



## Highlights of Fruit IPM Activities – 2018

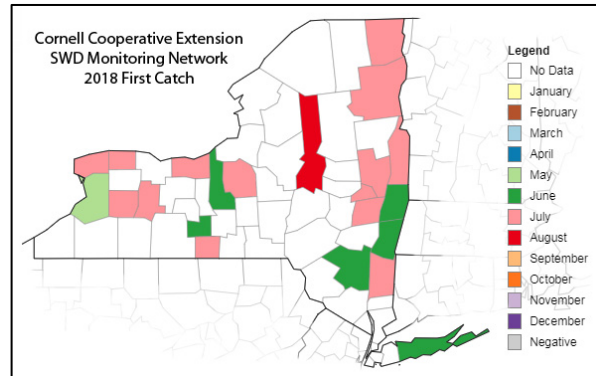
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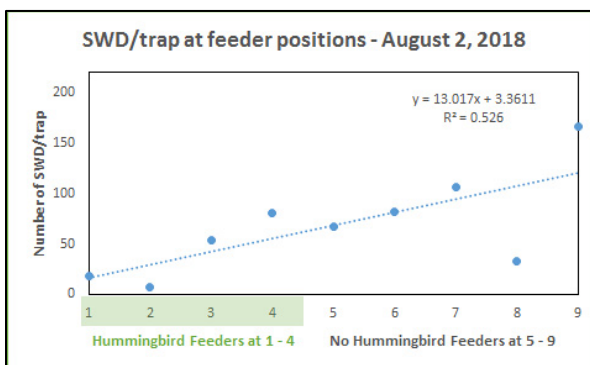
### Spotted Wing Drosophila (SWD)

**Coordinated a monitoring network** with 12 Cornell University extension scientists in 23 NY counties. First trap catch occurred over a ten-week-long period, May 22 (Eric County) to August 2 (Herkimer County).

**SWD in tart cherry** In 2017, tons were rejected and dumped. Using monitoring and 1-SWD-caught threshold, growers successfully managed SWD and delivered their crop to the processor without rejection due to SWD in 2018.



SWD distribution map showing month of first trap catch.



Fewer SWD caught in positions 1-4, more caught in 5-9 along a transect in a raspberry.

### **Hummingbird predation of SWD**

Preliminary data analysis for 2018 showed that, when the SWD numbers being caught were moderate, there was a difference in the number of SWD caught in Scentry traps placed in area of the field with hummingbird feeders compared to those in the area of the field without feeders. Two grower demonstration were done, one in blueberry in western NY and one in raspberry in eastern NY.

### Grape IPM

**eNEWA daily email alerts** give results for NEWA grape berry moth and grape diseases tools to growers across NY State; they will be surveyed on outcomes.

**Spotted lanternfly**, Providing IPM recommendations to aid in pest detection, identification, management, and reduction of spread of this pest. Weigle is leading the NYS IPM Program effort on SLF and is on the NYS Spotted Lanternfly Incident Command System.

**Alternative management strategies for grape rootworm.** Project aimed at basic pest biology, scouting and management strategies using 4 new FIFRA 2(ee) insecticides.

### Hops IPM

**Weed IPM and mite biocontrol experiments are ongoing in hops** in Portland, NY.

### Farm Bill Commodity Survey

**We contribute to field surveys in NY vineyards and orchards** for exotic pests and plant diseases. None found in 2018. The survey is elucidating occurrence of viral diseases in grapes and apples. A fact sheet on velvet longhorn beetle will be written to support the NY commodity survey.

## **We reach fruit audiences with IPM information**

***Meetings, Presentations, Workshops: 49 given, reaching 1,614 people in 2018, so far.***

39 growers were educated about *Hops IPM* in 4 extension presentations.

266 growers and others in the Lake Erie grape industry took part in discussions of timely, research-based IPM topics at 16 weekly “Coffee Pot” meetings during the growing season.

124 growers learned about implementing NEWA into their vineyard operations in two presentations.

228 growers, educators, researchers and regulators learned about spotted lanternfly in four extension presentations.

35 grape growers learned about bird damage management in one presentation.

26 applicators learned about pesticide application and safety at a core credit training event.

572 growers, educators, and researchers learned about NEWA and fruit forecast models in eight presentations.

324 growers, educators, and researchers learned about SWD management, status in NY, impact on stone fruit in NY and IPM priorities in 12 presentations and one workshop.

### **Fruit IPM Publications:**

Weigle is coordinating editor for the **2018 New York and Pennsylvania Pest Management Guidelines for Grapes** and the **2018 Cornell Integrated Hops Production Guide**.

Carroll posts content to the **Spotted Wing Drosophila blog**, [blogs.cornell.edu/swd1/](https://blogs.cornell.edu/swd1/), which has 298 subscribers. 50 posts authored in 2018, focusing on grower alerts.

Carroll has developed **15 fact sheets on invasive insects to support the Farm Bill Survey**. Find them here, [nysipm.cornell.edu/agriculture/fruits/invasive-species-exotic-pests](https://nysipm.cornell.edu/agriculture/fruits/invasive-species-exotic-pests).

Weigle developed 18 **podcasts on grape and hops IPM**, posted at [lergp.com/podcasts/](https://lergp.com/podcasts/)

Weigle developed 5 **podcasts on spotted lanternfly and tree-of-heaven identification** and reporting were produced and posted to the web and social media.

### **Fruit IPM Resources:**

**NEWA fruit pest and crop forecast tools available** at [newa.cornell.edu](https://newa.cornell.edu) .

Carroll is leading the website rebuild. Weigle delivers an eNEWA email alert for grapes.

#### **Fruit forecast model tools**

- 5 grape pest forecast models
- 10 apple pest forecast models
- 2 apple irrigation & thinning models
- 4 berry models under development
- 1 apple model under development

#### **Online courses planned:**

- Implementing NEWA...*
- in a vineyard IPM strategy*
- in an orchard IPM strategy*

**Trac Software, through Cornell Technology Licensing**. For 6 fruit crops, promotes better pesticide recordkeeping and reporting.

**Cornell Fruit Resources** [fruit.cornell.edu](https://fruit.cornell.edu), Carroll is coordinating editor.