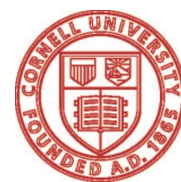


Cornell Cooperative Extension

Eastern NY Commercial Horticulture Program

Dear Tree Fruit, Vegetable, Berry and Grape Grower,



Cornell Cooperative Extensions Eastern NY Commercial Horticulture Program (ENYCHP) looks forward to being the agricultural educational resource for your fresh market fruit and vegetable farm business. Seventeen Cornell Cooperative Extension Associations contribute to CCE ENYCHP so that growers in those counties have access to affordable, highly specialized production and business management information. This support also allows the ENYCHP team of 10 Specialists to conduct on-farm research of problems pertinent you, including the general areas below:

Food Safety	Research and education to help growers meet Quality Assurance and Food Safety Certification Standards and Good Agricultural Practices (GAPs)
Variety Evaluation	Unbiased results from local on-farm trials
Market Development	Marketing education on promoting local foods and new crops, notifying growers of new farmers markets and encouraging farm-to-chef connections
Pest Management	Understanding pest biology, effective controls, identifying new pests and pest alerts
Cultural Practices	Educating growers on nutrient management, yield enhancement and season extension
Soil Health	Educating growers on cover crops, reduced tillage, reduced compaction, increased organic matter and improved soil health
Business Management	Resources and education for growers to help manage finances, labor, adapt to changing markets and many other aspects to running a successful farm

Your \$65 annual enrollment (for those who farm within the 17 county region; \$165.00 for those outside this region) helps this work continue by supporting research and educational programming and shows funders that local farmers value this program enough to invest in CCE ENYCHP and their industry. Enrolled members have priority access to research results, timely text alerts, newsletters and discounts to ENYCHP hosted meetings. Enrollment benefits include:

Enrollment Benefits	CCE ENYCHP Enrollment (\$65 In-Region)*	Satellite Enrollment (\$165 outside the 17 county region)
ENYCHP Newsletters /E-alerts: ENYCHP Newsletters and E-alerts are available to all. These include Produce Pages, Tree Fruit News /E-alerts, Vegetable News, Berry News, and Grape News/E-alerts.	✓	✓
Text Alerts: Enrollees receive the exclusive benefit of ENYCHP text alerts, straight to their cell phones. Text alerts will notify growers of the most important, time sensitive news in an instant	✓	✓
Telephone / Email Consultations: Get answers to your questions from one of the team's specialist.	✓	✓
Reduced Registration Fees for Educational Meetings & Conferences: Enrolled members will receive registration discounts to CCE ENYCHP hosted events.	✓	✓
Direct Mailings: Special event notices and important information on your crops.	✓	✓
Your enrollment fees directly support CCE ENYCHP staff and add value to the overall research, outreach and educational opportunities offered. Your support also shows county associations, Cornell and other funders that you value the information provide by this regional team.	✓	✓
In-Field Educational Opportunities: When requested, Specialists may visit your farm and provide you with on-site information to solve problems on your farm.	✓	NA
Conduct/Coordinate On-Farm Research Trials in the Region: CCE ENYCHP specialist conduct on-farm research that is relevant to issues identified by you.	✓	NA

Seasonal updates (March—October) provided by the Eastern New York Commercial Horticulture Program: Berry, Grapes, Tree Fruit, Vegetable. Produce Pages runs November to March and covers all crops.



Cornell Cooperative Extension
Eastern NY Commercial Horticulture Program

VOLUME 6, ISSUE 16 — AUGUST 22, 2018

Vegetable News

Late Blight Update

I thought it might be a good time to update you on the Late Blight that was found in tomatoes from a greenhouse in Onondaga County earlier this year. First, let me report that we have **NOT** found late blight anywhere in our 17 county region in Eastern New York to date. The note below is from our Cornell Vegetable Pathologist Chris Smart:

"As you know, Kevin Myers (in Bill Fry's lab) identified a new genotype of *Phytophthora infestans* from tomato plants in Onondaga County NY earlier this summer. This same genotype has now been identified from an infected tomato field in Tioga County NY. We do not yet know if transplants from Onondaga County were moved to Tioga County. Based on this second finding, we are giving the new genotype the clonal lineage designation US-25. Preliminary studies found US-25 to be mating type A2 (US-23, which has been the predominant strain in NY for the past 6 years, is mating type A1), and US-25 is insensitive to mefenoxam at 10ppm using a leaf disk assay (this was the highest level of mefenoxam that was used in the preliminary study) (Editor's note: This means the isolate is resistant to Ridomil fungicides). In in-vitro assays US-25 infected both potato and tomato. Because mefenoxam does not appear to be effective against US-25, but IS effective against US-23, it is very important that you have strains genotyped if you see late blight in the field."

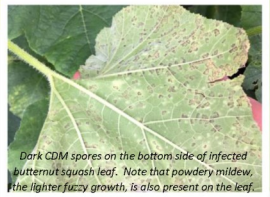
So if you suspect late blight in your tomatoes or potatoes, please contact your local CCE ENYCHP specialist for diagnosis!

Cucurbit Downy Mildew Update

On Tuesday, August 20th, cucurbit downy mildew (CDM) was confirmed on butternut squash in Orange County. This is the first confirmation of CDM in the region on a cucurbit crop other than cucumbers. For more information on management options, please see Chuck Born's article at <https://enych.cce.cornell.edu/submission.php?id=593&crumb=pests/pests>.

The current forecast for the risk of CDM spread in the region is available at <http://cdm.ipmPIPE.org/current-forecast>.

VEG NEWS



Cornell Cooperative Extension
Eastern NY Commercial Horticulture Program

VOLUME 6, ISSUE 6 — SEPTEMBER 2018

Tree Fruit News

2018 Apple Storage Observations and Recommendations
Dan Donahue & Mike Basedow, CCE ENYCHP

As we jump into another harvest season, let's review some storage suggestions from Dr. Chris Watkins, and results from our own observations and research in Eastern New York, for some of our major cultivars.

Honeycrisp

Honeycrisp in the Hudson Valley tend to be very prone to bitter pit, while fruit in the Champlain Valley generally do not have as much of a problem with it. In the Champlain Valley there has historically been more concerns with soft scald and soggy breakdown. This historic trend may not always be reliable year to year though, as we saw more bitter pit and very little soft scald in our Champlain Valley survey sites in 2016 and 2017. Visiting our survey sites last week, bitter pit symptoms are already beginning to show up in the Champlain Valley, while bitter pit symptoms have been visible in Hudson Valley Honeycrisp blocks for the last three weeks.

Conditioning fruit at 50°F for up to a week will reduce soft scald and soggy breakdown but will likely lead to more bitter pit development. Knowing your block history can help you determine whether you want to condition or not. If a block has historically been very prone to bitter pit, conditioning is not recommended, as this will exacerbate the problem. However, if a block rarely gets bitter pit, and soft scald and soggy breakdown are common, conditioning for seven days would be recommended. Pre-conditioning remains a standard grower practice in the soft-scaled prone Champlain Valley. On the other hand, this practice is falling out of favor with storage operators in the Hudson Valley where mitigation of bitter pit in storage is a higher priority.

So where are we in predicting bitter pit in fruit on the tree? Mineral and non-mineral

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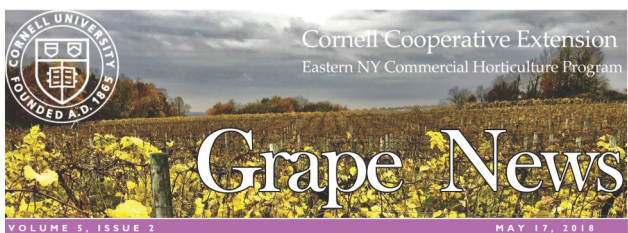
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STAY CALM

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TREE FRUIT NEWS



Cornell Cooperative Extension
Eastern NY Commercial Horticulture Program

VOLUME 5, ISSUE 2 MAY 17, 2018

Grape News

GRAPE DISEASE CONTROL, 2018

Bryan Hed, Department of Plant Pathology and Environmental Microbiology, Penn State University, Lake Erie Regional Grape Research and Extension Center, North East PA 16428 (bxh38@psu.edu)

As many of you know Wayne Wilcox, who has annually provided us with an incredibly thorough grape disease management update each spring, has retired. Filling Wayne's shoes is going to be a tall task to say the least, and the search for his replacement goes on. For now, I will attempt to provide a brief summary of some of the pertinent changes in grape disease control that I hope will be useful for grape growers in the 2018 season. For consistency, I'll roughly be using Wayne's format from his previous newsletter from June of 2017.

FUNGICIDE CHANGES, NEWS, & REVIEWS

Here is some new, and sort of new information regarding grape fungicides in 2018.

First, Aprovia/Aprovia Top. The active ingredient in Aprovia is solatenol (benzovindiflupyr), and while it does not represent a new chemical class for us grape growers (succinate dehydrogenase inhibitor or SDHI) it is one of those 'new generation' SDHIs that Wayne spoke of last year. The SDHI fungicides belong to FRAC Group 7, which also includes chemistries in products like Endura and Pristine (boscalid) and Luna Experience (flupyrpyrim). Aprovia was available for use in most states last year, but has now been labeled for use in New York as well. As a solo product, Aprovia is very effective for the control of powdery mildew as trials in NY over several years have shown. Trials at Penn State over the past couple of seasons have also revealed some efficacy on black rot, but I would consider it more in line with "suppression" of this disease and I cannot recommend it for black rot control, especially on susceptible varieties (see the results of our trials in tables 1 and 2 below). Also, it should not be relied on for significant control of Botrytis, unlike other SDHIs. The label also lists control of Phomopsis and anthracnose, but like Wayne, I have not seen any real proof of that. Penn State has tested this product over two years on Concord, to examine it for any potential crop injury issues to that variety, in comparison to Revus Top, a standard spray program, and an untreated check.

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GRAPE NEWS



Cornell Cooperative Extension
Eastern NY Commercial Horticulture Program

VOLUME 6, ISSUE 4 - MAY 24, 2018

Berry News

Spring Berry "To Do" List

Growing degree day accumulation (base 50) has been fairly rapid over the past few weeks, although there is a dramatic variation across the region. Lower Hudson Valley locations are recording 300–350, Kinderhook is at 300, Voorheesville at 250, Saratoga at 275 and Clifton Park may have the highest accumulation in the entire region at 351! But accumulation is really specific – Amsterdam is at 237, Cobleskill at 234 and Stephentown is at 192. In the north, Crown Point is at 297, Peru at 201 and Chazy at 153. All of these readings are relatively in line with past years accumulation at this time – it's just that the manner in which the warmth accumulated was a bit different. We had very modest accumulation during April, but caught up quickly so far in May.

All of this is important because it helps to track pest emergence. We are working with a few growers across the region as they assist NYS IPM specialist Dr. Juliet Carroll with verifying NEWA models for blueberry maggot, cranberry fruit worm, and several strawberry diseases.

The importance of having a weather station right near you cannot be overstated. We've had a number of stations come on line recently (thanks to many dairy farmers) which has provided additional resources especially in the Mohawk valley and upper Hudson. If you're interested, please visit the NEWA page at <http://newa.cornell.edu/>.

—Strawberries—

- Strawberry bloom is upon us. The lower Hudson Valley had little time to spray for Botrytis as the plants went so quickly from tight bud to

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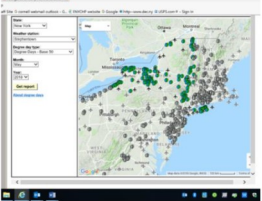
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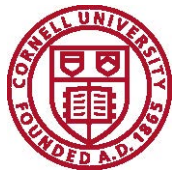
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BERRY NEWS



Cornell Cooperative Extension

Eastern NY Commercial Horticulture Program



2019 CCE Eastern New York Commercial Horticulture Program Enrollment

Want to pay with a credit card? Visit us at: enychp.cce.cornell.edu and enroll online!

NAME: _____		
FARM/BUSINESS: _____		
ADDRESS: _____	TOWN: _____	
STATE: _____	ZIP CODE: _____	COUNTY: _____
PHONE: _____	CELL: _____	
EMAIL Address: _____		
<u>Additional Email Addresses for same farm enrollment: (please print clearly)</u>		
Name: _____	Email Address: _____	
Name: _____	Email Address: _____	
Name: _____	Email Address: _____	

E-mail Publication Selection:
(included in the cost of your enrollment)

The Produce Pages

The Vegetable Weekly Update

Tree Fruit Updates
Includes E-Alerts

Small Fruit Bi-Weekly

Grape Updates
Includes Veraison to Harvest Reports

ENYCHP Text Alerts:
Text message alerts are included in the cost of your enrollment and will only be brief messages about important crop updates. Example: Late blight found in N. Columbia County.

Do you wish to receive text message alerts? Yes ___ No ___

If yes, please include a cell phone number: _____
and cell carrier (Verizon, Sprint, etc.) _____

This information is necessary for you to receive text alerts.

Text message commodity preference:
 Vegetable Alerts
 Berry Alerts
 Grape Alerts
 Business Mgmt Alerts

See other side to complete enrollment information

1 year ENYCHP Enrollment \$ 65.00

Check this box if you choose not to enroll at this time but would like to receive complimentary email newsletters. Information about you/your farm must be filled out as well as which email publications you would like to receive. Text message alerts are for enrollees only.

1 year ENYCHP Enrollment \$ 65.00

Additional payment for printed newsletters :

Mark each newsletter you would like to receive

All e-mail publications are included in the cost of enrollment. Hardcopy newsletters may be requested at an additional charge of \$40 per commodity.

Vegetable Hardcopy ____

Tree Fruit Hardcopy ____

Small Fruit Hardcopy ____

Produce Pages Hardcopy ____

Grape Hardcopy ____

TOTAL HARDCOPY NEWSLETTERS ____ x \$40 = \$ _____

Cornell PMEP Guideline Order (See Below) \$ _____

Special Contributions can be made to the CCE ENYCH Program \$ _____

Note: ENYCHP Enrollment Fees and Donations are Tax Deductible

TOTAL (Make checks payable to: CCE ENYCHP) \$ _____

Please make checks payable to CCE ENYCHP and mail to CCE ENYCHP, Ag & Life Sciences Bldg, 61 State St, Troy, NY 12180

Enrollment Deadline : 1/31/2019

Notice: Guideline orders will be shipped in Jan/Feb when the latest 2019 editions become available. All prices include shipping and handling.

2019 CORNELL PEST MANAGEMENT GUIDELINES	PRICING		
	PRINT	ONLINE	BUNDLE (PRINT + ONLINE)
Berry Crops	\$36.00	\$31.00	\$48.50
Field Crops	\$35.00	\$30.00	\$47.00
Grapes	\$36.00	\$31.00	\$48.50
Greenhouse Crops and Herbaceous Ornamentals	\$42.00	\$37.00	\$57.00
Hops	\$36.00	\$31.00	\$48.50
Tree Fruit	\$46.00	\$41.00	\$62.50
Tree and Shrub - 2014 Edition	\$36.00	\$31.00	\$48.50
Vegetable Crops	\$46.00	\$41.00	\$62.50
Resource Guide for Organic Insect and Disease Management <i>http://web.pppmb.cals.cornell.edu/resourceguide/</i>	\$25.00	Free*	\$25.00
2016 Organic Vegetable Guidelines	Free download at: https://ecommons.cornell.edu/handle/1813/41246/ and search "Organic Guide" and select Vegetables in the left side Subject menu		
2016 Organic Fruit Guidelines	Free download at: https://ecommons.cornell.edu/handle/1813/41246/ and search "Organic Guide" and select Fruits in the left side Subject menu		