

COMING EVENTS

	43°F	50°F
Current DD* accumulations		
(Geneva 1/1-7/25):	2102.8	1409.3
(Geneva 1/1-7/25/2015):	1956.1	1311.1
(Geneva "Normal"):	2116.9	1420.9
(Geneva 1/1-8/1, predicted):	2323.8	1581.3
(Highland 1/1-7/25):	2558.6	1736.0

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

Apple maggot peak flight.....	2116-2646	1419-1831
American plum borer		
2nd flight peak .....	2005-2575	1351-1777
Codling moth 2nd flight peak.....	1959-2709	1302-1874
Comstock mealybug		
2nd gen crawlers emerging.....	2234-2624	1505-1781
Lesser appleworm		
2nd flight peak .....	2154-3098	1440-2150
Obliquebanded leafroller		
2nd flight start.....	2228-2634	1499-1821
Oriental fruit moth		

2nd flight subsides .....	2059-2537	1372-1770
Oriental fruit moth		
3rd flight start .....	2271-2833	1539-1967
Redbanded leafroller		
2nd flight subsides .....	2161-2721	1456-1876
San Jose scale 2nd flight peak.....	2137-2493	1440-1742
STLM 2nd flight subsides .....	1998-2364	1321-1633
STLM 3rd flight start .....	2259-2641	1515-1833
White apple leafhopper		
1st brood adults subside .....	2195-2521	1564-1792
*[all DDs Baskerville-Emin, B.E.]		

## Pest Focus

Highland: San Jose 2nd generation flight continuing.

Codling moth 2nd generation flight continues with egg laying and hatch observed.

Apple maggot trap captures increasing with threshold reached.

BMSB trap captures very low. No threshold observed in Hudson Valley orchard monitoring sites.

## TRAP CATCHES

Geneva (Number/trap)

	7/11	7/15	7/18	7/25
Redbanded Leafroller	2.5	19.5	9.5	11.0

Spotted Tentiform Leafminer	42.5	73.0	53.0	31.0
Oriental Fruit Moth	3.5	0.0	0.0	0.0
Lesser Apple Worm	0.0	0.0	0.0	1.0
Codling Moth	0.0	0.5	4.5	24.0
American Plum Borer	0.0	0.0	0.0	0.0
Lesser Peachtree Borer	0.0	0.5	0.0	0.0
Obliquebanded Leafroller	0.5	0.0	0.0	0.0
Pandemis Leafroller	0.0	0.0	0.0	0.0
Dogwood Borer	8.0	0.0	0.5	0.0
Peachtree Borer	3.0	6.0	0.0	0.5
Apple Maggot	0.0	0.0	0.0	0.7

#### Highland (Peter Jentsch)

	7/5	7/11	7/18	7/25
Redbanded Leafroller	45.0	21.5	14.5	3.5
Spotted Tentiform Leafminer	214.5	119.5	60.5	151.0
Oriental Fruit Moth	4.5	10.0	3.5	1.5
Lesser Appleworm	25.0	10.0	4.0	9.0
San Jose Scale	1.5	2.5	15,680+	3696
Codling Moth	7.5	32.5	69.0	52.0
Obliquebanded Leafroller	22.0	11.0	5.5	10.0
Dogwood Borer	9.5	5.0	5.5	2.5
Brown Marmorated Stink Bug	0.0	0.0	0.0	0.0
Apple Maggot	0.0	2.8*	4.3	7.8

\* 1st catch

## ORCHARD RADAR DIGEST

### [Box Text: SUMMER SPECIALS]

#### Geneva Predictions:

Roundheaded Appletree Borer

Peak RAB egg hatch roughly: July 8-27.

Dogwood Borer

Peak DWB egg hatch roughly: July 27.

Codling Moth

Codling moth development as of July 25: 2nd generation adult emergence at 36% and 2nd generation egg hatch at 7%.

2nd generation 7% CM egg hatch: July 25 = target date for first spray where multiple sprays needed to control 2nd generation CM.

2nd generation 30% CM egg hatch: August 2 = target date where one spray needed to control 2nd generation CM.

White Apple Leafhopper

2nd generation WAL found on apple foliage: August 2.

### [Section: INSECTS]

NOT A PICNIC

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

### [Box Text: DOG DAY DUTIES]

Most of the season's major arthropod pest control decisions are likely to be completed during the next couple of weeks. As you prepare to make what may be your final passes through the orchard for crop protection purposes before starting to concentrate on harvest activities, try to keep alert to any late-breaking pest developments that might conceivably round out the summer. As in most years, forecast weather trends appear to be more of what we've been having in terms of heat (it ain't over yet) and rain (precious little), which will have their specific impacts on insect activity, depending on the species. Here's a quick rundown of some of the more important late July-August pests to keep in mind during this homestretch.

## **Apple Maggot**

Adult numbers have been increasing in the Wayne Co. orchard sites where we're trapping for them this year. In historically high-pressure orchards, early to mid-August is the most active period for flies to be out and laying eggs. With a few recent rains softening the ground and easing the process of adult emergence, we're sure to see further upticks in trap numbers during this period. As always, targeted trapping can pay off in the event that some blocks are under greater pressure than others, even on the same farm, so please continue to monitor traps in representative "problem" blocks. Our best options these days are Imidan,

Assail, and to a somewhat lesser degree, Altacor, Avaunt, Delegate, Exirel, certain premixes such as Endigo, Leverage, Voliam Xpress, and the pyrethroids.

## **Internal Lepidoptera**

This complex of fruit-feeding larvae continues to pose a threat in several problem sites. The second generation flights are under way, and are even becoming heavy in some cases, so it pays to stay on top of the situation in your specific orchard. Some spots with fruit damage have been noted, but in general, most orchards look to be in good shape.

Conditions are still favorable for good August flights, particularly for codling moth. The 2nd generation egg hatch will be well under way in the most advanced areas of the state this week, so we're definitely in the window for control sprays against the smallest larvae. This is an appropriate time for management sprays for oriental fruit moth as well, so prudence would dictate a critical evaluation of your late-season fruit protection status, to be sure you are adequately covered until the PHI for the various respective varieties.

Recommended options in apples include Altacor, Assail, Belt, Delegate, Exirel, or Voliam Xpress. In peaches, you

can use Altacor, Assail, Delegate, or Voliam Xpress. Pyrethroids and OPs may be less suitable because of locally resistant populations. This is also a suitable time for Cyd-X or Carpovirusine granulosin virus applications against codling moth, or Madex HP against both OFM and codling moth; these products will help to lower overall population levels over the long term. Alternate row middle applications will not be as effective as whole orchard sprays in high pressure blocks. Assess the pressure in your specific situations, check the pre-harvest intervals, and determine whether a full or border spray might be in order. In sites with more modest pressure, applications of a B.t. product on a 7–10-day schedule helps to maintain populations below an economic level; options include Deliver, Dipel, Biobit, Javelin, and MVP.

## **Comstock Mealybug**

In pears especially, this begins the period of greatest migration of 2nd generation nymphs into the fruit calyx, where they will be concealed until detected as unwelcome surprises at packinghouse inspections postharvest. In apples, infestations tend to result in blooms of sooty mold, particularly over the bottom half of fruits. Blocks with mealybug "issues" should receive a protective spray of Actara (pears only), Admire Pro (pears only), Assail (apples and pears only), Centaur, Movento, or Portal.

## **European Corn Borer**

Recall that these moths have a final flight that extends to the middle of September, and that the offspring can inflict last-minute fruit feeding damage to later varieties.

Delegate (PHI = 7 days) is a good option for control of European corn borer. Also, one or two late sprays of a B.t. product can go a long ways toward minimizing this injury, and the 0-day PHI is compatible with any harvest schedule.

## **Mites**

It can't be said often enough that mites are extremely good at exploiting any high temps to pop out a few more generations before they hang it up for the winter; twospotted spider mites are also possible, including in stone fruit plantings, particularly in a hot and dry season such as we've been having. A frequent (weekly) inspection of your foliage can pay big dividends if they happen to build rapidly before the crop is fully mature. The 7.5 mites/leaf threshold (sampling chart on p. 75 in the Recommends) would be appropriate at this point in the season.

## **Obliquebanded Leafroller**

The second summer flight of OBLR is due to start during the next 1–2 weeks, which means that the first larvae will be out looking for something to nibble on soon afterwards.



If you struggled to manage the 1st summer brood, you might also cast a judicious eye on your fruits while you're in there checking the leaves for mites, to determine whether a late application of Altacor, Delegate, Exirel, Proclaim, Rimon or a B.t. material such as Dipel, Deliver or Biobit might be of use in heading off late-season feeding damage.

### **A couple of reminders...**

- Review the comments in the [May 31](#) issue regarding management options for woolly apple aphids, which are still present and increasing.
- Japanese beetles are still to be found feeding on apple foliage. An application (or two) of a product such as Assail, Imidan, Sevin, Voliam Xpress or Endigo may be needed to curtail their damage.

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

#### EVENT ANNOUNCEMENTS

#### WAYNE COUNTY FRUITGROWER TOUR

Wednesday, August 3, from 9:00 am

Registration and 1st stop at MackQuinLe Farms, Norris Rd/Rte 104, North Rose, NY (GPS: N 43.204284, W 76.933619)

Sponsored by agr.assistance, this large, informative and entertaining tour is in its 18th year, and will feature presentations on Gala production (orchard fertility & PGR use), fireblight control, weed control, crop nutrient and biostimulant programs for new apple plantings and processing apple varieties, apple scab alerts, plus much more. Door prizes, lunch, some droll humor, a BBQ/clambake dinner with a live band, growers and industry representatives from NY and surrounding states — always a great way to spend a midsummer day. Free attendance. Contact Lindsay LaMora (585-734-8904; [lindsaylamora@agrassistance.com](mailto:lindsaylamora@agrassistance.com)) for RSVP pre-registration and tour information.

**SPANISH-SPEAKING FRUIT SUMMER TOUR IN WAYNE CO.**  
Saturday, August 13, 1:00-6:30 pm

The CCE LOF team is organizing its second Fruit Summer Tour for Spanish-speaking farmers and employees, to be held in Wayne County from **1:00 pm until 6:30 pm on Saturday, August 13, 2016**. At each of the 4 tour stops, participants will be hosted by a Spanish-speaking farmer or employee who has significant orchard experience by managing a modern apple orchard and/or a nursery operation. The tour will cover aspects related to orchard establishment, training, pruning, pest management,

orchard mechanization, tractor safety, on-farm nursery production, and fruit quality at harvest. The tour is **FREE** for your employees, but **pre-registration is required by Wednesday, August 10**. For more information (including the full program) and registration, see:

<http://lof.cce.cornell.edu/event.php?id=573>

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This material is based upon work supported by Smith Lever funds from the Cooperative State Research, Education, and Extension Service, U.S. Department of Agriculture. Any opinions, findings, conclusions, or recommendations expressed in this publication are those of the author(s) and do not necessarily reflect the view of the U.S. Department of Agriculture.

Scaffolds is published weekly from March to September by Cornell University -- NYS Agricultural Experiment Station (Geneva), and Ithaca -- with the assistance of Cornell Cooperative Extension. New York field reports welcomed. Send submissions by 2 p.m. Monday to:

Scaffolds Fruit Journal

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