

SCAFFOLDS Fruit Journal, Geneva, NY

Volume 22, No. 24

Update on Pest Management and Crop Development

September 3, 2013

2013 FRUIT ARTHROPOD PEST REVIEW

(Art Agnello, Entomology, Geneva)

[Box Text: WHAT HAPPENED?]

Most people in the fruit business were frankly a little apprehensive about what to expect from this season. After 2012, there was a sense that anything was possible, particularly scenarios that had a greater resemblance to some of the southeastern states than to the good old (if non-standard) New York summers of legend and common lore. Even as the spring proceeded to unwind in its slow, gradual, and even boring sequence of non-dramatic crop & pest development stages, there remained a tendency to glance over one's shoulder to be sure nothing was sneaking up on us. We had all heard the worries over 'light' control programs last year, pests that had had extra flights, and then cold-but-not-epic winter temperatures, all of which could have presaged a monumental insect resurgence this year. Nonetheless, the prebloom period was cool and not too rainy, bloom was abundant, pollination weather generally acceptable, and fruit set proceeded with

relatively few frost or hail events being reported. Early season pests seemed to have slept in, and we somehow reverted to business as usual, just another "normal" NY growing season.

Which is to say that the version of normal that we experienced this year was of the a-bit-too-much-rain and not-enough-heat variety, so that real summer temperatures didn't occur until July, and then retreated for the next 6 or 8 weeks. The insect pests, fortunately, did not explode, although they weren't actually absent. We hardly saw any **mites**, or **pear psylla**, or **curculios**; however, **San Jose scale** infestations were a common sight, as well as **potato leafhoppers**, **woolly apple aphid**, and of course the lep brigade. **Codling moths** and **oriental fruit moths** did not overrun the countryside, but they were (are) out there in all the usual spots, the same as leafrollers. **Apple maggot** took its time in emerging, but seems to still have a number of curtain calls to attend to before it's finished.

As noted previously, more time and attention seems to have been directed this year at our two invasive species, a phenomenon that should probably be taken as a sign of things to come. **Brown marmorated stink bug** finally began showing up in traps in western NY this year, albeit in low, sporadic numbers, although the new-this-year availability

of the true pheromone lures could have played a part. More eastern NY sites are experiencing fruit damage this year, including further north into Columbia Co., so we expect this trend to continue going forward. **Spotted wing drosophila** has become a more universal, and urgent, concern, although mostly for berry growers; our cherry and peach plantings seem to have escaped any notable damage this time, but next season could be different if the fly's first occurrence date continues to advance each year. Overall, something old and something new...

FLIGHT WATCH LIST

(Art Agnello & Dave Kain, Entomology, Geneva)

[Box Text: THINGS THAT FLY]

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 22, 2013 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

DATE	GFW	RBLR	STLM	OFM	APB	SJS	CM	LPTB
4/4	0.2*							
4/8	0.3							
4/15	0.4							
4/18	0.0							
4/22	0.3							
4/25	0.0	0.7*						
4/29	0.1	7.43	0.5*					
5/2	0.1	17.8	8.7					
5/6	0.0	9.6	39.0	5.0*				
5/9	0.0	11.3	29.0	2.2				
5/13	0.0	5.6	4.6	0.1				
5/16	0.2	4.2	4.3	0.0	0.8*		0.3*	
5/20	0.0	2.4	2.6	0.8	0.4	0.3		0.1*

5/23	–	3.5	2.8	0.3	0.2	0.7*	2.3	1.2
5/28		0.1	0.3	0.3	0.0	0.5	0.9	0.4
5/30		0.3	0.0	1.0	0.5	1.3	1.0	0.0

DATE	RBLR	STLM	OFM	APB	SJS	CM	LPTB	DWB
6/3	0.0	0.0	0.2	0.7	0.3	2.7	1.0	2.2*
6/10	0.0	0.0	0.0	0.0	0.1	0.3	0.6	1.0
6/17	0.0	0.2	0.3	0.1	0.0	0.3	0.5	1.4
6/20	0.2	1.0	0.0	0.0	0.0	0.0	0.2	0.2
6/24	0.0	5.5*	0.1	0.1	0.0	0.0	0.3	2.3
7/1	0.3	31.2	0.3	0.2	0.0	0.8	0.3	7.0
7/8	0.0	11.8	0.5	0.0	0.0	0.2	0.2	2.6
7/11	0.0	10.0	0.8	0.0	0.0	0.0	0.0	7.0
7/15	0.3	34.6	0.6	0.0	0.0	0.0	0.0	6.7
7/22	0.0	10.0	0.2	0.0	20.1*	0.8	0.1	
7/25	0.3	4.5	0.0	0.2	44.8	0.0	0.0	1.2
7/29	0.0	4.1	0.0	0.5*	57.5	0.0	0.1	0.8
8/1	0.0	6.0	0.3	0.5	198.3	1.3*	0.0	
8/5	0.0	2.5	0.5	0.3	172.5	1.5	0.0	
8/8	0.0	10.2	0.5	0.0	30.0	0.0	0.0	0.5
8/12	0.1	21.4	1.5	0.4	14.1	0.3	0.3	0.4

8/15	0.0	19.8	2.0	0.0	13.3	0.5	0.0	0.2
8/19	0.9*	28.6	1.0	0.1	15.1	0.1	0.0	–
8/22	1.0	42.2	2.0	0.2	38.3	0.2		3.0

DATE	PTB	PL	OBLR	AM
6/3		0.3*		
6/10		0.3	0.2*	
6/17		1.4	1.8	
6/20		0.2	0.0	
6/24	0.8*	0.8	1.3	
7/1	0.5	0.8	0.5	
7/8	0.7	0.0	1.0	
7/11	0.7		0.2	
7/15	0.7		0.2	0.2*
7/22	0.2		0.0	0.1
7/25	0.3		0.0	0.3
7/29	0.1		0.0	0.1
8/1	0.0		0.0	0.2
8/5	0.0		0.1	1.0
8/8	0.0		0.0	0.0
8/12	0.0		0.1	1.3

8/15	0.0	0.3	1.5
8/19	0.1	0.1	1.1
8/22	0.0	0.2	0.2

HUDSON VALLEY INSECT KEY = GFW - Green Fruitworm; RBLR - Redbanded Leafroller; STLM - Spotted Tentiform Leafminer; OFM - Oriental Fruit Moth (in apples); LAW - Lesser Appleworm; CM - Codling Moth; TABM - Tufted Apple Budmoth; VLR - Variegated Leafroller; SJS - San Jose Scale; OBLR - Obliquebanded Leafroller; FTLR - Fruittree Leafroller; SPAR - Sparganothis Fruitworm; AM - Apple Maggot; * - first catch of the generation.

Hudson Valley (Highland) Pest Trapping Results -
Avg/Trap/Day

DATE	GFW	RBLR	STLM	OFM	LAW	CM	SJS	OBLR	AM
4/1	1.6*	0.5*	1.3*						
4/8	2.1	0.1	0.0						
4/15	1.2	2.3	0.0	0.1*					
4/22	1.4	4.1	0.6	0.4					
4/29	0.1	7.4	0.5	0.0					
5/2	0.2	17.8	17.3	0.0					
5/6	0.0	9.6	39.0	5.0					
5/13	0.0	5.4	15.1	1.3	3.1*				
5/20		1.8	8.0	1.4	0.9	1.7*			

5/28	1.1	2.0	3.8	—	2.1			
6/3	0.0	0.3	1.2	0.1	1.6		0.6*	
6/10	0.1	6.2	0.4	0.7	0.2		0.6	
6/17	0.0	19.7	0.2	0.6	0.9		0.4	
6/24	2.4	31.3	1.0	0.2	0.3	0.6*	2.7	
7/1	4.6	25.3	0.2	0.4	0.1	0.0	2.7	
7/8	2.1	34.2	4.1	0.5	0.1	0.1	0.6	0.3*
7/15	2.1	10.5	1.2	0.2	0.6	44.5	0.2	0.1
7/22	0.6	28.8	1.3	0.9	0.3	148	0.2	0.5
7/29	0.2	12.1	0.0	0.4	1.3	16.6	0.2	0.2
8/5	0.4	24.0	0.7	0.4	1.3	1.0	0.2	0.1
8/12	0.7	21.6	2.6	1.5	2.7	0.0	0.0	0.2
8/19	2.4	10.9	2.1	1.3	0.5	1.6	0.0	0.2

SCAFFOLDS Fruit Journal

Index, Volume 22, 2013

No. 1, March 25

GENERAL INFO

New year of Scaffolds Intro

INSECTS

Green fruitworm

DISEASES

Copper sprays in tree fruits

Early season fungicides for apples

CHEM NEWS

Product registration update

No. 2, April 1

HORTICULTURE

Predicting apple green tip in 2013

GENERAL INFO

Precision apple orchard management & upcoming educational opportunities

No. 3, April 8

DISEASES

Fungicide resistance complicates mildew control programs for apples

INSECTS

Early season oil strategies

Making sense of insecticide premixes

No. 4, April 15

INSECTS

Degree days and NEWA

CHEM NEWS

Special registrations

No. 5, April 22

INSECTS

Pre-bloom pear psylla management

No. 6, April 29

INSECTS

Pink pests of concern

Tarnished plant bug management

HORTICULTURE

Taking care of apple plantings

Peach tree pruning

No. 7, May 6

INSECTS

Predicting pest events using NEWA

Internal Lepidoptera mating disruption

DISEASES

Blossom sprays for fire blight

No. 8, May 13

INSECTS

Petal fall pests

Hudson Valley insect management update

DISEASES

Fontelis fungicide registered in NY

GENERAL INFO

Event announcements

No. 9, May 20

INSECTS

Upcoming early summer pests

GENERAL INFO

Event announcements

No. 10, May 28

INSECTS

Orchard Radar Digest

Clearwing moth pests of stone fruit

HORTICULTURE

Apple irrigation model

GENERAL INFO

Event announcements

No. 11, June 3

INSECTS

Orchard Radar Digest

Woolly apple aphid

DISEASES

Controlling Fabraea leaf spot on pears

GENERAL INFO

Event announcements

No. 12, June 10

INSECTS

Orchard Radar Digest

Potato leafhopper

17-year cicada in the Hudson Valley

DISEASES

The Captan conundrum

GENERAL INFO

Event announcements

No. 13, June 17

INSECTS

Orchard Radar Digest

Apple maggot

Current insect management in the Hudson Valley

GENERAL INFO

Event announcements

No. 14, June 24

INSECTS

Orchard Radar Digest

Early summer insects

Current insect management in the Hudson Valley

GENERAL INFO

Event announcements

No. 15, July 1

INSECTS

Orchard Radar Digest

European red mite

Hudson Valley insect management

Cicada-Fest in the Hudson Valley

GENERAL INFO

Event announcements

No. 16, July 8

INSECTS

Orchard Radar Digest

Summer insects

GENERAL INFO

Event announcements

No. 17, July 15

INSECTS

Orchard Radar Digest

GENERAL INFO

Event announcements and registration forms

No. 18, July 22

INSECTS

Orchard Radar Digest

Spotted wing drosophila update

Dock sawfly

Hudson Valley pest update

CHEM NEWS

Bifenthrin Sec. 18 for Hudson Valley

GENERAL INFO

Event announcements and registration forms

No. 19, July 29

INSECTS

Orchard Radar Digest

Spotted wing drosophila update

Midsummer pests

GENERAL INFO

Event announcements and registration forms

No. 20, August 5

INSECTS

Orchard Radar Digest

Spotted wing drosophila update

Hudson Valley pest update

GENERAL INFO

Event announcements

No. 21, August 12

INSECTS

Orchard Radar Digest

Spotted wing drosophila update

Dogwood borer

Hudson Valley pest update

GENERAL INFO

Event announcements

No. 22, August 19

INSECTS

Orchard Radar Digest

End of season pest concerns

GENERAL INFO

Event announcements

No. 23, August 26

INSECTS

Comparison of pest events 2013 to the calculated “Norm”

Orchard Radar Digest

GENERAL INFO

Event announcements

No. 24, September 3

INSECTS

2013 Tree fruit arthropod pest review

2013 Insect trap catch summary

GENERAL INFO

Index of Scaffolds Volume 22, 2013

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.

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 p.m. Monday to:

Scaffolds Fruit Journal

Editors: A. Agnello, D. Kain

Dept. of Entomology, NYSAES

630 W. North St.

Geneva, NY 14456-1371

Phone: 315-787-2341 FAX: 315-787-2326

E-mail: ama4@cornell.edu

Online at

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