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Update on Pest Management and Crop Development

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2011 FRUIT ARTHROPOD PEST REVIEW

(Art Agnello, Entomology, Geneva)

[Box Text: BUGS IN THE SYSTEM]

Back when I was an undergraduate, it was a common complaint that Ithaca didn't have four seasons, but rather, six: summer and winter, and each with a pre- and post-season that lasted about 2 days. While this year didn't exactly go that way, the vagaries of our seasonal changes over the last 12 months makes me wonder what idealized location – surely not NYS – could ever be used to exemplify the neat division of the year into four mathematically equivalent seasons (unless you consider only their astronomical definitions). The increasing frequency of extreme weather events over the years certainly doesn't help things any, either.

This year's spring was, simply stated, a real mess. And, as always when the spring months are cold and wet, insect pests don't do well, while disease pathogens flourish. As we slogged through April and May, first pollination and

then thinning became added challenges for growers. The early season mites and insects were largely in the background, aside from some **plum curculio** activity that almost got the chance to become entrenched until the warm weather kicked in right around Memorial Day, bringing the show to a close by the second week of June.

As is often the case during equivocal springs, **internal leps** got off to a straggled and indecisive start. **Oriental fruit moth** biofix was generally around the 1st of May in the Hudson Valley, and May 10–15 in western NY; codling moth varied from May 16 (Hudson Valley) to either May 23 or 30 in WNY, depending on what sort of mood they happened to be in, apparently. Flight numbers for both species were generally on the moderate side this year. **Obliquebanded leafroller**, tanned and rested, made a strong showing this year and showed some respectable trap numbers during the 2nd and 3rd weeks of June. Weekly fruit inspections indicated very low level damage readings, so evidently most growers were able to handle populations of both classes of these pests with the newer selective insecticides available to them.

July seemed to be interested only in hot and dry; **European red mites** threatened to take off in a few orchards, and **woolly apple aphids** were evident in quite a

few more. **Japanese beetles** made a cursory appearance, but didn't seem destined to make the large splash as they have commonly done during recent years. **Apple maggot** was almost nowhere to be found until we started getting rain again in August, but has been making up for its late appearance with some impressive trap numbers, which continue even as we move into harvest.

In the no-show category this season, we will likely have to include the two long-anticipated and potentially troublesome invasives that have been keeping most of our neighboring states very busy, **Brown Marmorated Stink Bug** and **Spotted Wing Drosophila**. I make this statement advisedly, because each of these are known to be more common later in the season, and it's still too early to declare that they definitely won't be seen before it's all finished. Nonetheless, we had dozens of traps out for these insects throughout the summer (additionally conducting beating and sweep samples for BMSB), with essentially nothing to show for it. While zero is a good and valid piece of data, it's always difficult to trust how genuine it might be, so this part of the story is certainly not finished yet.



THE STICKY DETAILS

(Art Agnello & Dave Kain, Entomology, Geneva)

[Box Text: LAST ROUNDUP]

With this issue, Scaffolds ceases publication for the season; we expect to start up again next March. In February, as usual, we'll send out an email to all current subscribers to verify addresses for next year's mailing list. Our thanks to all of you who have sent comments, suggestions, and articles our way, a practice we hope you'll continue. As a wrap-up, here's our annual summary of the year's pheromone trap results and an Index of Volume 20, 2011 of Scaffolds Fruit Journal.

KEY = GFW - Green Fruitworm; RBLR - Redbanded Leafroller; STLM - Spotted Tentiform Leafminer; OFM - Oriental Fruit Moth (in apples); LAW - Lesser Appleworm; CM - Codling Moth; SJS - San Jose Scale; APB - American Plum Borer (in cherries); LPTB - Lesser Peachtree Borer (in cherries); DWB - Dogwood Borer; PL - Pandemis Leafroller; OBLR - Obliquebanded Leafroller; PTB - Peachtree Borer; AM - Apple Maggot; * - first catch of the generation

Geneva Pest Trapping Results - Avg/Trap/Day

<u>DATE</u>	<u>GFW</u>	<u>RBLR</u>	<u>STLM</u>	<u>OFM</u>	<u>APB</u>	<u>LPTB</u>	<u>SJS</u>
4/11	0.3*						
4/14	0.1						
4/18	0.0						
4/21	0.0	0.0					
4/25	0.0	1.0*					
4/28		2.3	0.0				
5/2		3.8	0.4*				
5/5		10.7	1.2				
5/9		5.0	2.5				3.3*
5/12		2.7	2.8	5.2*			9.7
5/16		7.0	5.3	2.5			1.1
5/19		3.2	8.2	8.8			2.2

5/23	6.5	2.5	4.1	0.3*		0.6
5/26	9.0	1.7	2.7	0.0	0.2*	1.7
5/31	4.3	1.4	0.6	0.0	0.6	5.4
6/2	0.3	0.4	0.1	0.3	0.7	5.0
6/6	0.3	0.0	0.0	0.4	0.0	2.0
6/9	0.2	0.0	0.2	0.5	0.0	1.3
6/13	0.0	0.1	0.3	0.4	0.0	1.5
6/16	0.0	0.2	0.3	0.2	0.0	1.5
6/20	0.0	4.1*	0.1	0.1	0.0	0.5
6/23	0.0	8.5	0.3	0.2	0.0	0.5
6/27	0.1	16.6	0.0	0.4	0.0	0.0
7/5	0.1	17.0	0.1	0.1	0.0	0.2
7/11	—	11.6	0.1	0.1	0.0	—
7/13	0.0	17.8	1.3	0.0	0.0	2.5
7/18	0.6*	3.7	0.0	0.0	0.0	12.4*
7/21	1.5	8.2	0.0	0.2	0.0	9.5
7/25	1.3	8.0	0.0	0.1	0.0	13.8
7/28	0.7	1.8	0.0	0.2		9.0
8/1	0.3	4.8	0.3	0.3		6.9
8/4	0.0	2.8	0.0	0.0		12.2
8/8	0.0	3.9	0.0	0.0		4.3

8/11	0.2	11.2	0.5	0.0	10.2
8/15	0.0	11.6	0.1	0.0	6.1
8/18	0.2	13.2	0.0	0.2	4.8
8/22	0.0	14.1	0.3	0.0	15.3
8/25	0.3	10.5	0.2	0.0	6.7
8/29	0.0	6.5	0.3	0.0	2.1

Geneva Pest Trapping Results - Avg/Trap/Day (continued)

<u>DATE</u>	<u>PL</u>	<u>OBLR</u>	<u>PTB</u>	<u>AM</u>
6/6		0.1*	0.0	
6/9		0.2	0.0	
6/13	0.0	0.1*		
6/16	0.0	0.0	0.3*	
6/20	0.0	0.1	0.0	
6/23	0.0	0.0	0.0	—
6/27	0.3	0.0	0.0	0.0
7/5		0.4	0.0	0.0
7/11		0.1	0.0	0.5*
7/13		0.3		0.0
7/18		0.0		0.2
7/21		0.0		0.2
7/25		0.0		0.5

7/28	0.0	2.7
8/1	0.0	1.0
8/4	0.0	2.0
8/8	0.0	4.5
8/11	0.0	5.7
8/15	0.0	2.5
8/18	0.0	3.5
8/22	0.0	2.3
8/25	0.0	1.7
8/29	0.0	0.9

Hudson Valley (Highland) Pest Trapping Results -

Avg/Trap/Day

<u>DATE</u>	<u>GFW</u>	<u>RBLR</u>	<u>STLM</u>	<u>OFM</u>	<u>LAW</u>	<u>CM</u>	<u>OBLR</u>	<u>AM</u>
4/4	0.3*							
4/11	0.2	0.5*						
4/18	0.3	3.9	0.4*					
4/25	0.0	4.7	10.8					
5/2	0.6	10.6	37.5	5.6*				
5/9	0.1	5.9	30.6	21.6				
5/16		3.2	12.1	13.3	0.0	0.4*		
5/23		1.3	2.4	6.2	0.4*	1.9		

5/31	0.5	2.5	4.4	0.3	6.1		
6/6	0.0	10.6	1.4	0.1	3.9	0.2*	
6/13	0.0	49.0	0.5	1.6	7.1	13.3	
6/20	1.1	42.8	0.8	0.2	2.2	6.4	0.0
6/27	3.0	68.5	3.2	0.2	1.9	6.9	0.1*
7/5	3.0	63.2	5.5	0.1	1.5	4.2	0.1
7/11	1.9	32.3	4.4	0.5	1.1	1.0	0.0
7/18	0.9	24.4	3.1	0.6	1.9	0.5	0.0
7/25	0.6	39.0	3.8	1.6	2.7	0.2	0.4
8/1	0.1	19.5	0.4	3.0	1.3	0.1	0.6
8/8	0.9	30.1	1.1	3.2	2.7	0.2	2.1
8/15	1.3	25.2	2.5	0.6	2.3	0.2	1.7
8/29	4.6	10.9	2.9	1.5	1.5	0.5	0.9

SCAFFOLDS Fruit Journal

Index, Volume 20, 2011

No. 1, March 21

GENERAL INFO

New year of Scaffolds intro

CHEM NEWS

Product registration update

INSECTS

Brown marmorated stinkbug

No. 2, March 28

INSECTS

Prebloom horticultural oil

GENERAL INFO

New version of TracApple coming

DISEASES

Spring copper strategy

No. 3, April 4

CHEM NEWS

More pesticide updates

DISEASES

Apple scab and mildew control

INSECTS

Pear psylla management

No. 4, April 11

INSECTS

Prebloom pest considerations

CHEM NEWS

Errata – Stinkbug control materials

DISEASES

Apple scab post-infection control

GENERAL INFO

NYSIPM news

No. 5, April 18

INSECTS

San Jose scale

No. 6, April 25

INSECTS

Pink pests

No. 7, May 2

INSECTS

Using the NY Apple IPM website

No. 8, May 9

INSECTS

Orchard Radar Digest

Petal fall preview

GENERAL INFO

Bee pollination tips

CHEM NEWS

Lambda Cy 2(ee)

DISEASES

Adjusting scab fungicide rates

No. 9, May 16

INSECTS

Orchard Radar Digest

Moth pests

DISEASES

New option for Fabraea leaf spot

No. 10, May 24

INSECTS

Orchard Radar Digest

Petal fall pest roundup

DISEASES

Pear blast

No. 11, May 31

INSECTS

Orchard Radar Digest

Clearwing moths in peaches

Potato leafhopper

FIELD NOTES

Hudson Valley insects

No. 12, June 6

INSECTS

Orchard Radar Digest

Woolly apple aphid

San Jose scale

Comstock mealybug

No. 13, June 13

INSECTS

Orchard Radar Digest

June insect roundup

GENERAL INFO

Degree days and NEWA

No. 14, June 20

INSECTS

Orchard Radar Digest

Apple maggot

CHEM NEWS

Thionex label changes

No. 15, June 27

INSECTS

Orchard Radar Digest

Summer insects

No. 16, July 5

INSECTS

Orchard Radar Digest

Brown marmorated stinkbug survey

Summer insects

No. 17, July 11

INSECTS

Orchard Radar Digest

Midsummer insects

No. 18, July 18

INSECTS

Orchard Radar Digest

More midsummer pests

No. 19, July 25

INSECTS

Orchard Radar Digest

Dock sawfly

Late season mite management

GENERAL INFO

Events reminders

No. 20, August 1

INSECTS

Orchard Radar Digest

Late summer insects

GENERAL INFO

Events reminders

No. 21, August 8

INSECTS

Orchard Radar Digest

Brown marmorated stinkbug survey update

DISEASES

Critical apple storage sanitizing updates

GENERAL INFO

Events reminders

No. 22, August 15

INSECTS

Orchard Radar Digest

Apple borers

Late season pests

DISEASES

Fungicides for apple storage decays

GENERAL INFO

Events reminders

No. 23, August 22

INSECTS

Orchard Radar Digest

Late season insect pests

DISEASES

Summer disease threat

GENERAL INFO

Events reminders

No. 24, August 29

INSECTS

Comparison of Pest Events 2011 to the calculated “Norm”

GENERAL INFO

Events reminder

No. 25, September 7

INSECTS

2011 Tree fruit arthropod pest review

2011 Insect trap catch summary

GENERAL INFO

Index of Scaffolds Volume 20, 2011

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