

# SCAFFOLDS Fruit Journal, Geneva, NY

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Update on Pest Management and Crop Development

August 28, 2017

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## COMING EVENTS

	43°F	50°F
Current DD* accumulations		
(Geneva 1/1-8/28):	2881.9	1925.6
(Geneva 1/1-8/28/2016):	3140.3	2208.8
(Geneva "Normal"):	3033.0	2098.3
(Geneva 1/1-9/4, predicted):	3026.9	2022.2
(Highland 1/1-8/28):	3443.0	2384.0

## Upcoming Pest Events – Ranges (Normal +/- Std Dev):

### American plum borer

2nd flight subsides..... 2927-3353 2018-2372

Apple maggot flight subsides ..... 2772-3258 1907-2283

Codling moth 2nd flight subsides 2846-3462 1923-2447

### Lesser appleworm

2nd flight subsides..... 2794-3488 1918-2422

### Lesser peachtree borer

flight subsides..... 2996-3446 2017-2433

### Obliquebanded leafroller

2nd flight peak..... 2605-3019 1767-2101

Oriental fruit moth

3rd flight peak ..... 2650-3200 1822-2216

Peachtree borer flight subsides . 2478-3126 1672-2180

Redbanded leafroller

3rd flight peak ..... 2704-3174 1867-2201

San Jose scale

2nd flight subsides..... 2673-3419 1813-2429

Spotted tentiform leafminer

3rd gen flight peak..... 2561-3002 1743-2093

White apple leafhopper

2nd brood adults 1st catch..... 2770-3098 1948-2252

\*[all DDs Baskerville-Emin, B.E.]

TRAP CATCHES (Number/trap)

Geneva

	8/17	8/21	8/25	8/28
Redbanded Leafroller	5.5	25.0	26.0	8.5
Spotted Tent. Leafminer	128.0	171.0	96.5	32.0
Oriental Fruit Moth	21.5	21.5	34.5	25.0
Codling Moth	9.0	31.5	13.5	1.0
Lesser Peachtree Borer	5.0	10.5	5.5	3.5
Peachtree Borer	1.5	1.5	0.0	0.5
Obliquebanded Leafroller	2.0	4.5	2.5	1.0
Apple Maggot	2.3	1.0	0.0	0.0

Highland (Peter Jentsch)

	8/7	8/14	8/21	8/28
Redbanded Leafroller	10.0	11.5	24.0	47.0
Spotted Tent. Leafminer	198.5	208.0	325.0	122.0
Oriental Fruit Moth	2.5	1.5	12.0	15.5
Lesser Appleworm	13.0	5.0	4.5	5.0
Obliquebanded Leafroller	3.5	5.0	2.0	3.0
Codling Moth	16.5	3.5	9.0	9.5
San Jose Scale	227.0	885.5	317.5	90.5
Sparganothis Fruitworm	11.0	0.0	0.0	0.0
Variegated Leafroller	2.0	3.0	2.0	3.5
Tufted Apple Bud Moth	0.0	0.0	0.0	0.0
Dogwood Borer	29.5	15.5	12.0	9.0
Apple Maggot	1.5	2.3	1.3	0.5

## **[Section: INSECTS]**

### 2017 FRUIT ARTHROPOD PEST REVIEW

(Art Agnello, Entomology, Geneva; [ama4@cornell.edu](mailto:ama4@cornell.edu))

## **[Box Text: EYES ON THE REPRISE]**

With a less-than-frigid winter behind us, the expectation for this year was naturally for relatively moderate and maybe even warm summer weather during the growing season, and for the first few months, we actually did manage to stay within view of the long-term average temperatures, so tree

development through May was generally comparable to the most recent 5-year average. However, frequent rains during the period delayed field work and affected pest development accordingly (favorable for scab, not so much for insects and mites). By mid-May, the entire state was officially out of its previous drought status, but the wet weather continued into June and July, which made it hard to tell whether we were ever going to see any "real" summer conditions. As of mid-July, we've been as much as 150 DD behind our 15-year average degree day levels, and it doesn't look like we're catching up anytime soon.

True to most NY springs, **plum curculio** posed something of a challenge around the state, with some growers unable to beat the adults to the fruitlets on the front end, and not always protecting them long enough at the end of the egg-laying period. **Oriental fruit moth** and **codling moth**, the traditional drivers of many insect management programs, occurred generally on schedule in early and late May, respectively, and continued to fly at normal levels for the remainder of the season. **Obliquebanded leafroller** was again present as usual, but didn't seem to pose many serious problems in most areas. Predictably, mites responded to the wet conditions by occurring only at low numbers, if at all.

**Apple maggot** was somewhat delayed in its normal first occurrence, probably because too much soil moisture promotes disease attacks in the pupae, but continues to be caught at moderate levels in most parts of the state. Scale pests, including not only **San Jose** but also **Prunicola scale**, required diligent attention in several areas of the state, but so far, we haven't seen too much in the way of **woolly apple aphid** infestations (knock wood).

This seems to have been a season for greater than normal numbers of **Japanese beetle** and **potato leafhopper**, but the breakout pest problem of the year was undeniably Spotted wing drosophila, which showed up earlier than usual (mid-June) and was therefore able to zero in on tart cherries and even sweet cherries still on the trees. Many plantings were decimated, and hundreds of loads were rejected. Also this year, **brown marmorated stink bug** started showing up in WNY traps much earlier in the season, with moderate but regular numbers of adults being caught as early as May. Also, lately we've been catching nymphs in fairly high numbers, which could indicate a greater potential for late season apple damage in this part of the state; in contrast, numbers in the Hudson Valley have been lower than usual.

Finally, the troublesome **black stem borer** ambrosia beetle, a primary or at least secondary cause of tree decline and death in numerous plantings around the state, continues to be a problem. A definitive solution for this pest is yet to be found, and the stress caused by wet conditions this year following the drought conditions last year makes the case for our continued awareness of how easily these trees can become targets for attack.

## **[Section: GENERAL INFO]**

### EVENT ANNOUNCEMENTS

#### CORNELL FRUIT PEST CONTROL FIELD DAYS

The N.Y. Fruit Pest Control Field Days will take place during Labor Day week on Sept. 7-8 this year, with the Geneva portion taking place on Thursday Sept. 7, and the Hudson Valley installment on the second day, Friday, Sept. 8 (yes, that's a day later in the week than we usually hold it, but we've decided to push it back to accommodate some of our presenters' teaching schedules). Activities will commence in Geneva on the 7th, with registration, coffee, etc., in the lobby of Barton Lab at 8:30 am. The tour will proceed to the

orchards to view plots and preliminary data from field trials involving new fungicides, bactericides, miticides, and insecticides on tree fruits and grapes. It is anticipated that the tour of field plots will be completed before noon. On the 8th, participants will register at the Hudson Valley Laboratory starting at 8:30, after which they will view and discuss results from field trials on apples and other fruit crops. No pre-registration is required for either event.

## 2017 NY FARMER HEAVY RAINFALL SURVEY

### **[Box text: WHEN IT RAINS...]**

Last year, we published the results of a NY State farmer drought survey put together by David Wolfe and Shannan Sweet (Horticulture Section, SIPS). This year, given the numerous heavy rainfall events and flooding issues farmers have faced, they would like to do a similar survey to see how the excessively wet 2017 season has impacted farmers, as well as if and how they were able to cope with the unusually wet spring and summer conditions. This is in hopes of gaining a better understanding of what farmers do or need to be able to cope with heavy rainfall events and flooding issues in the future. Please consider filling out the survey at the following online link:

[https://cornell.qualtrics.com/jfe/form/SV\\_0uo09Hc67IsVFf](https://cornell.qualtrics.com/jfe/form/SV_0uo09Hc67IsVFf)

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