

scaffolds

Update on Pest Management
and Crop Development

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

July 11, 2011

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Geneva, NY

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FLIES
TIME

ORCHARD
RADAR
DIGEST



[M = Marlboro, Ulster Co.;
G = Geneva]

Spotted Tentiform Leafminer

Approximate time 2nd generation sap-feeding mines begin showing: July 8 [G].

Optimum first sample date for 2nd generation STLM sap-feeding mines: July 15 [G].

Roundheaded Appletree Borer

Peak RAB egglaying period roughly: June 25 to July 9 [G].

Peak RAB hatch: July 2 to July 20 [M]/July 10 to 29 [G].

Codling Moth

CM development as of July 11 [M]: 2nd gen adult emergence at 13% and 2nd gen egg hatch at 1%. [G]: 2nd gen adult emergence at 1% and 1st gen egg hatch at 98%.



Lesser Appleworm

2nd LAW flight begins around: July 2 [M]/July 11 [G].

Oriental Fruit Moth

2nd generation – first treatent date, if needed: July 7 [G].

2nd generation – second treatent date, if needed: July 18 [G].

Redbanded Leafroller

2nd RBLR peak catch and approximate start of egg hatch: July 4 [M]/July 13 [G].

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PEST FOCUS

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ODDLY NORMAL?

HEAT OF THE
MOMENT
(Art Agnello,
Entomology, Geneva)

❖❖❖ It's more than a little ironic that in May we couldn't seem to get away from the rain and the cool weather, but now we can't even manage a quick shower. More telling, though, is the fact that this sort of thing happens with regularity. As a result, many of the usual arthropod populations for this time of year have gotten off to a running start; the following is a brief rundown of some items to keep near the top of your "scramble" list, just to help prevent anything from boiling over.

Internal Leps

We are still generally in between the first and second flights for codling moth, while the 2nd oriental fruit moth flight got under way earlier this month. The first brood CM hatch is essentially ending now, so most sites with traditionally heavy pressure from these pests should have already addressed first generation larval control needs. Look for the first captures of the next flight for purposes of timing management sprays; CM usually reappears later in July, which means we should see them within the next 7–10 days, especially if the current hot spell continues.

Obliquebanded Leafroller

According to our developmental models, the first summer brood should be closing in on completing its hatch throughout the state this week. Orchards with historically high OBLR pressure should receive an application of a suitable material during the first half of July, so this week would be an advisable time for such an application against the larvae of this brood if they haven't been attended to. Delegate, Altacor, Belt, Rimon and Proclaim are appropriate choices, particularly in cases where the larvae are a bit larger, and a B.t. product such as Dipel, or else the IGR Intrepid are also options, but these tend to be more effective when applied against the earlier

stages. If you are applying Belt, Altacor or Delegate to control codling moth and oriental fruit moth, they will also be very effective against OBLR at this time. Regardless, we have found that this specific spray is the most critical for preventing fruit-feeding damage at harvest, so put this at the top of your list of priorities if OBLR has distressed you in the past.

Apple Maggot

Trap catches should be starting up in traditional high-pressure sites (the first catch in Geneva was today), although dry soil conditions could hamper the normal progress of adult emergence. Stings and larval tunneling could soon be detected in early and favored varieties such as Ginger Gold and Honeycrisp, particularly in the Hudson Valley. If you aren't monitoring in specific orchards and haven't yet applied a protective spray against AM (and aren't using Delegate or Altacor for OBLR, both of which have some activity on AM), prudence would suggest attention to this pest. Hanging a few volatile-baited sphere traps on the edge of susceptible plantings can provide valuable insight on when (and whether) immigrating flies are posing a threat. Growers on a Delegate or Altacor program for leafrollers/internal leps should get some protection against moderate AM pressure. For those not using OP cover sprays, Assail and Calypso will both provide excellent control of apple maggot as well as internal leps.

continued...

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

Mites, and Other Creatures of Opportunity

European red mite eggs and motile forms are present on the foliage right now, some of them at increasing levels; we have even seen eggs in the calyx areas in some blocks. Under the current sultry temperatures, the period from egg deposit to hatch and multiplication will be a short one. Inspect your leaves using the 5 mite/leaf form on p. 72 of the Recommends, and be aware that two-spotted mite populations increase more quickly than ERM, so be conservative in your interpretations. Kanemite, Portal, and Zeal are options to keep in mind if treatment is needed; Acramite tends to be more effective against TSSM than ERM, and Nexter works better against red mites than it does on twospots, but the main advice is to get out there and look at your foliage. This also will give you an occasion to observe any incidental invasions of either Japanese beetles or potato leafhoppers, both of which have been noted as increasing around the region. For management guidelines, refer back to Scaffolds issues No. 15 (June 27) and No. 11 (May 31), respectively.♦♦♦

PEST FOCUS

Geneva: **Apple maggot** 1st trap catch today, 7/11. **Obliquebanded leafroller** estimated 50% egg hatch in DD base 43°F after biofix - 630 DD; median occurrence of large (IV instars) larvae - 720; 90% egg hatch - 810 DD; 100% egg hatch - 950. Current DD43 since biofix (June 13): 740.

Western NY: **Obliquebanded leafroller** DD43 since biofix (June 7): Sodus, 838; Williamson, 868; Farmington, 856. Albion (June 9 biofix): 810. Appleton North (June 14 biofix): 617.

INSECT TRAP CATCHES (Number/Trap/Day)

Geneva, NY

	<u>6/27</u>	<u>7/5</u>	<u>7/11</u>
Redbanded leafroller	0.1	0.1	–
Spotted tentiform leafminer	16.6	17.0	11.6
San Jose scale	0.0	0.2	–
Oriental fruit moth	0.0	0.1	0.1
Lesser peachtree borer	0.0	0.0	0.0
American plum borer	0.4*	0.1	0.1
Obliquebanded leafroller	0.0	0.4	0.1
Peachtree borer	0.0	0.0	0.0
Apple maggot	0.0	0.0	0.5*

Sodus Center trap catches:

	<u>7/1</u>	<u>7/5</u>	<u>7/8</u>
Oriental fruit moth	0.0	2.5	0.0
Lesser appleworm	2.0	0.0	0.0
Codling moth	2.0	0.0	1.0

Highland, NY

	<u>7/5</u>	<u>7/11</u>
Redbanded leafroller	3.0	1.9
Spotted tentiform leafminer	63.2	32.3
Oriental fruit moth	5.5	4.4
Lesser appleworm	0.1	0.5
Codling moth	1.5	1.1
Obliquebanded leafroller	4.2	1.0
Apple maggot	0.1	0.0

* first catch

UPCOMING PEST EVENTS

	43°F	50°F
Current DD accumulations (Geneva 1/1–7/11/11):	1797	1204
(Geneva 1/1–7/11/2010):	1964	1327
(Geneva "Normal"): (Geneva 1/1–7/18 Predicted):	1669	1070
(Highland 1/1–7/11/11):	2014	1372
	1918	1268
<u>Coming Events:</u>	<u>Ranges (Normal ±StDev):</u>	
Apple maggot 1st oviposition punctures	1605–2157	1144–1544
Codling moth 2nd flight begins	1569–2259	1023–1515
Lesser appleworm 2nd flight begins	1418–2002	918–1326
Oriental fruit moth 2nd flight peak	1455–1995	924–1342
Redbanded leafroller 2nd flight peak	1546–1978	991–1323
Obliquebanded leafroller 1st flight subsides	1612–1952	1048–1302
Spotted tentiform leafminer 2nd flight peak	1368–1798	852–1196
STLM 2nd gen. tissue feeders present	1378–2035	913–1182
Spotted tentiform leafminer 2nd flight subsides	1977–2371	1299–1637
San Jose scale 2nd flight begins	1602–1948	1037–1307
Comstock mealybug 1st flight subsides	1818–2132	1216–1418

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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