Geneva Predictions:

**Roundheaded Appletree Borer**
Peak hatch roughly: July 10-28

**Codling Moth**
Codling moth development as of July 15: 2nd generation adult emergence at 6% and 1st generation egg hatch at 100%.

**Oriental Fruit Moth**
2nd generation OFM second treatment date, if needed: July 15.

**Spotted Tentiform Leafminer**
Optimum second sample date for 2nd generation STLM sapfeeding mines, if needed: July 16.

---

**PEST FOCUS**

Geneva: 1st **apple maggot** caught on traps 7/12. **Obliquebanded leafroller** larval fruit feeding damage 1st observed 7/12.

Lyons (Wayne Co.): 1st **apple maggot** trap catch 7/9 (Jim Eve).

Highland: **Pear psylla** 2nd generation nymph damage observed in Bosc. Increasing numbers of **brown marmorated stink bug** captured in traps; 4th instar nymphs observed. **San Jose scale** 2nd flight began today, 7/15. (setting biofix)
The lunch hour will feature an address by CALS Dean Kathryn Boor, NYSAES Director Tom Burr, and an announcement of the new names for Cornell’s recently released NY1 and NY2 apple varieties. Also, there will be a FREE beer sampling to spotlight the newly initiated hops research taking place at the Station. After lunch, equipment dealers and representatives from various companies will showcase their latest products and technologies to improve fruit crop production and protection.

The list of presentations will include the following topics:

**Tree Fruit Tour**
- Apple breeding at Cornell and new varieties in the pipeline
- Precision apple thinning
- Apple mechanization
- Tall Spindle management in years 1-6
- Spray volume for Tall Spindles
- Precision spraying in the orchard
- Fruit russet control on NY1
- CG rootstocks
- Nutrient removal by fruit harvest and maintenance application of fertilizers
- Impacts of glyphosate on apple tree health
- Evaluation of bactericide programs for fire blight management
- Persistent NY nematodes for plum curculio biocontrol
- Peach rootstocks
- Rain protection in cherries
- Pear systems and rootstocks
- Apple scab management in a fungicide-resistant orchard
- Impact of glyphosate on apple tree health
- Development of functional markers for apple fruit quality breeding

**Berries/Grapes/Hops Tour**
Soil and root factors in improved blueberry productivity
- Mass trapping and exclusion tactics to control Spotted Wing Drosophila in organic blueberries
- Limiting bird damage to small fruit crops
- SWD trap network in NY
- Day-neutral strawberries and low tunnel production
- SWD, a new threat to strawberries and raspberries in NY
- Enhancing pollination and biological control in strawberries
- Training systems for Arandell
- New hops variety trial and pest management trials
- Biology and control of sour rot in grapes
- Precision spraying in the vineyard
- High tunnel raspberry and blackberry production
- A fixed-spray system for SWD control in high tunnel raspberries

The event will be held on the Experiment Station’s Fruit and Vegetable Research Farm South, 1097 County Road No. 4, one mile west of Pre-emption Road in Geneva, NY. Signs will be posted. Attendees will travel by bus to the research plots to hear presentations by researchers on the work being conducted. The cost of registration is $30 per person ($40 for walk-ins) for all-day attendance. Lunch will be provided.

Pre-registration is required for the $30 rate, register online at: [http://is.gd/ffd2013](http://is.gd/ffd2013)

For sponsorship and exhibitor information, contact Debbie Breth at 585-798-4265 or [dib1@cornell.edu](mailto:dib1@cornell.edu).

Use the paper registration form, below, only if online registration is not an option.

---

**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 pm Monday to:

**scaffolds FRUIT JOURNAL**
Dept. of Entomology
NYSAES, Barton Laboratory
Geneva, NY 14456-1371
Phone: 315-787-2341 FAX: 315-787-2326
E-mail: ama4@cornell.edu

Editors: A. Agnello, D. Kain

This newsletter available online at:
[http://www.scaffolds.entomology.cornell.edu/index.html](http://www.scaffolds.entomology.cornell.edu/index.html)
Registration Form
Paper Registration Deadline: July 29, 2013
(Use this registration form only if online registration isn’t an option)

Cornell Fruit Field Day at Geneva
Presented by
Cornell University, NY State Agricultural Experiment Station,
& Cornell Cooperative Extension

Thursday, August 1, 2013
NYS Agricultural Experiment Station
Geneva, New York 14456

Name: ____________________________________________________________

Company Name: _____________________________________________________

Address: ____________________________________________________________

Phone #: ______________________ E-mail address: ____________________________

Meal choice ______ Chicken ______ Lasagna (check one)

Credit card # __________________________ Expiration Date _________________

Authorization Signature ______________________________________________

MAIL or FAX registration form, AND fee of $30
(Check payable to "Cornell University") to:

Michelle Cowles
630 W. North St.
NYS Agricultural Experiment Station, Cornell University
Geneva, NY 14456

315-787-2274 Phone
317-787-2488 Fax
STORAGE WORKSHOP – 2013
August 6th - Ithaca, NY
DEC credits pending!

PROGRAM
8.00-8.30: Registration
8.30-9.15: Honeycrisp-update on air & CA Storage (Watkins, Mattheis, DeEll)
9:15-9.35: DPA contamination in storages (Zanella)
9.35-9.55: Prediction of storage disorders with new technologies (Mattheis)
9.55-10.15: Updates from DECCO (Holowid)
10.15-10.40: Refreshment break
10.40-11.10: Gala and Empire browning (Mattheis, Watkins)
11.10-11.30: Carbon dioxide injury with & without DPA (Watkins)
11.30-12.00: Decay control in the absence of postharvest drenches (Rosenberger)
12.00-12.20: Updates from PACE (Felicetti)
12.20-1.20: Lunch
1.20-2.10: Dynamic CA and other new storage technologies (Zanella)
2.10-2.30: Minimizing energy and maximizing quality (Schaefer)
2.30-3.00: Impacts of glyphosate on internal browning: conclusions from four years of research (Rosenberger)
3.00-3.15: Afternoon break
3.15-3.30: NY1 and NY2 (Watkins)
3.30-4.15: Recommendations for 2013, and ask the "experts" (Watkins, Rosenberger, DeEll, Mattheis, Zanella)

REGISTRATION: Cost of the workshop is $70/person if paid by July 30th. $80 after July 30th and at the door. Only payments BEFORE July 30th will include lunch.

GETTING TO Morrison Hall: Please check out the following web site:http://www.cornell.edu/maps/ Morrison Hall is on the Corner of Judd Falls Rd and Tower Rd. For cheapest parking option, get permit from info booth on Tower Rd. & park behind Morrison Hall

BBQ: You are invited to attend a free BBQ on August 5th from 6 – 9PM at the Cornell Orchards. ($15/registrant’s guest or without registration before July 30.)

LODGING: A block of rooms is being held at a conference rate at the Best Western. Rooms are $109 plus tax (free breakfast and free shuttle to CU). Phone 607/272-6100. Please state that you are attending the Storage Workshop.

FURTHER INFORMATION:
Inquiries should be addressed to Max Welcome, Department of Horticulture, 134 Plant Science Building, Cornell University, Ithaca, NY 14853, phone 607/255-5439, email: mw45@cornell.edu
REGISTRATION FORM

Storage Workshop
August 6th
Fee:
$70 if postmarked by July 30th
$80 after July 30th

Name: ____________________________________________

Address: __________________________________________

City: ___________________________ State: __________

Zip code: __________________________

Telephone: __________________________

E-mail: ____________________________

Affiliation: __________________________

BBQ: yes ______ no ______

Please make check payable to:
Cornell University

Please send form and check to:
Maxine Welcome/Storage Workshop
Department of Horticulture
134 Plant Science Building
Cornell University, Ithaca, NY14853
NOTE: Every effort has been made to provide correct, complete and up-to-date pesticide recommendations. Nevertheless, changes in pesticide regulations occur constantly, and human errors are possible. These recommendations are not a substitute for pesticide labelling. Please read the label before applying any pesticide.

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.

### INSECT TRAP CATCHES

<table>
<thead>
<tr>
<th>Geneva, NY</th>
<th>Highland, NY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Redbanded leafroller</strong></td>
<td><strong>Redbanded leafroller</strong></td>
</tr>
<tr>
<td>7/8</td>
<td>7/11</td>
</tr>
<tr>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td><strong>Spotted tentiform leafminer</strong></td>
<td><strong>Spotted tentiform leafminer</strong></td>
</tr>
<tr>
<td>11.8</td>
<td>10.0</td>
</tr>
<tr>
<td><strong>Oriental fruit moth</strong></td>
<td><strong>Oriental fruit moth</strong></td>
</tr>
<tr>
<td>0.5</td>
<td>0.8</td>
</tr>
<tr>
<td><strong>San Jose scale</strong></td>
<td><strong>Lesser appleworm</strong></td>
</tr>
<tr>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td><strong>Codling moth</strong></td>
<td><strong>Codling moth</strong></td>
</tr>
<tr>
<td>0.2</td>
<td>0.0</td>
</tr>
<tr>
<td><strong>American plum borer</strong></td>
<td><strong>Obliquebanded leafroller</strong></td>
</tr>
<tr>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td><strong>Lesser peachtree borer</strong></td>
<td><strong>San Jose scale</strong></td>
</tr>
<tr>
<td>0.2</td>
<td>0.0</td>
</tr>
<tr>
<td><strong>Pandemis leafroller</strong></td>
<td><strong>Apple maggot</strong></td>
</tr>
<tr>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td><strong>Obliquebanded leafroller</strong></td>
<td><strong>Obliquebanded leafroller</strong></td>
</tr>
<tr>
<td>1.0</td>
<td>0.2</td>
</tr>
<tr>
<td><strong>Dogwood borer</strong></td>
<td><strong>Dogwood borer</strong></td>
</tr>
<tr>
<td>2.6</td>
<td>7.0</td>
</tr>
<tr>
<td><strong>Apple maggot</strong></td>
<td><strong>Apple maggot</strong></td>
</tr>
<tr>
<td>0.0</td>
<td>0.0</td>
</tr>
</tbody>
</table>

* first catch

### UPCOMING PEST EVENTS

<table>
<thead>
<tr>
<th>Event</th>
<th>43°F</th>
<th>50°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current DD accumulations (Geneva 1/1–7/15/13):</td>
<td>1824</td>
<td>1236</td>
</tr>
<tr>
<td>(Geneva 1/1–7/15/2012):</td>
<td>2205</td>
<td>1502</td>
</tr>
<tr>
<td>(Geneva &quot;Normal&quot;):</td>
<td>1800</td>
<td>1164</td>
</tr>
<tr>
<td>(Geneva 1/1–7/22 predicted):</td>
<td>2072</td>
<td>1436</td>
</tr>
<tr>
<td>(Highland 1/1–7/15/2013):</td>
<td>2098</td>
<td>1430</td>
</tr>
</tbody>
</table>

**Ranges (Normal ±StDev):**

<table>
<thead>
<tr>
<th>Event</th>
<th>34°F</th>
<th>43°F</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Apple maggot 1st oviposition punctures</strong></td>
<td>1605–2157</td>
<td>1144–1544</td>
</tr>
<tr>
<td><strong>American plum borer 2nd flight begins</strong></td>
<td>1535–2073</td>
<td>1014–1378</td>
</tr>
<tr>
<td><strong>Comstock mealybug 1st flight subsides</strong></td>
<td>1818–2132</td>
<td>1216–1418</td>
</tr>
<tr>
<td><strong>Redbanded leafroller 2nd flight begins</strong></td>
<td>1252–1580</td>
<td>771–1031</td>
</tr>
<tr>
<td><strong>Redbanded leafroller 2nd flight peak</strong></td>
<td>1554–2002</td>
<td>996–1344</td>
</tr>
<tr>
<td><strong>Lesser appleworm 2nd flight begins</strong></td>
<td>1418–2002</td>
<td>918–1326</td>
</tr>
<tr>
<td><strong>Lesser appleworm 2nd flight peak</strong></td>
<td>1378–2035</td>
<td>913–1182</td>
</tr>
<tr>
<td><strong>STLM 2nd tissue feeders present</strong></td>
<td>1385–2371</td>
<td>1137–1639</td>
</tr>
<tr>
<td><strong>Spotted tentiform leafminer 2nd flight subsides</strong></td>
<td>1535–2073</td>
<td>1014–1378</td>
</tr>
<tr>
<td><strong>Codling moth 2nd flight begins</strong></td>
<td>1535–2073</td>
<td>1014–1378</td>
</tr>
<tr>
<td><strong>Codling moth 2nd flight peak</strong></td>
<td>1535–2073</td>
<td>1014–1378</td>
</tr>
<tr>
<td><strong>Obliquebanded leafroller 1st flight subsides</strong></td>
<td>1535–2073</td>
<td>1014–1378</td>
</tr>
<tr>
<td><strong>Oriental fruit moth 2nd flight begins</strong></td>
<td>1535–2073</td>
<td>1014–1378</td>
</tr>
<tr>
<td><strong>Oriental fruit moth 2nd flight peak</strong></td>
<td>1535–2073</td>
<td>1014–1378</td>
</tr>
<tr>
<td><strong>San Jose scale 2nd flight begins</strong></td>
<td>1535–2073</td>
<td>1014–1378</td>
</tr>
<tr>
<td><strong>San Jose scale 2nd flight peak</strong></td>
<td>1535–2073</td>
<td>1014–1378</td>
</tr>
</tbody>
</table>

* first catch