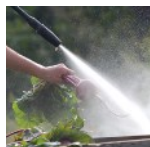




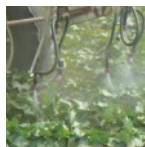
poor transplant quality and how to avoid it.

**PAGE 1**



Many growers have questions concerning farm food safety, especially with the new FDA regulations. Here are several online resources that may help.

**PAGE 3**



Read about the 2017 vegetable pesticide updates and how to look up labels for pesticides

labeled in New York.

**PAGE 4**



Online tools combine weather and climate data at any location and are updated daily to give users short-term projections to respond to extreme weather events.

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# VEGEEdge

YOUR TRUSTED SOURCE FOR RESEARCH-BASED KNOWLEDGE

• Volume 13 | • Issue 5 | • April 26, 2017



**Cornell University**  
Cooperative Extension  
Cornell Vegetable Program

*Photo: Judson Reid*

## It's All About the Transplant

*Judson Reid, CCE Cornell Vegetable Program*

With high tunnel tomato planting season upon us, we see a lot of challenges resulting from poor transplant quality. Specifically, plants that are 'pot-bound' or 'leggy', in other words left in their transplant cell too long. Several problems result:

- Plants become nutrient deficient as their foliage outstrips the delivery capacity of the root system.
- Plants become too generative, focusing on fruit and flowers instead of shoot growth, resulting in a permanently stunted plant.
- Transplants that are too tall are more susceptible to wind damage or burning as they fall over on plastic mulch.
- Outsized plants increase transplant labor.

To prevent this it is important to avoid seeding too early. Aim for 6 weeks prior to transplant. If wet conditions or cold tem-



Pot-bound plants with fruit set before transplanting.  
*Photo: Judson Reid, CCE Cornell Vegetable Program*

*continued on page 3*



**VegEdge** newsletter is exclusively for enrollees in the Cornell Vegetable Program, a Cornell Cooperative Extension regional agriculture team, serving 13 counties in Western New York.

The newsletter is a service to our enrollees and is intended for educational purposes, strengthening the relationship between our enrollees, the Cornell Vegetable Program team, and Cornell University.

We're interested in your comments. Contact us at:  
CCE Cornell Vegetable Program  
480 North Main Street, Canandaigua, NY 14224  
Email: [cce-cvp@cornell.edu](mailto:cce-cvp@cornell.edu)  
Web address: [cvp.cce.cornell.edu](http://cvp.cce.cornell.edu)

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VegEdge is published 25 times per year, parallel to the production schedule of Western New York growers. Enrollees in the Cornell Vegetable Program receive a complimentary electronic subscription to the newsletter. Print copies are available for an additional fee. You must be enrolled in the Cornell Vegetable Program to subscribe to the newsletter. For information about enrolling in our program, visit [cvp.cce.cornell.edu](http://cvp.cce.cornell.edu). Cornell Cooperative Extension staff, Cornell faculty, and other states' Extension personnel may request to receive a complimentary electronic subscription to VegEdge by emailing Angela Parr at [aep63@cornell.edu](mailto:aep63@cornell.edu). Total readership varies but averages 700 readers.

Information provided is general and educational in nature. Employees and staff of the Cornell Vegetable Program, Cornell Cooperative Extension, and Cornell University do not endorse or recommend any specific product or service.

This publication contains pesticide recommendations. Changes in pesticide regulations occur constantly and human errors are possible. Some materials may no longer be available and some uses may no longer be legal. All pesticides distributed, sold or applied in NYS must be registered with the NYS Department of Environmental Conservation (DEC). Questions concerning the legality and/or registration status for pesticide usage in NYS should be directed to the appropriate Cornell Cooperative Extension (CCE) specialist or your regional DEC office.

CCE and its employees assume no liability for the effectiveness or results of any chemicals for pesticide usage. No endorsement of products or companies is made or implied. **READ THE LABEL BEFORE APPLYING ANY PESTICIDE.**

Help us serve you better by telling us what you think. Email us at [cce-cvp@cornell.edu](mailto:cce-cvp@cornell.edu) or write to us at Cornell Vegetable Program, 480 North Main Street, Canandaigua, NY 14424.



**Cornell University**  
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*The next issue of VegEdge will be May 10, 2017.*

## Grants for Processing Crops Research Awarded

*Julie Kikkert, CCE Cornell Vegetable Program*

The New York Vegetable Research Association and Council awarded a total of \$128,927 for 9 research projects. The funds for these grants are contributed by the growers and processors through the processing contracts. The following projects were awarded for 2017:

Researchers	Title	TOTAL
Nault	Advancing corn earworm management in sweet corn, seed corn maggot control in beans and an update on CMV in bean fields	\$20,322
Olmstead	Validation of a hyper-local developmental model to predict western bean cutworm adult emergence in sweet corn	\$19,922
Pethybridge	Optimizing the fungicide-based management of white mold in two varieties of snap bean	\$20,857
Pethybridge	Know your enemy! Identification of plant-pathogenic fungi associated with root decay on table beet	\$17,418
Pethybridge	Optimizing the use of Aprovia Top for management of Cercospora leaf spot in table beet	\$13,143
Reiners, Ballerstein	2017 Processing pea variety trial	\$8,187
Reiners, Ballerstein	2017 Processing snap bean variety trial	\$12,281
Reiners, Ballerstein	2017 Processing sweet corn variety trial	\$10,807
Reiners, Ballerstein	NYS processing snap bean foliar nutrient study	\$5,990

**TOTAL AWARDS \$128,927**

continued from cover – It's All About the Transplant

peratures delay the transplant date, 'potting-up' into a larger container (3 or 4" rounds) can keep the plant in a vegetative stage for a few more weeks. Some growers this spring are experimenting with the removal of first flowers or fruit.



Oversized transplants in cold soil. Photo: Judson Reid, CCE Cornell Vegetable Program

## Quick and Easy Resources for Farm Food Safety

Robert Hadad, CCE Cornell Vegetable Program

There are many questions concerning farm food safety and with the new FDA regulations. The Cornell Produce Safety Alliance has a great website where you can find very useful information. The website is listed here: <https://producesafetyalliance.cornell.edu/resources>

To find out if you need to comply or if you are exempt, check out the PSA PowerPoint presentation found on the resources page of the PSA [FSMA Produce Safety Rule Exemptions & Exclusions PowerPoint](#)

If you are looking for compliance dates, check out this link. This will provide a list of dates when produce farms need to have completed their training course and instituted their food safety practices. The list is divided by farm size based on the value of sales averaged over the previous three years. <https://producesafetyalliance.cornell.edu/sites/producesafetyalliance.cornell.edu/files/shared/documents/compliance-date-add-on.pdf>

Also on the PSA reference page is a comprehensive listing of sanitizers on the market for wash water or for sanitizing food contact surfaces etc. It is titled, [Labeled Sanitizers for Produce - Excel Tool](#). Accompanying this spread sheet is a video on how to use the sheet in an easy to follow tutorial.

Penn State has put out a very useful video on YouTube on how to use sanitizers properly. [https://www.youtube.com/watch?v=Ee5xq\\_B79xs&t=24s](https://www.youtube.com/watch?v=Ee5xq_B79xs&t=24s)

## Resource Available: What Color Plastic Mulch is Best for Your Crop?

Robert Hadad, CCE Cornell Vegetable Program

Have you ever wondered about the benefits of using different colored plastic mulches? Here is a terrific read on the crop and the mulches that might be best for growing them. It is from the Penn State Center for Plasticulture. Here is a hint of what is in store: red tomatoes = red mulch. So what grows better on blue? <http://extension.psu.edu/plants/plasticulture/technologies/plastic-mulches/summary-and-recommendations-for-the-use-of-mulch-color-in-vegetable-production>

[*VegEdge*, Vol. 12, Iss. 18, 8/17/2016, pg 7 featured a similar article, **Plastic Mulch – Does Color Matter?**, written by Jodi Callwood and Darcy Telenko, CCE Cornell Vegetable Program. ed. A. Parr, CCE CVP]



Red plastic mulch reflects red light waves that are absorbed by the tomato plant, increasing foliage and fruit.

Photo: Angela Parr, CCE Cornell Vegetable Program

# 2017 Vegetable Pesticide Updates

Christy Hoefting and Amy Celentano, CCE Cornell Vegetable Program

**Changes in pesticide registrations occur constantly and human errors are possible. Read the label before applying any pesticide. No endorsement of companies is made or implied. Other pesticide updates that we missed are welcome. Information was last updated on April 25, 2017. Updates after this date will be posted in future issues of VegEdge.**

NOTE: We only included the uses that pertain to vegetables. Several labels include uses in fruit and field crops as well.

## New Registrations (i.e. new EPA No.)

- **ENGENIA Herbicide:** (EPA No. 7969-345; a.i. N, N-Bis- (3-aminopropyl) methylamine salt of 3, 6-dichloro-o-anisic acid; BASF). For pre and post-emergent control of annual, biennial and perennial broadleaf weeds, woody brush and vines in asparagus. This is BASF's new formulation of low-drift dicamba.
- **LEAP ES Biological Insecticide and for Bacterial Disease Management:** (EPA No. 73049-500; a.i. *Bacillus thuringiensis* subsp. *Kurstaki*, strain ABTS-351 and methyl salicylate; Valent). For control of various worm (caterpillar) pests and variegated cutworm; and for control of bacterial diseases (*Pseudomonas* spp. and *Xanthomonas* spp.) in peppers and tomatoes.
- **LUNA EXPERIENCE Fungicide:** (EPA No. 264-1091; a.i. fluopyram and tebuconazole; Bayer). Broad-spectrum fungicide for foliar disease control (Alternaria, Anthracnose, Botrytis, Cercospora, Powdery mildew, Rhizoctonia, Rust, Scab, Sclerotinia, etc) in Brassica leaf vegetables (e.g. broccoli raab, Bok Choy, Collards, mustard greens, etc.), edible podded legumes (beans, peas, etc.) and dried shelled legumes (except cowpea, dried pea and soybeans), melon, onion (both dry bulb and green sub-groups), and squash/cucumber.
- **LUNA SENSATION Fungicide:** (EPA No. 264-1090; a.i. fluopyram and trifloxystrobin; Bayer). Broad-spectrum fungicide for control of plant diseases (Alternaria, Anthracnose, Cercospora, Downy mildew, Powdery mildew, Rhizoctonia, Sclerotinia, etc) in Brassica head and stem vegetables (e.g. broccoli, cabbage, Brussels sprouts, etc.), Brassica leafy vegetables (e.g. Broccoli raab, Bok choy, mustard greens, etc.), carrot, eggplant, leafy greens (e.g. spinach, radicchio, etc.), melon, pepper, squash/cucumber, tomato and root vegetables (e.g. beets, radish, turnips, celeriac, etc., NOT sugar beet) and herbs.
- **LUNA TRANQUILITY Fungicide:** (EPA No. 264-1085; a.i. fluopyram and pyrimethanil; Bayer). Broad spectrum fungicide for control of plant diseases (Alternaria, Botrytis leaf blight, Cladosporium leaf blotch, neck rot, Purple blotch, Stemphylium leaf blight, suppression of white rot) in onion (dry bulb and green sub-groups), root vegetables (beets, carrots, radish, etc. NOT sugar beet), tomato, tuberous and corm vegetables including potatoes. **NOTE: Luna Tranquility was available in 2016 only on onions as a 24 (C) Special Local Needs (SLN) Label; until the old packaging is used up, Luna tranquility may only be used on onions (and apples, which also had a 24 (C)).**
- **NEALTA Miticide:** (EPA No. 7969-336, a.i. cyflumetofen; BASF). New mode of action for control of several mites species in tomatoes.
- **PROPULSE Fungicide:** (EPA No. 264-1084; a.i. fluopyram and prothioconazole; Bayer). For foliar disease control (Anthracnose, Grey mold, Mycosphaerella blight, Powdery mildew, White mold, etc.) in dry beans.
- **SPEAR Biological Insecticide:** (EPA No. 88847-2; a.i. GS-omega/kappa Hxtx-Hv1a; Vestaron). For control of worms/caterpillars, beetles and thrips in most vegetables – see label.
- **TRIDENT Insecticide:** (EPA No. 70051-120; a.i. *Bacillus thuringiensis* subsp. var. *tenebrionis* strain SA-10; Certis). Biological insecticide for control of Colorado potato beetle in eggplant, potato, and tomato.
- **VACCIPLANT Plant Defence Stimulant:** (EPA No. 83941-2-66330; a.i. Laminarin; Arysta Lifescience). Foliar and soil-applied for broad-spectrum control of diseases in asparagus, Cole crops, sweet corn, all cucurbits, fruiting vegetables (eggplant, tomatoes, etc) bulb vegetables (onions, garlic, etc.), leafy vegetables (lettuce, spinach, etc.), legumes (peas and beans), root crops (e.g. carrot, beets) and potatoes.
- **VELIUM PRIME Fungicide and Nematicide:** (EPA No. 264-1078; a.i. fluopyram; Bayer). Soil treatment for control of powdery mildew and new mode of action for control of nematodes in Brassica head stem vegetables (e.g. broccoli, cabbage, Brussels sprouts, etc.), melons, squash/cucumbers, potatoes, sweet potatoes and tomatoes.
- **ZAMPRO Fungicide:** (EPA No. 7969-302; a.i. ametoctadiazin, dimethomorph; BASF). For control of downy mildew, Phytophthora blight and late blight diseases in brassica head/stem (cabbage, broccoli, Brussels sprouts, etc.), brassica leafy (broccoli raab, mustard greens, etc.), bulb vegetables (dry bulb onion, green onion, garlic, etc.), all cucurbits, fruiting vegetables (tomato, pepper, etc.), potato and leafy vegetables (endive, lettuce and spinach, etc.).

## Label Expansions (new pests added to updated version of label)

- **AVAUNT Insecticide:** (EPA No. 352-597; a.i. indoxacarb; DuPont). Label expanded to include dry beans and snap beans, and higher rates have been approved. For control of corn borers.

continued on next page

- **PROWL H<sub>2</sub>O Herbicide:** (EPA No. 241-418; a.i. pendimethalin; BASF). Label expanded to include melons. For pre-emergent control of annual grasses and selected broadleaf weeds.
- **REVUS Fungicide:** (EPA No. 100-1254; a.i. mandipropamid; Syngenta). Seed piece treatment for control of late blight and suppression of pink rot in potatoes.

#### **FIFRA 2(ee) Recommendations (unlisted pest for crop already on label)**

- **EXIREL insecticide:** (EPA No. 352-859; a.i. Cyantraniliprole; DuPont). For control of Swede Midge on Brassica crops.

**Note: Users must have a copy of both the approved SLN, 2(ee) or supplemental label, AND the primary label in their possession at the time of application. See section on how to look up pesticides labeled in New York.**

#### **Label Name Changes**

- **VOLIAM EXPRESS Insecticide** (EPA No. 100-1320) name changing to **BESIEGE Insecticide:** (EPA No. 100-1402; a.i. chlorantraniliprole, lambda-cyhalothrin; Syngenta). **Use up existing stocks of Voliam Xpress.** For control of various beetles,

worms, bugs, flea beetle, etc. in Brassica head and stem vegetables (broccoli, cabbage, Brussels sprouts, etc), cucurbits, succulent and dried legumes, fruiting vegetables (eggplant, pepper, etc.), lettuce, sweet corn, tomato.

#### **Products Being Phased Out**

- **BELT Insecticide:** (EPA No. 264-1025; a.i. flubendiamide; Bayer). Bayer stopped shipping and selling Belt as of 7/29/16. It can be sold and applied through 12/31/19, and it is canceled for 2020. 🚫

How to

## **LOOK UP LABELS** for Pesticides Labeled in New York – New Location

Out with the old and in with the new!

The “NYS Pesticide Product, Ingredient and Manufacturer System (PIMS)” website is now disabled, and the NY DEC has enabled a new, more streamlined database, called the “New York State Pesticide Administration Database (NYSPAD)” portal. It is available at <http://www.dec.ny.gov/nyspad/products>.

On the right-hand side of your screen, you can search by EPA Registration Number, Product name, Registrant, Pesticide Use/Type or Other (including but not limited to: Restriction, Formulation, and Registration Status).

Enter the information that you are looking for and scroll down to click “Search”. A list of products will come up with some basic information including full product name, EPA registration number, manufacturer and restrictions. For the product that you are interested in, click the “More” button to access a lists of the active ingredient(s) and labels. All label types will be presented including primary, supplemental, 2(ee) and 24 (c) labels. The most recent label will be at the bottom of that list. 🚫

Revised 2017, C. Hoepting, CVP

## **Grants for Dry Bean Research Awarded**

The New York Dry Bean Association awarded a total of \$31,764 for 5 research projects. The funds for these grants come from the Dry Bean Endowment. The following projects were awarded for 2017:

Researchers	Title	TOTAL
Griffiths	Breeding, evaluation and development of dry bean varieties that are highly adapted to NYS growing environments and markets	\$11,729
Hamlin	Cool School Food: Encouraging the use of dry beans in school lunches, and promoting the health aspects of dry bean consumption.	\$1,955
Pethybridge	Towards a durable management strategy for white mold in dry beans in New York (2017/18)	\$6,840
Reiners, Ballerstein	Comparison of new and standard dry bean varieties at NYSAES	\$7,819
Zuefle	Determine the magnitude and distribution of Western Bean Cutworm, and the risk to dry beans, in the major production area in New York	\$3,421

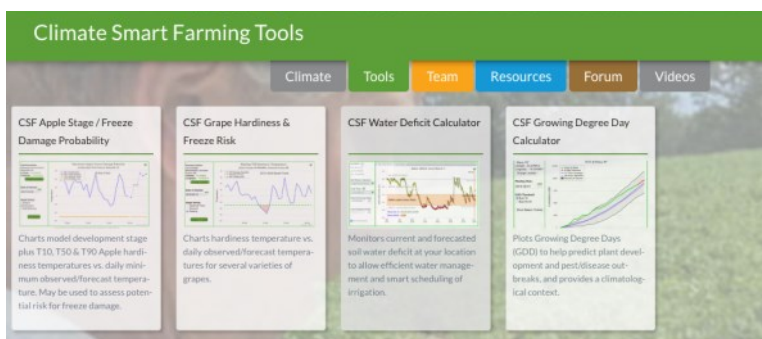
**TOTAL AWARDS \$31,764** 🚫

# Cornell's Climate Smart Farming Program: Online Decision Support for Farmers in a Changing Climate

Jonathan Lambert and Allison Chatchyan, Cornell Institute for Climate Smart Solutions; ed. by D. Telenko, CCE CVP

With increasing heavy precipitation events, short-term drought, shifting growing seasons, and higher temperatures, climate change is having a significant impact on agriculture in the Northeast. These forces can wreak havoc on any farm, but there are ways to guard against them and even take advantage of some, which is what the Cornell Climate Smart Farming (CSF) Program is focused on. Cornell CSF gives farmers in New York and the Northeast the tools and information needed to respond to extreme weather, climate change, and climate variability, while maintaining their bottom line. The CSF website ([climatesmartfarming.org](http://climatesmartfarming.org)) is the main portal for the free online decision tools, resources, and other CSF-specific information used by farmers, extension, and consultants to achieve this goal.

The CSF tools, in particular, combine weather and climate data at any location (by address, zip code, etc.) in the Northeast, and are updated daily to give users accurate short-term projections. The CSF tools currently available on the site (see picture) were developed in collaboration with the Northeast Regional Climate Center, and include a Growing Degree Day (GDD) Calculator, Apple and Grape Freeze Risk Tools, and a Water Deficit Calculator. Additional tools for extreme events such as heat stress are also planned.



The tools were particularly useful during recent extreme events, such as the 2016 summer drought and the 2017 spring freezes. Farmers at Empire Farm Days in Seneca Falls, NY remarked at the accuracy of the Water Deficit Calculator in capturing plant stress conditions on their farm in 2016, and enjoyed seeing the tool's 3-day forecast, especially as critical harvest periods approached. Fishkill Farms Manager, Mark Doyle, also commented on the freeze tools, which give a 6-day forecast, stating that: "Along with other factors, I will be looking at this tool to understand the weather situation in front of me and the freeze risk facing our apple trees."

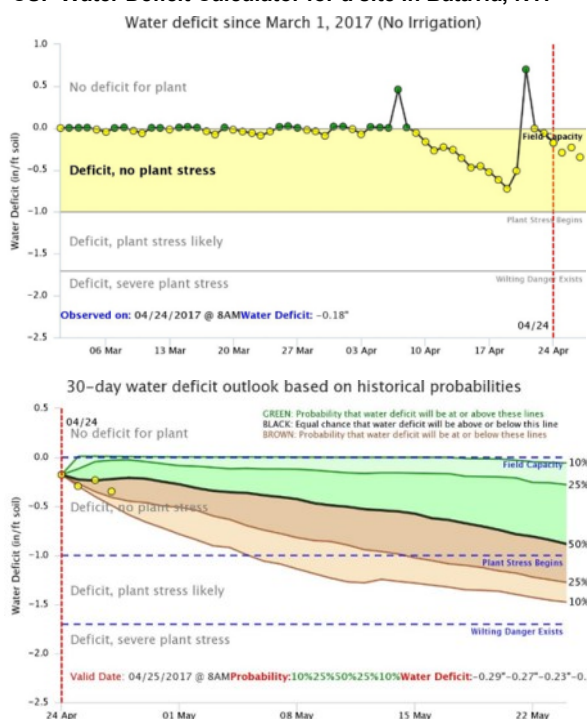
The CSF tools can also be used in combination with other tools such as those from the Network for Environment and Weather Applications (NEWA). For example, the CSF GDD calculator provides climatological data on GDD as well as a 6-day forecast that can be useful for seeing pest development and determining best management practices, especially when combined with NEWA's pest management tools. The CSF site provides easy access to other tools as well, such as those from NEWA, the US Drought Monitor, seasonal forecasts, and greenhouse gas accounting tools.

In addition to Decision Tools, the website provides contact information for the Cornell CSF Extension Team in New York, resources and best management practices such as the [USDA Adaptation Resources for Agriculture](http://USDAAdaptationResourcesforAgriculture), an online forum for farmer-to-farmer interaction, and a multimedia section with videos featuring farmers who have made changes on their farm to increase resiliency and energy efficiency.

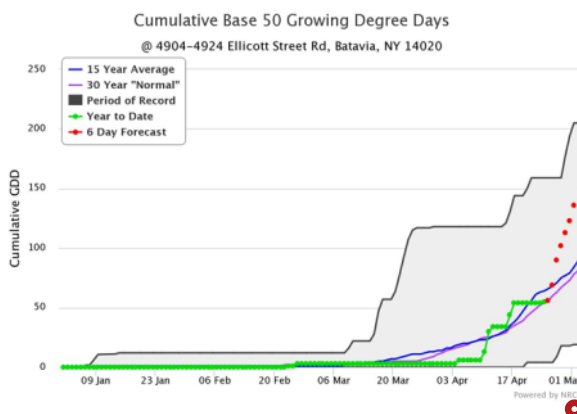
Feel free to check out the tools and resources, or contact one of the CSF Extension team members for help in using the tools at [cicss@cornell.edu](mailto:cicss@cornell.edu).

An example of how the tools generate information that would be useful for vegetable growers:

## CSF Water Deficit Calculator for a site in Batavia, NY.



## CSF Growing Degree Day Calculator for a site in Batavia, NY.



## UPCOMING EVENTS *view all Cornell Vegetable Program upcoming events at [cvp.cce.cornell.edu](http://cvp.cce.cornell.edu)*

### Elba Muck Donut Hour Every Tuesday

June 6 - August 15, 2017 | 8:30 AM - 9:30 AM  
Elba muck, corner of Transit and Spoilbank, Elba, NY



Meet with Cornell Vegetable Program Specialist Christy Hoepting every Tuesday morning to ask questions and share your observations. Grower experience is combined with research and scouting information for a whole lot of talk about growing ONIONS! Questions? Contact Christy Hoepting at 585-721-6953.

### Fresh Market Minutes - Every Other Tuesday in Eden Valley

June 6 - August 29, 2017 | 9:00 AM - 10:00 AM  
Across from W. D. Henry & Sons, Inc., 7189 Gowanda State Rd, Eden, NY 14057



*New this year!* Meet with the Cornell Vegetable Program Specialist Darcy Telenko every other Tuesday morning to ask questions and share your observations in fresh market vegetables. Darcy will be in Eden Valley on the first and third Tuesdays June - August. Questions? Contact Darcy Telenko at 716-697-4965.

### Fresh Market Minutes - Every Other Tuesday in Niagara County

June 13 - September 5, 2017 | 9:00 AM - 10:00 AM  
Location TBA soon!



*New this year!* Meet with the Cornell Vegetable Program Specialist Darcy Telenko every other Tuesday morning to ask questions and share your observations in fresh market vegetables. Darcy will be in Niagara County on the second and fourth Tuesdays during the 2017 season. Questions? Contact Darcy Telenko at 716-697-4965.

### 2017 Oswego Muck Onion Twilight Meeting

June 22, 2017 | Time and Location TBD



This on-farm meeting will provide crucial, in-season research to aid onion growers with their management decisions to keep them profitable. The twilight meeting will emphasize strategies to prevent economic loss from onion pests and weeds. DEC recertification credits will be available. More details soon. Contact Christy Hoepting at 585-721-6953 with questions.

### Fresh Market Vegetable Field Day

June 26, 2017 | 9:00 AM - 3:00 PM  
CVP Fresh Market Demo Site at Partridge's on the Farm Market  
4924 Ellicott St Rd (Rt 63), Batavia, NY 14020



View demonstration plots to exemplify early disease detection and weed management options for fresh market vegetable production. In addition to the demonstration plots, sessions will be offered throughout the day on weed and disease identification and biology, soil health and resistance management by CVP team members and county agriculture Educators. Regional equipment dealers and industry representatives will be invited to display equipment and new technology. CCA and DEC credits will be available. More details about the topics will be available soon.

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# VEGEdge

YOUR TRUSTED SOURCE FOR RESEARCH-BASED KNOWLEDGE

## VEGEdge

YOUR TRUSTED SOURCE FOR RESEARCH-BASED KNOWLEDGE

VegEdge is the award-winning newsletter produced by the Cornell Vegetable Program in Western New York. It provides readers with information on upcoming meetings, pesticide updates, pest management strategies, cultural practices, marketing ideas and research results from Cornell and Cornell Cooperative Extension. VegEdge is produced every few weeks, with frequency increasing leading up to and during the growing season.

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