COMING EVENTS

<table>
<thead>
<tr>
<th>Event Description</th>
<th>43°F</th>
<th>50°F</th>
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</thead>
<tbody>
<tr>
<td>Current DD accumulations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Geneva 1/1-7/15):</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; for this date):</td>
<td>1800</td>
<td>1164</td>
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<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>
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</tbody>
</table>

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

**American plum borer**
- 2nd flight begins...................... 1535-2073 1014-1378

**Apple maggot**
- 1st oviposition punctures........... 1605-2157 1144-1544

**Codling moth**
- 2nd flight begins...................... 1582-2256 1033-1513

**Comstock mealybug**
- 1st flight subsides..................... 1818-2132 1216-1418

**Lesser appleworm**
- 2nd flight begins...................... 1418-2002 918-1326

**Obliquebanded leafroller**
1st flight subsides .................. 1594-2028  1033-1361
Oriental fruit moth
  2nd flight peak ..................... 1471-1989  936-1338
Pandemis leafroller
  flight subsides ..................... 1419-1659  884-1066
Redbanded leafroller
  2nd flight begins ................... 1252-1580  771-1031
Redbanded leafroller
  2nd flight peak ..................... 1554-2002  996-1344
San Jose scale 2nd flight begins    1620-1966  1050-1324
Spotted tentiform leafminer
  2nd flight subsides ................ 1985-2371  1307-1639
STLM 2nd gen
  tissue feeders present ............ 1378-2035  913-1182

TRAP CATCHES (Number/trap/day)
Geneva

<table>
<thead>
<tr>
<th></th>
<th>7/1</th>
<th>7/8</th>
<th>7/11</th>
<th>7/15</th>
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<tbody>
<tr>
<td>Redbanded Leafroller</td>
<td>0.1</td>
<td>0.0</td>
<td>0.0</td>
<td>0.3</td>
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<tr>
<td>Spotted Tentiform Leafminer</td>
<td>13.4</td>
<td>11.8</td>
<td>10.0</td>
<td>34.6</td>
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<tr>
<td>Oriental Fruit Moth</td>
<td>0.1</td>
<td>0.5</td>
<td>0.8</td>
<td>0.6</td>
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<tr>
<td>San Jose Scale</td>
<td>0.0</td>
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<tr>
<td>Codling Moth</td>
<td>0.4</td>
<td>0.2</td>
<td>0.0</td>
<td>0.0</td>
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<tr>
<td>American Plum Borer</td>
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<td>0.0</td>
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<td>Lesser Peachtree Borer</td>
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<td>0.2</td>
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<tr>
<td>Pest</td>
<td>6/24</td>
<td>7/1</td>
<td>7/8</td>
<td>7/15</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>------</td>
<td>-----</td>
<td>-----</td>
<td>------</td>
</tr>
<tr>
<td>Pandemis Leafroller</td>
<td>0.4</td>
<td>0.0</td>
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<tr>
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<td>1.0</td>
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<td>0.1</td>
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<td>Dogwood Borer</td>
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<td>2.6</td>
<td>7.0</td>
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<tr>
<td>Apple Maggot</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.1*</td>
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<tr>
<td>Highland (Peter Jentsch)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>6/24</td>
<td>7/1</td>
<td>7/8</td>
<td>7/15</td>
</tr>
<tr>
<td>Redbanded Leafroller</td>
<td>2.4</td>
<td>4.6</td>
<td>2.1</td>
<td>2.1</td>
</tr>
<tr>
<td>Spotted Tentiform Leafminer</td>
<td>31.3</td>
<td>25.3</td>
<td>34.2</td>
<td>10.5</td>
</tr>
<tr>
<td>Oriental Fruit Moth</td>
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<td>4.1</td>
<td>1.2</td>
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<tr>
<td>Lesser Appleworm</td>
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<td>0.5</td>
<td>0.2</td>
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<tr>
<td>Codling Moth</td>
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<td>0.1</td>
<td>0.1</td>
<td>0.6</td>
</tr>
<tr>
<td>Obliquebanded Leafroller</td>
<td>2.7</td>
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<tr>
<td>San Jose Scale</td>
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<td>0.0</td>
<td>0.1</td>
<td>44.5</td>
</tr>
<tr>
<td>Apple maggot</td>
<td>-</td>
<td>0.0</td>
<td>0.3*</td>
<td>0.1</td>
</tr>
</tbody>
</table>

* = 1st catch

Pest Focus

Geneva: 1st Apple Maggot caught on traps, 7/12. Obliquebanded Leafroller larval fruit feeding damage observed 7/12.

Lyons: 1st Apple Maggot trap capture, 7/9 (J. 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 (biofix).

ORCHARD RADAR DIGEST

[Box Text: ROUND TWO]

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.
CORNELL FRUIT FIELD DAY

Cornell University will host the 2013 Fruit Field Day at the New York State Agricultural Experiment Station in Geneva, NY, on Thursday, August 1, from 8:00 a.m. to 5:00 p.m. The field day will be composed of two concurrent day-long tours, one of tree fruit presentations and another tour of grapes, hops and small fruit presentations. Fruit growers, consultants, and industry personnel are invited to tour field plots and learn about the latest research and extension efforts being carried out by Cornell researchers in Geneva and Ithaca and on commercial farms around the state. The event will focus on all commodities of key importance to New York's $350 million fruit industry: apples, grapes, cherries, raspberries, strawberries, blueberries and other berry crops, plus hops.

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.

+++++++++

**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:
CORNELL UNIVERSITY STORAGE WORKSHOP

This year's workshop, slated for August 6 in Ithaca, will feature an international, national and statewide cast. Our guest speakers include Dr. Angelo Zanella, who heads the post-harvest research group at Laimburg Agriculture Research Centre in Italy, and who will be presenting their work on DCA and ILOS, as well as their experiences with DPA. Other presentations will include Honeycrisp, and Empire and Gala browning by Jim Mattheis (USDA, Washington), Jennifer DeEll (Ontario Ministry of Agriculture and Food, Canada), as well as the Cornell team of Chris Watkins and David Rosenberger. Industry presentations include DECCO, PACE and Storage Control Systems. See below for program and registration form.
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
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

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Online at
<http://www.scaffolds.entomology.cornell.edu/index.html>