

scaffolds

Update on Pest Management
and Crop Development

F R U I T J O U R N A L

July 15, 2013

VOLUME 22, No. 17

Geneva, NY

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ORCHARD
RADAR
DIGEST



EVENT
ANNOUNCEMENTS

SIGN
UP

CORNELL FRUIT FIELD DAY

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 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.

continued...

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)

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INSECTS

❖ Orchard Radar Digest

GENERAL INFO

❖ Event announcements and registration forms

PEST FOCUS

INSECT TRAP CATCHES

UPCOMING PEST EVENTS

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>

For sponsorship and exhibitor information, contact Debbie Breth at 585-798-4265 or dib1@cornell.edu.

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

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scaffolds FRUIT JOURNAL
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This newsletter available online at:
<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.

NOTE – NEW LOCATION: 146 Morrison Hall, Tower Rd. Cornell University.

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

INSECT TRAP CATCHES (Number/Trap/Day)

| Geneva, NY | | | | Highland, NY | | |
|-----------------------------|------------|-------------|-------------|-----------------------------|------------|-------------|
| | <u>7/8</u> | <u>7/11</u> | <u>7/15</u> | | <u>7/8</u> | <u>7/15</u> |
| Redbanded leafroller | 0.0 | 0.0 | 0.3 | Redbanded leafroller | 2.1 | 2.1 |
| Spotted tentiform leafminer | 11.8 | 10.0 | 34.6 | Spotted tentiform leafminer | 34.2 | 10.5 |
| Oriental fruit moth | 0.5 | 0.8 | 0.6 | Oriental fruit moth | 4.1 | 1.2 |
| San Jose scale | 0.0 | 0.0 | 0.0 | Lesser appleworm | 0.5 | 0.2 |
| Codling moth | 0.2 | 0.0 | 0.0 | Codling moth | 0.1 | 0.6 |
| American plum borer | 0.0 | 0.0 | 0.0 | Obliquebanded leafroller | 0.6 | 0.2 |
| Lesser peachtree borer | 0.2 | 0.0 | 0.0 | San Jose scale | 0.1 | 44.5 |
| Pandemis leafroller | 0.0 | 0.0 | 0.0 | Apple maggot | 0.3* | 0.1 |
| Obliquebanded leafroller | 1.0 | 0.2 | 0.1 | | | |
| Dogwood borer | 2.6 | 7.0 | 5.0 | | | |
| Apple maggot | 0.0 | 0.0 | 0.1* | | | |

* first catch

UPCOMING PEST EVENTS

| | <u>43°F</u> | <u>50°F</u> |
|--|-------------|-------------|
| Current DD accumulations (Geneva 1/1–7/15/13): | 1824 | 1236 |
| (Geneva 1/1–7/15/2012): | 2205 | 1502 |
| (Geneva "Normal"): | 1800 | 1164 |
| (Geneva 1/1–7/22 predicted): | 2072 | 1436 |
| (Highland 1/1–7/15/2013): | 2098 | 1430 |

| <u>Coming Events:</u> | <u>Ranges (Normal ±StDev):</u> | |
|---|--------------------------------|-----------|
| Apple maggot 1st oviposition punctures | 1605–2157 | 1144–1544 |
| American plum borer 2nd flight begins | 1535–2073 | 1014–1378 |
| Comstock mealybug 1st flight subsides | 1818–2132 | 1216–1418 |
| Redbanded leafroller 2nd flight begins | 1252–1580 | 771–1031 |
| Redbanded leafroller 2nd flight peak | 1554–2002 | 996–1344 |
| Lesser appleworm 2nd flight begins | 1418–2002 | 918–1326 |
| STLM 2nd tissue feeders present | 1378–2035 | 913–1182 |
| Spotted tentiform leafminer 2nd flight subsides | 1985–2371 | 1307–1639 |
| Codling moth 2nd flight begins | 1582–2256 | 1033–1513 |
| Obliquebanded leafroller 1st flight subsides | 1594–2028 | 1033–1361 |
| Oriental fruit moth 2nd flight peak | 1471–1989 | 936–1338 |
| San Jose scale 2nd flight begins | 1620–1966 | 1050–1324 |

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.

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