#) - Archived back to 2000. Joint effort of the N.Y. State Horticultural Society, Cornell University's N.Y. State Agricultural Experiment Station at Geneva, and the N.Y. State Apple Research and Development Program.
- [More newsletters.](#)

Information for Home Fruit Plantings

- [Cornell Guide to Growing Fruit at Home](#)
- [Pest Management Around the Home Part 1:](#)

Featured resources:

Pest Management Guidelines for Commercial Tree Fruit Production
Production - Critical pesticide information for managing diseases, insects, mites, weeds, wildlife, nutrients and fruit thinning.

A Grower's Guide to Organic Apples [1.3 MB .pdf] - Includes information on variety- and site-selection, soil health, nutrient management and recommendations for how to manage insects, diseases, weeds and other pests using organic practices.

New York Integrated Fruit Production Protocol for Apples [1.3 MB .pdf] - Outlines eco-friendly ways to establish orchards, train and fertilize trees, thin fruit and manage insects, mites, diseases, weeds, and vertebrate pests.

NYS IPM Program - Site has insect and disease factsheets, Elements of IPM for apples and sweet cherries, Trac Software.

Good Agricultural Practices Network - Features food-safety curriculum, multilingual educational materials, record-keeping forms.

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Tree Fruit Production

Cornell Fruit - Windows Internet Explorer

http://www.fruit.cornell.edu/tree_fruit/GPGeneral.html

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Production - Tree Fruit

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- Food Safety
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- Business Mgt.
- Labor

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NEWA
Network for Environment & Weather Applications

Search the Plant Management Network for Extension publications

Production

- NY IFP Protocol for Apples (2006 FLS bulletin #158, 1.3 mb pdf)
- Pest Management Guidelines
- Agricultural Alternatives: Fact Sheets for New Producers (Penn State)
- Critical Spring Temperatures for Fruit Bud Development Stages (MSU Extension)
- Growth Stages in Fruit Trees (1976 FLS bulletin #58, 500 kb pdf)

Organic Production

- Organic Apple Production - A Beginner's Guide (2011, NCAT/ATTRA webinar video)
- A Grower's Guide to Organic Apples (2010, NYSIPM Program, 1.3 MB .pdf)
- Apples: Organic Production Guide (2011, ATTRA, subscription required)
- An Organic Apple Production System For New York (2003 NYS IPM report)
- Evaluation of Organic Pest Controls and Thinning on Multiple Apple Cultivars (2006 NYS IPM report)
- Evaluation of Pest Management Tactics for Organic Apple Production (2000, 54 kb pdf)

Featured resources:

New! A Grower's Guide to Organic Apples [1.3 MB .pdf] - Includes information on variety- and site-selection, soil health, nutrient management and recommendations for how to manage insects, diseases, weeds and other pests using organic practices.

Pest Management Guidelines for Commercial Tree Fruit Production - Critical pesticide information for managing diseases, insects, mites, weeds, wildlife, nutrients and fruit thinning.

New York Integrated Fruit Production Protocol for Apples [1.3 MB .pdf] - Outlines eco-friendly ways to establish orchards, train and fertilize trees, thin fruit and manage insects, mites, diseases, weeds, and vertebrate pests.

Site, Soil, Nutrient & Water Management

- Agro-One Services (soil testing)
- Cornell Soil Health Website
- Buffer pH to Derive Lime Guidelines
- Fertigation for Apple Trees in the Pacific NW (2009 NYFQ v. 17-4, 60 kb pdf)
- Nutritional Effects on Apple Fruit Quality (2009 NYFQ v. 17-3, 368 kb pdf)
- Nutrient Requirements of 'Gala'/M.26 Apple (2009 NYFQ v. 17-4, 1.86 mb pdf)
- Nitrogen and 'Gala' Fruit Size (2007 NYFQ v. 15-3, 510 kb pdf)

Cultivars & Rootstocks

- Susceptibility of Selected Apple Cultivars to Rusts (Plant Management Network)
- Susceptibility of Selected Apple Cultivars to Powdery Mildew (Plant Management Network)
- An Apple that Tastes Like Berries and One that Doesn't Brown (2008 CALS News article)
- New Apple Varieties, Trademarks and Clubs (2009 NYFQ v. 17-3, 309 kb pdf)
- Nursery Tree Architecture and Apple Rootstocks (2008 NYFQ v. 16-1, 816 kb pdf)
- Scab-resistant Cultivars (2008 NYFQ v. 16-4, 232 kb pdf)
- Antique Apples for Modern Orchards (2008 NYFQ v. 16-4, 3.34 mb pdf)
- The Apple Collection in Geneva, NY (2008 NYFQ v. 16-1, 6.57 mb pdf)
- Apple Genes for Disease Resistant Varieties (2007 NYFQ v. 15-2, 693 kb pdf)

Tree Training, Pruning & Planting Systems

- Tall Spindle System: Planting, Pruning, and Training
- Vertical Axis System: Planting, Pruning, and Training
- Slender Pyramid System: Planting, Pruning, and Training
- Slender Axis System: Planting, Pruning, and Training
- Planting and Establishing High-Density Apple Orchards (2007 NYFQ v. 15-4, 298 kb pdf)
- More Competitive Apple Orchard Systems in NY (2007 NYFQ v. 15-1, 584 kb pdf)
- Peach Planting Systems (2007 NYFQ v. 15-4, 239 kb pdf)

Pollination

- Insect Pollination of Cultivated Crop Plants (1976/2009 USDA ARS)
- Managing Alternative Pollinators: A Handbook (NRAES book)
- Dyce Laboratory for Honey Bee Studies
- Optimizing Pollination of Fruit Crops (2005)
- Beekeepers with bees available for contract pollination

Thinning & Growth Regulators Home Orchard

- Cornell Guide to Growing Fruit at Home (2003)
- Minor Fruits - Under-used trees and shrubs for edible landscaping.
- Growing Stone Fruits in New York (1994 Ecogardening Factsheet #12)
- Retain Combined with NAA Controls Pre-harvest Drop (2010 NYFQ v. 18-3, 976 kb pdf)
- Crop Load Management for Honeycrisp Apples (2009 NYFQ v. 17-1, 4.38 mb pdf)
- Crop Load Management of High-Density Apple Orchards (2008 NYFQ v. 16-2, 1.38 mb pdf)
- Improving Cherry Fruit Size of Self-Fertile Cultivars (2008 NYFQ v. 16-3, 318 kb pdf)
- Chemical Peach Thinning (2008 NYFQ v. 16-4, 520 kb pdf)
- Using a Carbohydrate Thinning Model (2007 NYFQ v. 15-3, 515 kb pdf)

Tree Fruit General Production Archives

N.Y. Fruit Quarterly - Archived back to 2000. Joint effort of the N.Y. State Horticultural Society, Cornell University's N.Y. State Agricultural Experiment Station at Geneva, and the N.Y. State Apple Research and Development Program.

- More newsletters.
- More Cornell websites.

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Tree Fruit IPM

Cornell Fruit - Windows Internet Explorer

http://www.fruit.cornell.edu/tree_fruit/IPMGeneral.html

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IPM - Tree Fruit

Tree fruit topics:

- Production
- IPM
- Post Harvest
- Food Safety
- Enology
- Value-Added
- Marketing
- Business Mgt.
- Labor

Get local help from regional fruit programs or your local office of Cornell Cooperative Extension.

NEWA
Network for Environment & Weather Applications

Search the Plant Management Network for Extension publications

General Information

- Pest Management Guidelines
- Fruit IPM Research Priorities
- NY IFP Protocol for Apples (2006, FLS bulletin #158, 5.3 mb pdf)
- Elements of IPM for Apples
- Elements of IPM for Sweet Cherries
- Apple IPM Poster
- NYS IPM Project Reports
- NYS IPM Fact Sheets
- NEWA Apple Home Page - Pest Forecast Models
- Validation of a "Real-Time" Apple IPM Website (2010 NYFQ v. 18-2, 851 kb pdf)

Featured resources:

IPM NYS IPM Program - Site has insect and disease factsheets, Elements of IPM for apples and sweet cherries, Trac Software and more.

New! A Grower's Guide to Organic Apples [1.3 MB .pdf] - Includes information on variety- and site-selection, soil health, nutrient management and recommendations for how to manage insects, diseases, weeds and other pests using organic practices.

Pest Management Guidelines for Commercial Tree Fruit Production

Pest Management Guidelines for Commercial Tree Fruit Production - Critical pesticide information for managing diseases, insects, mites, weeds, wildlife, nutrients and fruit thinning.

PMEP Distance Learning Center - On-line pesticide applicator courses qualify for New York DEC recertification credits. Partnership between **PMEP** and the **NYS IPM Program**.

Tree Fruit IPM Project - Provides 'real time' information about the development of key orchard insect pests and diseases through the season. Joint project between **PMEP** and **NYSIPM**.

Lepidopteran Pest Trap Network - View trap reports for codling moth, oriental fruit moth and lesser appleworm from a dozen sites.

Hudson Valley Trap Network - View apple insect trap reports and degree day models from ten sites.

Order NRAES books

- Tree Fruit Field Guide (2006, NRAES book #169)
- Mid-Atlantic Orchard Monitoring Guide (1995, NRAES book #75)
- Implementing Pheromone Technology in the Northeast (1996, NRAES book #83)

Insects & Mites

- NEWA Apple Insect Models
- Scouting and Monitoring Forms
- Brown marmorated stink bug resources, tracking
- **More...**

Diseases

- NEWA Apple Disease Models
- Diagnostic Keys for Diseases on Apple, Peach, and Cherry Trees (1984 FLS bulletin #108, 162 kb pdf)
- Diagnostic Keys to Tree Fruit Diseases
- Tree Fruit and Berry Pathology Website
- **More...**

Weeds & Groundcovers

- Considerations for Herbicide Selection (2006, Uni. of Delaware, 36 kb pdf)
- The Effects of Ground Cover Manipulations on Pest and Predator Mite Populations (1989 FLS bulletin #128, 977 kb pdf)

Wildlife

- Northeast Wildlife Damage Management Cooperative

Biological Control & Beneficial Insects

- Predatory Mites (NYS IPM factsheet)
- Beneficial Insects (NYS IPM factsheet)
- Phytophagous Mirid Bugs (NYS IPM factsheet) 497 kb pdf
- Western Predatory Mite (1993)
- The Effects Of Ground Cover Manipulations On Pest And Predator Mite Populations (1989 FLS bulletin #128, 977 kb pdf)

Organic IPM

- Organic Apple Production - A Beginner's Guide (2011, NCAT/ATTRA webinar video)
- A Grower's Guide to Organic Apples (2010, NYSIPM Program, 1.3 MB .pdf)
- Apples: Organic Production Guide (2011, ATTRA, subscription required)
- Evaluation of Pest Management Tactics for Organic Apple Production (2000, 54 kb pdf)
- Organic Materials Review Institute (OMRI)
- OMRI Products List
- Biopesticide and Organic Pesticide Search (IR-4)
- Pear Psylla Management Strategies - Conventional and Organic (2007 NYFQ v. 15-2, 640 kb pdf)

Spray Technology

- Orchard Spraying
- Calibration of Airblast Sprayers Part 1 - Nozzles (2008 YouTube video)
- Calibration of Airblast Sprayers Part 2 - Liquid Flow (2008 YouTube video)
- Pesticide Application Technology
- Vertical Patternator

Pesticides

- Pest Management Guidelines
- NYS PIMS
- Pesticide Safety Education Program
- Pesticide Management Education Program
- Biopesticides (EPA)
- OMRI Products List
- Biopesticide and Organic Pesticide Search (IR-4)
- Env. Impact Quotient (EIQ) Table (135 kb pdf)
- Trac Software
- Apple scab fungicide resistance testing

Home Orchard

- Cornell Guide to Growing Fruit at Home (2003)
- Help Fight Plum Pox Virus (2008 News release)
- Fruit Production for the Home Gardener (Penn State - book)
- Plant Disease Diagnostic Clinic Fruit Factsheets
- Insect Diagnostic Laboratory Factsheets

Tree Fruit IPM Archives

Apple scab fungicide resistance testing

Scaffolds Fruit Journal - Weekly update on pest management and crop development.

Tree Fruit & Berry Pathology - From the Tree Fruit and Berry Pathology group in Geneva.

- Lake Ontario Fruit Fax
- Hudson Valley Alerts
- More newsletters
- More Cornell websites.

More... Tree Fruit IPM Insects & Mites

Cornell Fruit - Windows Internet Explorer

http://www.fruit.cornell.edu/tree_fruit/IPMInsects&Mite

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Tree Fruit IPM: Insects & Mites

Tree fruit topics:

- Production
- IPM
- Post Harvest
- Food Safety
- Enology
- Value-Added
- Marketing
- Business Mgt.
- Labor

Get local help from regional fruit programs or your local office of Cornell Cooperative Extension.

General

- NEWA Apple Insect Models
- Insects Associated with Apple in the Mid-Atlantic States (1988 FLS bulletin #124, 1.0 mb pdf)
- Scouting & Monitoring Forms

Leaf Damage

- Spotted Tentiform Leafminer (NYS IPM factsheet) 237 kb pdf
- Sampling Second Generation Spotted Tentiform Leafminer (1993 FLS bulletin #143, 582 kb pdf)
- White Apple Leafhopper (NYS IPM factsheet) 168 kb pdf
- Pear Psylla (NYS IPM factsheet) 218 kb pdf
- Pear Psylla Management Strategies - Conventional and Organic (2007 NYFQ v. 15-2, 640 kb pdf)

Leafrollers

- Redbanded Leafroller (NYS IPM factsheet) 291 kb pdf
- Obliquebanded Leafroller (NYS IPM factsheet) 241 kb pdf
- Management Techniques for Obliquebanded Leafroller (2008 NYFQ v. 16-2, 3.13 mb pdf)
- Obliquebanded Leafroller Management for Apple (2007 NYFQ v. 15-3, 784 kb pdf)

Aphids

- Rosy Apple Aphid (NYS IPM factsheet) 190 kb pdf
- Woolly Apple Aphid (NYS IPM factsheet) 228 kb pdf

External Fruit Damage

- Plum Curculio (NYS IPM factsheet) 232 kb pdf
- Tarnished Plant Bug (NYS IPM factsheet) 247 kb pdf
- Phytophagous Mird Bugs (NYS IPM factsheet) 497 kb pdf
- Mullein Plant Bug (Cornell Biological Control factsheet)
- Comstock Mealybug (NYS IPM factsheet) 290 kb pdf
- Brown Marmorated Stink Bug (Northeast IPM Center, 214 kb pdf)
- Obliquebanded Leafroller (NYS IPM factsheet) 241 kb pdf
- Hudson Valley Stink Bug Management (2008 NYFQ v. 16-3, 398 kb pdf)

Internal Fruit Feeders

- Codling Moth (NYS IPM factsheet) 278 kb pdf
- Oriental Fruit Moth (NYS IPM factsheet) 274 kb pdf
- Apple Maggot (NYS IPM factsheet) 270 kb pdf
- Green Fruitworm (NYS IPM factsheet) 241 kb pdf
- Green Fruitworms (1974 FLS bulletin #50, 319 kb pdf)
- European Apple Sawfly (NYS IPM factsheet) 309 kb pdf
- Using Sticky Traps to Monitor Fruit Flies in Apple and Cherry Orchards (1978 FLS bulletin #70, 302 kb pdf)
- Cherry Fruit Fly and Black Cherry Fruit Fly (NYS IPM factsheet) 229 kb pdf
- Plum Curculio (NYS IPM factsheet) 232 kb pdf
- Pheromone Products for Codling Moth and Oriental Fruit Moth (2009 NYFQ v. 17-1, 3.44 mb pdf)
- Pheromone Dispensers for Mating Disruption of Internal Lep's (2007 NYFQ v. 15-4, 1.33 mb pdf)

Wood-Boring

- Dogwood Borer (NYS IPM factsheet) 249 kb pdf
- Peachtree Borer (NYS IPM factsheet) 275 kb pdf
- American Plum Borer (NYS IPM factsheet)
- Apple Boring Beetles (NYS IPM factsheet)
- Apple Burrknot Borers in New York (2003, 24 kb pdf)
- Controlling Dogwood Borer with an Antagonistic Sex Pheromone (2010 NYFQ v. 18-3, 288 kb pdf)

Scale Insects

- San Jose Scale (NYS IPM factsheet) 201 kb pdf

Mites

- European Red Mite (NYS IPM factsheet) 250 kb pdf
- Predatory Mites (NYS IPM factsheet)
- Sampling Second Generation Spotted Tentiform Leafminer (1993 FLS bulletin #143, 582 kb pdf)
- The Effects of Ground Cover Manipulations on Pest and Predator Mites (1989 FLS bulletin #128, 977 kb pdf)

More... Tree Fruit IPM Diseases

Cornell Fruit - Windows Internet Explorer

http://www.fruit.cornell.edu/tree_fruit/IPMDiseases.htm

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Tree Fruit IPM: Diseases

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- Value-Added
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- Business Mgt.
- Labor

Get local help from regional fruit programs or your local office of Cornell Cooperative Extension.

General

- NEWA Apple Disease Models
- Diagnostic Keys for Diseases on Apple, Peach, and Cherry Trees (1984 FLS bulletin #108, 162 kb pdf)
- Diagnostic Keys to Tree Fruit Diseases
- Tree Fruit and Berry Pathology Website
- Apple Genes for Disease Resistant Varieties (2007 NYFQ v. 15-2, 693 kb pdf)

Apple Scab

- Apple Scab (NYS IPM factsheet)
- Apple scab fungicide resistance testing
- Scab-Resistant cultivars
- Apple Scab Management in High-Inoculum Orchards (2010 NYFQ v. 18-1, 567 kb pdf)
- Scab-resistant Cultivars (2008 NYFQ v. 16-4, 232 kb pdf)

Fireblight

- Fire Blight (NYS IPM factsheet) 420 kb pdf
- Maryblt V.7 for Windows - Fire blight forecasting software (Kearneysville TFREC)
- Slowing the Spread of Fire Blight During Summer (2010 NYFQ v. 18-2, 945 kb pdf)
- Fire Blight and Streptomycin Resistance (2009 NYFQ v. 17-1, 2.9 mb pdf)
- Managing Fire blight in New Apple Plantings (2008 NYFQ v. 16-1, 1.8 mb pdf)
- Blossom Blight Epidemiology (2008 NYFQ v. 16-3, 153 kb pdf)

Summer Diseases

- Sooty Blotch and Fly Speck (NYS IPM factsheet) 291 kb pdf
- Timing Summer Fungicides for Flyspeck on Apples (2007 NYFQ v. 15-1, 147 kb pdf)

Powdery Mildew & Rust Diseases

- Cedar Apple Rust (NYS IPM factsheet) 255 kb pdf
- Susceptibility of Selected Apple Cultivars to Rusts (Plant Management Network)
- Powdery Mildew of Apple (NYS IPM factsheet) 418 kb pdf
- Powdery Mildew of Stone Fruit (Rusty Spot) (Kearneysville TFREC factsheet)
- Powdery Mildew of Cherry (Kearneysville TFREC factsheet)
- Susceptibility of Selected Apple Cultivars to Powdery Mildew (Plant Management Network)
- Fungicide Programs for Apple Powdery Mildew (2007 NYFQ v. 15-3, 701 kb pdf)

Leaf Diseases

- Cherry Leaf Spot (Kearneysville TFREC factsheet)
- Fabraea Leaf Spot (Kearneysville TFREC factsheet)
- Peach Leaf Curl (Kearneysville TFREC factsheet)
- Bacterial Canker of Sweet Cherry (Kearneysville TFREC factsheet)

Virus & Phytoplasma Diseases

- Plum Pox Disease of Stone Fruits (NYS IPM factsheet, 949 kb pdf)
- Geneva Experiment Station Helps NY Fight Plum Pox Virus (2008 Cornell Chronicle article)
- Pome Fruit: Diseases Caused by Viruses (2003, Washington State University NRSP5)
- Pear Virus Diseases (Kearneysville TFREC factsheet)
- Prunus Stem Pitting Virus (Kearneysville TFREC factsheet)
- X-Disease (Kearneysville TFREC factsheet)

Scaffold, Crown & Root Diseases

- Bacterial Canker of Sweet Cherry (Kearneysville TFREC factsheet)
- Black Knot of Plum (NYS IPM factsheet) 282k pdf
- Perennial Canker (NYS IPM factsheet) 402k pdf
- Wood Rots (Kearneysville TFREC factsheet)
- Crown Gall of Apple (Penn State factsheet)
- Nectria Canker (Kearneysville TFREC factsheet)
- Phytophthora Root and Crown Rot (NYS IPM factsheet) 352k pdf
- Pruning Techniques to Manage Bacterial Canker (2010 NYFQ v. 18-1, 1.77 mb pdf)
- Canker Problems in Apple Orchards (2007 NYFQ v. 15-4, 1.8 mb pdf)

Diseases Affecting Fruit

- Blister Spot of Apple (1982 FLS bulletin #95, 391 kb pdf)
- Black Rot (Kearneysville TFREC factsheet)
- Bitter Rot (Kearneysville TFREC factsheet)
- White Rot (Kearneysville TFREC factsheet)
- Brook's Spot (Kearneysville TFREC factsheet)
- Pear Scab (Kearneysville TFREC factsheet)
- Peach Scab (Kearneysville TFREC factsheet)
- Bacterial Spot of Peach (Kearneysville TFREC factsheet)
- Brown Rot of Stone Fruit (NYS IPM factsheet) 276k pdf

Postharvest Diseases

- Blue Mold (Kearneysville TFREC factsheet)
- Mucor Rot (Penn State factsheet)
- Market Diseases of Apples, Pears and Quinces (1971, Washington State University TFREC)
- Biocontrol of Fruit Rots (2008)

Tree Fruit Post Harvest

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http://www.fruit.cornell.edu/tree_fruit/PHFSGeneral.htm

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Post Harvest & Food Safety - Tree Fruit

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- Business Mgt.
- Labor

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Order NRAES Books

- [Apple Harvesting, Handling and Storage](#) (1997, NRAES book #112)
- [Sensors for Nondestructive Testing](#) (1997, NRAES book #97)
- [Refrigeration and Controlled Atmosphere Storage](#) (1990, NRAES book #22)
- [Produce Handling for Direct Marketing](#) (1992, NRAES book #51)

Featured resources:

Food Safety Begins on the Farm
GAPs Network - Good Agricultural Practices Network site features food-safety curriculum, multilingual educational materials, record-keeping forms and more.

GAP/GHP Food Safety Audit - Voluntary, audit-based program from USDA-AMS in partnership with state departments of agriculture verifies adherence to the FDA recommendations.

Northeast Center for Food Entrepreneurship - Provides comprehensive assistance to food entrepreneurs. Includes [technical guide](#), [factsheets](#), and more.

The Technology Farm - R&D park in Geneva, N.Y., for food, ag and bio-based collaboration with Cornell University.

- Newsletters
- More Cornell websites

Post Harvest

- [Feasibility of Sanitizing Apple Field Bins](#) (2001 NYS IPM report)
- [Meeting Export Requirements through EUREPGAP](#) (2005 NYS IPM report, 97 kb pdf)
- [Summary Statistics for Fruits and Berries](#) (2008 USDA report, 82 kb pdf)
- [Predicting Harvest Date Windows for Apples](#) (1992 CCE bulletin #221, 1.3 mb pdf)
- [Market Diseases of Apples, Pears and Quinces](#) (1971, Washington State University)
- [Glyphosate Exposure Contributes to Internal Browning of Apples](#) (2010 NYFQ v. 18-3, 394 kb pdf)
- [Storage Disorders of CA-Stored Empire Apples](#) (2010 NYFQ v. 18-3, 578 kb pdf)
- [Failure of Treatments against Firm Flesh Browning in Empire Apples](#) (2010 NYFQ v. 18-3, 612 kb pdf)
- [Internal Browning in Empire Apples and Harvest Date](#) (2010 NYFQ v. 18-2, 658 kb pdf)
- [Fungicides, Biocides, and Sanitizers for Postharvest Pathogens in Apples](#) (2009 NYFQ v. 17-3, 942 kb pdf)
- [Postharvest Physiological Disorders and Mineral Nutrients](#) (2009 NYFQ v. 17-3, 391 kb pdf)
- [Shelf-life Extension in Sweet Cherries with Modified Atmosphere Packaging](#) (2009 NYFQ v. 17-2, 491 kb pdf)
- [Application of SmartFresh to Apples is More Important Than Rapid CA](#) (2008 NYFQ v. 16-3, 160 kb pdf)
- [Flesh Browning Disorder of 'Pink Lady' Apples](#) (2008 NYFQ v. 16-2, 593 kb pdf)
- [Dynamic Controlled Atmosphere Storage](#) (2008 NYFQ v. 16-1, 3.73 mb pdf)
- [Shelf-life Extension of Sweet Cherries - Field, Post-harvest, and Packaging](#) (2007 NYFQ v. 15-2, 865 kb pdf)
- [Managing External Carbon Dioxide Injury During Storage](#) (2007 NYFQ v. 15-2, 642 kb pdf)

Food Safety

- [USDA GAP/GHP Food Safety Audit](#)
- [Food Safety and Inspection Service \(USDA\)](#)
- [NY GAPs Collaborators](#)
- [GAPs Educational Materials](#)

Tree Fruit Post Harvest & Food Safety Archives

Food Safety webpage for all fruit commodities

Cornell Fruit - Windows Internet Explorer

http://www.fruit.cornell.edu/shared/FoodSafety.html

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Food Safety

General

- [Good Agricultural Practices NET \(GAPsNET\)](#)
 - NY GAPs Collaborators
 - GAPs Educational Materials
 - [Food Safety Begins on the Farm: A Grower Assessment](#)
- [Produce Safety Alliance](#)
- [Food Safety and Inspection Service \(USDA\)](#)
- [USDA GAP/GHP Food Safety Audit](#)
- [Food Safety Through Good Irrigation Practices \(OMAFRA Factsheet, 772 kb pdf\)](#)

Tree Fruit

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Grapes

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Berries

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Food Safety

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- Business Mgt.
- Labor

Get local help from regional fruit programs or your local office of Cornell Cooperative Extension.

Featured resources:

 [GAPs Network - Good Agricultural Practices Network site features food-safety curriculum, multilingual educational materials, record-keeping forms and more.](#)

[GAP/GHP Food Safety Audit](#) - Voluntary, audit-based program from USDA-AMS in partnership with state departments of agriculture verifies adherence to the FDA recommendations.

[Northeast Center for Food Entrepreneurship](#) - Provides comprehensive assistance to food entrepreneurs. Includes [technical guide](#), [factsheets](#), and more.

[Produce Safety Alliance](#) - Providing fundamental, science-based, on-farm food safety knowledge to fresh fruit and vegetable farmers, packers, regulatory personnel and others interested in the safety of fresh produce.

• [Newsletters.](#)
• [More Cornell websites.](#)

Grapes

- [Sanitation During Grape Harvest](#) (1998, Finger Lakes Vineyard Notes, 46 kb pdf)

Berries

- [Food Safety White Paper](#) (National Berry Crops Initiative, 303 kb doc)
- [GAPs for Food Safety in Blueberry Production: Basic Principles](#) (Michigan State Univ, 447 kb pdf)
- [GAPs for Strawberry, Raspberry, Blackberry and Blueberry](#) (North Carolina State Univ, 407 kb pdf)
- [Promoting the Safety of Northwest Fresh and Processed Berries](#) (Oregon State Univ, 1.89 mb pdf)
- [Food Safety in the Berry Patch](#) (Ohio State Univ, 1.83 kb pdf)

shared Enology page

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http://www.fruit.cornell.edu/shared/Enology.html

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Enology

General

- Cornell Enology
- NYS Wine Analytical Laboratory
- Vinification & Brewing
- NY Grape and Wine Classifieds

Other Fruit Wines

- Processed Apple Product Marketing Analysis: Hard Cider & Apple Wine (2001 AEM report, 152 kb pdf)
- Making Hard Cider (2008)
- Raspberry Wine Production
- Strawberry Wine Production
- Blackberry Wine Production in Fruit and Berry Wine Production in California
- Blueberry Wine Production (Proc. New England Vegetable and Fruit Conference 2003)

Grape Wine

Sampling/Harvest

- Fruit Chemistry Trends: 2007-2010 (from Veraison to Harvest #9, 875 kb pdf)
- Fruit Chemistry at the Willsboro Cold-Hardy Grape Trial (from Veraison to Harvest #4, 326 kb pdf)
- Long Island Research Vineyard Fruit Chemistry (from Veraison to Harvest #5, 193 kb pdf)
- Thoughts on Sampling and Harvest Decisions (from Veraison to Harvest #2, 198 kb pdf)
- Tracking YAN (Yeast Assimilable Nitrogen) from Veraison to Harvest (from Veraison to Harvest #9, 550 kb pdf)
- With Maturity Comes... Better Taste? (from Veraison to Harvest #5, 322 kb pdf)

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Get local help from regional fruit programs or your local office of Cornell Cooperative Extension.

Study Viticulture and Enology at Cornell New undergrad program in cold-climate grape growing and winemaking.

Featured resources:

Cellar Dweller Newsletter - Periodic newsletter, covering winemaking from fermentation through bottling.

Veraison to Harvest - From extension viticulture and enology a Sept. to Oct. weekly perspective on grape ripening and fruit quality.

Vinification & Brewing Technology Lab - Pilot plant dedicated to research and teaching in wine and brewing sciences.

Northeast Center for Food Entrepreneurship - Provides comprehensive assistance to food entrepreneurs. Includes technical guide, factsheets, and more.

GAP/GHP Food Safety Audit - Voluntary, audit-based program from USDA-AMS in partnership with state departments of agriculture verifies adherence to the FDA recommendations.

- NY Grape and Wine Classifieds
- Smart Marketing newsletter
- More newsletters
- More Cornell websites

Alcoholic and ML Fermentation

- Fermentation for Distillation (from Dec. 2010, Cellar Dweller, 275 kb pdf)
- When MLF is not the answer: Strategies to prevent malolactic fermentation (from Nov. 2010, Cellar Dweller, 237 kb pdf)
- The care and feeding of bacteria (from Dec. 2009, Cellar Dweller, 223 kb pdf)
- Stuck fermentations and glucose/ fructose ratios (from Dec. 2009, Cellar Dweller, 209 kb pdf)
- Frequently-Asked Questions about Yeast Assimilable Nitrogen (from Veraison to Harvest #6, 338 kb pdf)

Analysis

- Sulfur Dioxide (SO₂) 3 Ways (from Jan. 2011, Cellar Dweller, 271 kb pdf)
- Percent Alcohol 3 Ways (from Dec. 2010, Cellar Dweller, 276 kb pdf)
- Monitoring malolactic fermentation 3 ways (from Nov. 2010, Cellar Dweller, 385 kb pdf)
- Residual/Reducing Sugar 3 Ways (from Feb. 2011, Cellar Dweller, 276 kb pdf)
- Potholes on the Road of Acid Measurement (from Jan. 2011, Cellar Dweller, 271 kb pdf)
- Kicking up a Stink: Treatment for Sulfur Off-Odors (from April 2010, Cellar Dweller, 230 kb pdf)
- Aroma Screen for Sulfur Off-Odors (1995, Zoecklein et al. 73.6 kb pdf)
- Ask Barry Waite... Chardonnay with strange but fruity aromas and flavors (from Feb. 2010, Cellar Dweller, 250 kb pdf)
- Ask Barry Waite... Sending a sample to the wine analytical lab (from Jan. 2010, Cellar Dweller, 252 kb pdf)

Stability/Finishing Adjustments

- SO₂ Use (from Jan. 2010, Cellar Dweller, 278 kb pdf)
- Residual Sugar: Chemistry and Perception (from Feb. 2011, Cellar Dweller, 247 kb pdf)
- Cold stabilization (from Jan. 2010, Cellar Dweller, 276 kb pdf)
- Let a little knowledge filter through (from Feb. 2010, Cellar Dweller, 316 kb pdf)
- Managing Acid in 2010 -Step 1: Forget 2009 (from Veraison to Harvest #3, 276 kb pdf)
- Thoughts on Bench Trials (from April 2010, Cellar Dweller, 247 kb pdf)
- Ask Barry Waite...where the potassium meta-bisulfite I add is going (from Jan. 2010, Cellar Dweller, 252 kb pdf)

Other

- Improving management options for YAN in the vineyard and winery (from Veraison to Harvest #6, 253 kb pdf)
- Ask Barry Waite...blended wine exhibiting slight precipitate (from April 2010, Cellar Dweller, 247 kb pdf)
- New York Winemakers Comment on the 2010 Vintage. (from Veraison to Harvest #9, 301 mb pdf)
- Willsboro Wine Trial Completes 6th Growing Season (from Veraison to Harvest #8, 461 kb pdf)
- Measuring Field-applied Sulfur Residues in Juice and Wine (from Veraison to Harvest #7, 275 kb pdf)
- Botrytis: Will another fungicide spray help at this point? (from Veraison to Harvest #6, kb pdf)
- Vignoles Harvest: Shoot thinning, Training System and Botrytis (from Veraison to Harvest #5, 339 kb pdf)
- Experimental Wine Production (1977, FLS Bulletin #66, 383 kb pdf)
- Composition of New York State Grape Brandies(1974, FLS Bulletin #38, 249 kb pdf)
- Review of Grape and Wine Toxicity Research (1971, FLS Bulletin #6, 102 kb pdf)

Regulations

- Labeling and Advertising of Wine

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Value-Added

General

- NE Center for Food Entrepreneurship
- USDA GAP/GHP Food Safety Audit
- Adding Value to Farm Products: An Overview - (ATTRA)
- Steps to Start a Specialty Food Business
- Keys to Success in Value-added Agriculture - (ATTRA)
- Marketing Considerations for Small-Scale Specialty Food Producers
- Basic Standards for Home and Commercial Kitchens
- The Science and Technology of Making Preserves
- The Technology Farm (R&D park in Geneva, NY)
- Required Analyses of Various Types of Products
- Food Container Selection Tips - Glass
- Small Scale Processing Equipment
- Free Sugars in Fruits and Vegetables (1970, #1, 554 kb pdf)

Organic

- Enterprise Budgets and Production Costs for Organic Production - (ATTRA)
- Organic Marketing Resources - (ATTRA subscription required)
- Organic Price Report (OPR) - The Rodale Institute® weekly organic price updates
- Organic Standards for Handling (Processing) - (ATTRA)
- The National Organic Program - (USDA)

IPM Labeling

- Elements of IPM
- What are IPM Elements?

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Featured resources:

Northeast Center for Food Entrepreneurship - Provides comprehensive assistance to food entrepreneurs. Includes technical guide, factsheets, and more.

Food Safety begins on the farm

GAPs Network - Good Agricultural Practices Network site features food-safety curriculum, multilingual educational materials, record-keeping forms and more.

GAP/GHP Food Safety Audit - Voluntary, audit-based program from USDA-AMS in partnership with state departments of agriculture verifies adherence to the FDA recommendations.

Smart Marketing - a monthly marketing newsletter that reviews the elements critical to successful marketing in the food and agricultural industry.

The Technology Farm - R&D park in Geneva, N.Y., for food, ag and bio-based collaboration with Cornell University.

- Enology
- NY Grape and Wine Classifieds
- More newsletters
- More Cornell websites

Value-Added tree fruit, grapes, berries

Tree Fruit

- Thinking Afresh About Processing: An Exploration of New Market Opportunities for Apple Products (2001 AEM, 1.7 mb pdf)
- Processed Apple Product Marketing Analysis: Apple Juice & Cider (2001 AEM, 288 kb pdf)
- Anti-Cancer Apple Peels (2007 Cornell Chronicle)
- Sour Power Cherry Drink gets \$2.3 M Venture Funding (2007 Cornell Chronicle)
- Apples and Alzheimer's, Parkinson's (2004 Cornell News)
- Apple a Day Could Prevent Brain-cell Damage (2004 Cornell Chronicle)
- Elements of IPM for Apples in New York State (NYSIPM)
- Elements of IPM for Sweet Cherries in NY State (NYSIPM)
- Antioxidants in SmartFresh-treated, stored 'Empire' apples (2009 NYFQ v. 17-4, 275 kb pdf)
- Phenolics and Antioxidant Capacity in NY Plums (2004 NYFQ v. 12-4, 524 kb pdf)
- Antioxidants of Apples (2003 NYFQ v. 11-4, 95 kb pdf)
- Apple Peels and Antioxidant Activity (2002 NYFQ v. 10-3, 69 kb pdf)
- Dietary Flavonoids: Flavonols and Flavones (2002 NYFQ v. 10-3, 35 kb pdf)
- Antioxidants in NY Apple Cultivars (2001 NYFQ v. 9-2, 265 kb pdf)
- Apples: Source of Antioxidants (2000 NYFQ v. 8-2, 64 kb pdf)

Grapes

- Elements of IPM for Grapes in NY State (NYSIPM)

Berries

- Eat Your Raspberries
- Eat Your Blueberries
- Antioxidant Capacity of Phenolic Phytochemicals in Black Raspberries
- Antioxidant Capacity and Anticancer Properties of Red Raspberry
- Elements of IPM for Blueberries in NY State (NYSIPM)
- Elements of IPM for Raspberries in NY State (NYSIPM)
- Elements of IPM for Strawberries in NY State (NYSIPM)

Marketing – all fruit crops

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Marketing

General

- Getting Started in Farming? 5 Keys to Success (2002 Smart Marketing, 159 kb pdf)
- A Hazardous Waste Guide for Farmers (2009, DEC)
- Summary Statistics for Fruits and Berries (2008 USDA, 82 kb pdf)
- NY-NASS Fruit Reports (USDA)
- NY-NASS Fruit Press Releases (USDA)
- National Agricultural Statistics Service: Latest Releases from NY (USDA)
- Successful Local Marketing
- Should Customer Satisfaction Be Part of Specialty Crop Growers' Marketing Strategy?
- Beyond Growing - Buyers Looking for "Local"
- Marketing Orientation - A Producer's View
- Reputation as Your Brand
- Sell Value - Not Price
- A Key to Successful Marketing Strategies - and We All Have It!
- A Guide to Understanding the Value Chain
- Direct Marketing (ATTRA)
- PYO Operations and Farm Stands - Options for Your Business (Univ. of Wisc.)
- Links Between Dietary Recommendations and Farm Income for Horticultural Crops (2009 AEM, 375 kb pdf)
- Michigan: A State at the Intersection of the Debate Over Full Planting Flexibility (2007 USDA, 301 kb pdf)
- USDA GAP/GHP Food Safety Audit
- Cornell Agricultural Marketing and Management Program Work Team
- Growing for Market
- Cornell Farm-to-School Program
- "Pride of New York" Promotion Program
- Agricultural Marketing Service - (USDA)
- Farmers Market and Local Food Marketing Resources - (USDA)
- Fruit and Vegetable Market News - (USDA)
- New York Economic Handbook 2009 (2008 AEM, 1.8 mb pdf)
- Horticultural Business Information Network (Texas A&M)
- Beginning Farmer Resource Center
- Developing a Strategic Marketing Plan for Horticultural Firms
- Evaluating a Rural Enterprise (ATTRA)

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Get local help from regional fruit programs or your local office of Cornell Cooperative Extension.

Featured resources:

Guide to Farming in NYS: What Every Ag Entrepreneur Needs to Know - an essential resource with answers about taxes, business planning, labor law, zoning, regulations, marketing, and more.

Guide to Marketing Channel Selection: How to Sell Through Wholesale and Direct Marketing Channels - a decision-making aid for new farmers and for new marketing channels.

Northeast Center for Food Entrepreneurship - Provides comprehensive assistance to food entrepreneurs. Includes technical guide, factsheets, and more.

- Horticultural business management and marketing program
- Agricultural Marketing and Management Program Work Team
- GAPs multilingual educational materials
- GAPs record-keeping forms
- Cooperative Enterprise Program
- NY Farm Net
- NY Farm Link
- Smart Marketing Newsletter
- Newsletters
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Order NRAES books

- Produce Handling for Direct Marketing (1992, NRAES #51)
- Facilities for Roadside Markets (1992, NRAES #52)

Tree Fruit

- Premier Apple Shows the Way Toward Smart Marketing! (2004 Smart Marketing, 164 kb pdf)
- Premium Tree-Ripened Fruit - A Ripening Opportunity (2005 Smart Marketing, 39 kb pdf)
- Thinking Afresh About Processing: Opportunities for Apple Products (2001 AEM, 1.7 mb pdf)
- Processed Apple Product Marketing Analysis: Apple Juice & Cider (2001 AEM, 152 kb pdf)
- Processed Apple Product Marketing Analysis: Hard Cider & Wine (2001 AEM, 288 kb pdf)
- Estimating the Environmental Footprint of NY Apple Orchards (2010 NYFQ v. 18-1, 1.04 mb pdf)
- Eating Quality and How We Measure Quality Objectively (2006 NYFQ v. 14-4, 116 kb pdf)

Grapes

- The Industrial Concord Market from a Broker's Point of View (1997, html)
- Developing a Wine Marketing Plan for a New Winery (2010 Smart Marketing, 105 kb pdf)
- Factors affecting NY Wines in Upscale Restaurants (Smart Marketing, March 2010)
- Lake Erie Regional Grape Program - Business Management
- NY Grape and Wine Classifieds

Berries

- Should Production in High Tunnels Be Part of Your Specialty Crop Enterprise?
- Marketing Small Fruit...Points to Ponder
- Managing Small Fruit Crops for the Retail Market
- Retailing Requires TBQM: Total Berry Quality Management
- Marketing Specialty Fruit
- Marketing Specialty Jams and Jellies to Gourmet Consumers
- Email Marketing on Our Farm
- Blueberry Marketing Options (Northwest Berry and Grape Information Network)
- What Makes Direct Market Strawberry Farms Successful? (NC State Univ.)
- NYS Berry Pricing - Trends, Changes, Challenges (2010 NYFQ v. 18-2, 500 kb pdf)

Marketing Tip Sheets - From the non-profit CISA:

- Excelling in Customer Service
- Developing a Marketing Plan for Your Farm
- Using Paid Advertising as Part of a Marketing Plan
- Working with the Media: Public Relations and Publicity
- Better Merchandising for Increased Sales
- Workshops and Classes as a Marketing Strategy
- Creating a Farm Website
- Technical Assistance: Creating a Farm Website (2008 addendum)
- Online Stores
- Technical Assistance: Online Stores (2008 addendum)
- Building Relationships through Permission (E-mail) Marketing
- Blogs

Business, Marketing & Labor Archives

Business Management

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- [Getting Started in Farming? 5 Keys to Success](#) (2002 Smart Marketing, 159 kb pdf)
- [Summary Statistics for Fruits and Berries](#) (2010 USDA, 244 kb pdf)
- [NY-NASS Fruit Reports](#) (USDA)
- [NY-NASS Fruit Press Releases](#) (USDA)
- [National Agricultural Statistics Service \(NASS\): Latest Releases from NY](#) (USDA)
- [ReadyAG: Disaster and Defense Preparedness for Production Agriculture](#)
- [New York Economic Handbook 2009](#) (2008 AEM, 1.8 mb pdf)
- [Horticultural Business Information Network](#) (Texas A&M)
- [UC Davis Cost Studies for Various Fruits and Vegetables](#)
- [Do I Need Crop Insurance? Self Evaluating Crop Insurance as a Risk Management Tool in NYS](#) (2004 AEM, 525 kb pdf)
- [Beginning Farmer Resource Center](#)
- [Small Farms Program](#)
- [Developing a Strategic Marketing Plan for Horticultural Firms](#)
- [Evaluating a Rural Enterprise](#) (ATTRA)
- [Building a Sustainable Business](#): (order book SARE)
- [Monitoring and Measuring Fruit Farm Businesses](#) (2008 NYFQ v. 16-4, 92 kb pdf)

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Featured resources:

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[Beginning Farmer Resource Center](#) - online courses and informational resources for new farmers.

Northeast Center for Food Entrepreneurship - Provides comprehensive assistance to food entrepreneurs. Includes technical guide, factsheets, and more.

[Cost of Establishment of *V. vinifera* in the Finger Lakes Region of New York – 2010](#). Tracks production costs and returns for growing *V. vinifera* grapes in New York. Fifth in a series dating back to 1997 by Gerald White, Professor Emeritus of Horticultural Marketing.

[The Technology Farm](#) - R&D park in Geneva, N.Y., for food, ag and bio-based collaboration with Cornell University.

Order NRAES books

- [Facilities for Roadside Markets](#) (1992, NRAES #52)
- [Farming Alternatives: A Guide to Evaluating the Feasibility of New Farm-Based Enterprises](#) (1988, NRAES #32)
- [Used Farm Equipment: Assessing Quality, Safety, and Economics](#) (1987, NRAES #25)
- [Farm Machinery Days for Small and Part-Time Farmers](#) (1990, NRAES #45)

- Horticultural business management and marketing program
- Agricultural Marketing and Management Program Work Team
- GAPs multilingual educational materials
- GAPs record-keeping forms
- Cooperative Enterprise Program
- NY Farm Net
- NY Farm Link
- Newsletters
- More Cornell websites

Energy Conservation

- [Conserving Fuel on the Farm](#) (ATTRA)
- [Farm Energy Audits: Availability, Usefulness, Cost](#) (NCAT)
- [Farm Energy Calculators: Evaluations and Recommendations](#) (NCAT)
- [Farm Energy Calculators: Tools for Saving Money on the Farm](#) (ATTRA)
- [Clean Energy Farming: Cutting Costs, Improving Efficiencies, Harnessing Renewables](#) (SARE)

Tree Fruit

- [Fruit Farm Business Summary: Lake Ontario Region New York 2007](#) (2008 AEM, 654 kb pdf)
- [Fruit Farm Business Summary: Lake Ontario Region New York 2006](#) (2007 AEM, 671 kb pdf)
- [Fruit Farm Business Summary: Lake Ontario Region New York 2005](#) (2006 AEM, 1,012 kb pdf)

Grapes

- [Cost of Establishment of *V. vinifera* in the Finger Lakes Region of New York – 2011](#) (2011 AEM, 379 kb pdf)
- [Lake Erie Grape Farm Cost Survey: 2001-2005](#) (2006 AEM, 325 kb pdf)
- [Writing a Business Plan: A Guide for Small Premium Wineries](#) (2002 AEM, 362 kb pdf)
- [Writing a Business Plan: An Example for a Small Premium Winery](#) (2002 AEM, 349 kb pdf)
- [Vineyard and Winery Feasibility Workbooks](#) (Iowa State Univ.)
- [Lake Erie Regional Grape Program - Business Management](#)
- [NY Grape and Wine Classifieds](#)

Berries

- [Should Production in High Tunnels Be Part of Your Specialty Crop Enterprise?](#)
- [Retailing Requires TBQM: Total Berry Quality Management](#)

Business, Marketing & Labor Archives

Labor Management & Worker Safety

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Labor Management / Worker Training & Safety

General

- A Hazardous Waste Guide for Farmers (2009, DEC)
- ReadyAG: Disaster and Defense Preparedness for Production Agriculture
- Labor & Record-keeping Forms
- NY Rollover Protective Structure Retrofit Program (ROPS)
- New York Economic Handbook 2009 (2008 AEM, 1.8 mb pdf)
- Horticultural Business Information Network (Texas A&M)
- Wild Parsnip (WIDNR)
- Giant Hogweed - Poisonous Invader of the Northeast (2009, Sea Grant NY)
- Giant Hogweed (NYDEC)
- Reducing Repetitive Stress Injuries Related to Orchard Pruning (2008, NYCAMH)
- The Platform Factor - Labor Positioning Machines Producing Good Results (2010 NYFQ v. 18-2, 1.13 mb pdf)
- How Do I Know If Farm Noise Is Too Loud? (2006, NYCAMH)
- Reducing Take-Home Pesticide Exposures (2008, NYCAMH)
- Agricultural Labor Management (Univ of CA)
- Agricultural Labor Management (Univ. of VT)
- National Education Center for Agricultural Safety (NECAS)
- National Institute of Occupational Health and Safety (NIOSH)
- Temporary Agricultural Workers (H-2A) (US Department of Labor)
- H-2A Temporary Agricultural Workers (USCIS)
- Temporary Non-Agricultural Workers (H-2B) (USCIS)

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Featured resources:

NYCAMH New York Center for Agricultural Medicine and Health (NYCAMH) provides research, education and prevention activities, and clinical help for farm-related health problems.

NEC Northeast Center for Food Entrepreneurship - Provides comprehensive assistance to food entrepreneurs. Includes technical guide, factsheets, and more.

Guide to Farming in NYS What Every Ag Entrepreneur Needs to Know - an essential resource for with answers about taxes, business planning, labor law, zoning, regulations, marketing, and more.

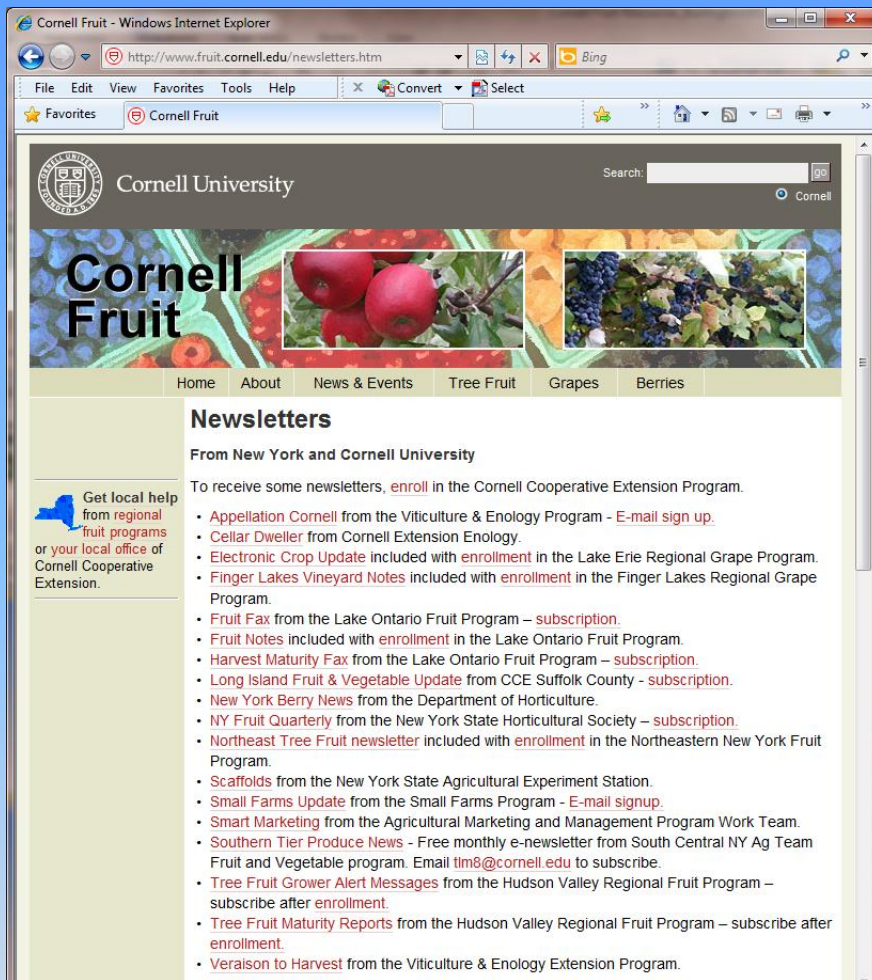
The Cornell Farmworker Program (CFP) is dedicated to improving the living and working conditions of farmworkers and their families

- Survey of NY Fruit & Vegetable Farm Employees 2009
- Horticultural business management and marketing program
- Agricultural Marketing and Management Program Work Team
- GAPS multilingual educational materials
- GAPS record-keeping forms
- Cooperative Enterprise Program
- NY Farm Net
- NY Farm Link
- Newsletters
- More Cornell websites

Order NRAES books

- Workforce Management for Farms and Horticultural Businesses: Finding, Training, and Keeping Good Employees (1999, NRAES #117)
- Farm Rescue: Incidents and Emergencies in Agricultural Settings (1999, NRAES #10)
- First on the Scene (1989, NRAES #12)
- Used Farm Equipment: Assessing Quality, Safety, and Economics (1987, NRAES #25)

Business, Marketing & Labor Archives



Newsletters

Enrollment

- Finger Lakes Grape Program
 - [Enrollment within](#) Schuyler, Seneca, Steuben, Ontario & Yates counties.
 - [Satellite enrollment](#) for all other counties.
- Hudson Valley Regional Fruit Program
 - [Enrollment within](#) Columbia, Dutchess, Orange Rensselaer & Ulster counties.
- Lake Erie Regional Grape Program
 - [Enrollment within](#) Cattaraugus, Chautauqua and Niagara counties.
 - [Satellite enrollment](#) for all other counties.
- Lake Ontario Fruit Program
 - [Enrollment within](#) Oswego, Orleans, Monroe, Niagara & Wayne counties.
 - [Satellite enrollment](#) for all other counties.
- Northeastern New York Commercial Fruit Program ([brochure](#))
 - [Enrollment within](#) Albany, Clinton, Essex, Saratoga & Washington counties.
 - [Enrollment letter](#).

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This web resource is designed to enhance access to Cornell's fruit production resources. This site is a project of the Tree Fruit & Berry Program Work Team and the Viticulture and Enology Program Work Team. Comments? Email [Juliet Carroll](mailto:Juliet.Carroll@cornell.edu), PWT Web Subcommittee chair, or [Craig Cramer](mailto:Craig.Cramer@cornell.edu), Communication Specialist, Dept. of Horticulture. Some of the informational links provided are not maintained by, nor are the responsibility of, Cornell Cooperative Extension and Cornell University. Mention of commercial products and trade names is for educational and informational purposes only. Manufacturers' instructions change. Read the manufacturers' instructions on the pesticide label carefully before use. Inclusion of information is not intended as an endorsement by Cornell Cooperative Extension or Cornell University, nor is discrimination of excluded information implied. Cornell University is an equal opportunity, affirmative action educator and employer.

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Tree fruit news

High Wind Alert for High Tunnel Growers

[08/26/2011]

While forecasts for Hurricane Irene remain uncertain in terms of landfall, wind velocities and speeds, it pays to err on the side of caution!

Mark Hutton from University of Maine provides these insights, "A couple of things to keep in mind, the houses will do best if they are closed as tightly as possible. Wind getting inside the house amplifies the power of the storm. If you have movable frames be sure to secure the anchors, alternatively you can remove the covering or tie it to the ridge pole.

For more information on preparing your structure for the storm see Tina Smith's (UMass) article about [preventing storm damage to tunnels and greenhouses](#).

Watch out for brown marmorated stink bugs

[3/25/2011]

Invasive pest can infest grapes, peaches, apples, pears, cherries, raspberries, and other crops.

"A native of Asia, this particular stink bug was first spotted in Allentown, Pa. around 1996 and has hitchhiked into parts of

Tree fruit events

October 16-19, 2011
ISHS Symposium on "High Tunnel Horticultural Crop Production"
State College, Pa.

November 7-8, 2011
Strategic Marketing Conference:
Capitalizing on Group Action & Business Alliances to Improve Marketing Returns
Hyde Park, N.Y.

December 6-8, 2011
Great Lakes Fruit, Vegetable & Farm Market EXPO
Grand Rapids, MI.

December 13-15, 2011
New England Vegetable and Fruit Conference
Manchester, NH.

January 24-26, 2012
Empire State Fruit and Vegetable Expo & Farmers' Direct Marketing Conference
Syracuse, NY.

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About

The Cornell Fruit Resources web pages are designed to enhance access to Cornell's fruit production resources. This site is a project of the Tree Fruit & Berry Program Work Team and the Viticulture & Enology Program Work Team.

The Cornell Fruit Resources Steering Committee is:

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