

SCAFFOLDS Fruit Journal, Geneva, NY

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Update on Pest Management and Crop Development

September 2, 2014

2014 FRUIT ARTHROPOD PEST REVIEW

(Art Agnello, Entomology, Geneva)

[Box Text: BIPOLAR VORTEX?]

This year was another of those seasons that seemed to have a bipolar personality, as even now it's continuing to demonstrate an inability to settle into a single trend for very long. We started out waiting quite an extended time for spring weather to actually arrive, as recurring cold temperatures following our 'respectable' NY winter created much uncertainty about when the season was really on track to start, and late freezes took their toll on many peach and other stone fruit plantings, as well as selected apple varieties. Some warm spells in late June and late July never seemed to take hold for long, and the precipitation pattern was a patchwork of severe downpours and soakers offset by dry, sun-baked stretches. This week, we appear to be in for a reprise of sweltering summer conditions, even as everyone has started putting themselves into a 'fall is coming' state of mind. On the plus side, the cooler night temps helped fruit color, and of course the abundant rain

contributed to good size, so overall, we are looking at a pretty good apple crop from this harvest.

Once again, insect pests were not too rampant, although a number of them needed some extra attention, as is common. The rainy early season help to keep down **mite** numbers until about midsummer, when some blocks ran into population blow-ups. For another year, **San Jose scale** infestations were a common concern, along with **woolly apple aphid**, both of which are notable for being old nemeses with impressive staying power. **Codling moth** and **oriental fruit moth** continue to be important drivers of many insect management programs, particularly in western NY, and **apple maggot** keeps rolling along with some very high trap numbers. Contrary to our expectations, **Brown marmorated stink bug** had a delayed year in the Hudson Valley, and was nearly absent altogether in the rest of the state. **Spotted wing drosophila** continues as a more universal, and urgent, concern, still mostly for berry growers; our cherry and peach plantings benefitted from this species' late arrival this year. More worrisome is **black stem borer**, the ambrosia beetle that has been found as the cause of tree decline and death in numerous plantings around the state, and for which we have precious little information so far about appropriate control measures.

Doubtless this will be the topic of much discussion during the winter months.

STICKING TO IT

(Art Agnello & Dave Kain, Entomology, Geneva)

[Box Text: INSEX]

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 23, 2014 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	LAW
4/10	0.0								
4/14	1.4*								
4/18	0.5								
4/21	1.3	0.0							
4/24	0.2	0.7*							
4/28	0.3	0.1							
5/1	0.0	0.8							
5/5	0.1	3.4	0.0	0.0					
5/8	0.0	2.5	3.7*	0.2*					
5/12	0.1	6.5	26.0	15.5					
5/19	0.0	5.1	23.6	4.1			0.0		
5/22	0.0	9.2	35.8	10.8	0.0	0.0	0.7*	0.0	0.0
5/27	0.0	4.7	7.4	6.0	0.0	1.1*	2.23	0.9*	0.1*
5/29	0.0	1.5	4.7	3.8	0.3*	1.5	1.7	2.2	0.0
6/2	-	0.2	1.3	4.3	0.7	0.3	2.7	1.0	2.2*

DATE	RBLR	STLM	OFM	APB	SJS	CM	LPTB	LAW
6/5	0.0	0.7	0.8	0.3	0.3	2.2	3.0	1.0
6/9	0.0	0.0	0.8	0.3	0.0	1.6	1.6	1.9
6/13	0.0	0.1	0.9	0.0	0.0	2.6	0.0	0.4
6/16	0.0	0.8	0.2	0.0	0.3	0.8	0.2	1.3
6/19	0.2	4.7*	0.2	0.0	0.0	0.0	0.7	1.5
6/23	0.0	15.0	0.1	0.0	0.3	0.3	0.0	1.0
6/26	0.5	14.0	2.2*	0.0	0.0	0.2	0.0	1.3

6/30	0.5*	27.0	3.3	0.1	0.0	0.5	0.6	0.9
7/3	2.7	67.7	1.0	0.0	0.0	0.7	0.2	0.7
7/7	1.9	20.0	1.1	0.1	0.0	0.6	0.5	0.4
7/10	3.7	45.7	2.2	0.0	0.0	0.0	0.5	0.0
7/14	1.4	52.3	1.4	0.0	1.5*	0.0	0.3	0.5
7/16	1.3	18.3	0.8	0.0	7.5	0.0	0.0	0.0
7/21	0.0	23.8	0.2	0.4*	192	0.0	0.2	0.2
7/24	0.7	12.0	0.3	0.0	563	0.0	0.0	0.1
7/31	0.2	5.4	0.1	0.3	436	0.1	0.1	0.1
8/4	0.0	6.6	0.0	0.0	603	1.1*	0.1	0.0
8/7	0.0	7.2	0.3*	0.5	200	1.0	0.2	0.0
8/11	0.0	14.6*	0.1	0.3	200	1.5	0.1	0.1
8/14	0.0	6.7	0.3	0.0	75.0	0.5	0.5	0.0
8/18	0.3*	8.6	3.0	0.0	33.8	0.6	0.1	0.1
8/21	0.2	7.0	2.0	0.0	39.2	1.5	0.8	0.3
8/25	2.0	11.4	1.1	0.0	41.9	2.1	0.3	0.6

DATE	PL	OBLR	DWB	PTB	AM
6/5	1.0*	0.0			
6/9	1.9	0.1*	1.0*		
6/13	4.5	0.5	0.9	0.0	
6/16	5.2	0.8	0.0	0.0	
6/19	5.0	0.3	0.7	0.0	
6/23	0.9	0.8	0.1	0.1*	
6/26	7.7	0.8	4.8	0.5	0.0
6/30	2.6	3.0	5.4	0.9	0.3*

7/3	0.7	0.7	14.7	0.7	0.5
7/7	0.6	2.8	15.0	1.6	0.3
7/10	0.0	0.3	20.2	0.2	—
7/14	0.1	0.1	2.3	0.6	0.6
7/16	0.0	0.8	5.0	1.8	2.5
7/21	0.0	0.0	3.0	0.9	2.5
7/24		0.0	0.5	0.5	4.8
7/31		0.0	0.2	0.1	6.3
8/4		0.1	0.3	0.1	12.9
8/7		0.0	0.0	0.3	5.0
8/11		0.5*	0.0	0.1	4.8
8/14		0.3	0.0	0.3	4.2
8/18		1.1	0.0	0.4	5.3
8/21		0.3	0.0	0.5	4.8
8/25		0.3	0.5	0.0	5.9

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; OBLR - Obliquebanded Leafroller; SPAR - Sparganothis Fruitworm; AM - Apple Maggot; BMSB - Brown Marmorated Stink Bug; * - first catch of the generation.

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

Day								
DATE	GFW	RBLR	STLM	OFM	LAW	CM	VLR	TABM
4/4	0.6*	0.0						
4/7	0.4	0.0						
4/15	1.2	2.6*	0.0	0.0				
4/28	0.5	16.1	4.5*	0.0				
5/5	0.1	18.9	12.3	1.1*				
5/12	0.0	15.8	30.0	12.6	1.0*	0.0		
5/19	0.0	5.6	10.2	3.9	0.8	1.0*	0.2*	
5/27	0.0	2.9	5.6	7.8	1.6	1.0	0.2	0.1*
6/2	0.0	0.6	1.8	4.1	1.3	2.8	1.1	1.2
6/9		0.0	0.9	1.9	0.3	3.5	3.9	3.2
6/16		0.0	14.6*	1.5	0.4	1.4	2.5	1.8
6/23		0.6*	53.0	2.5*	1.3	3.2	1.2	4.7
6/30		5.4	50.2	2.7	1.4	1.6	0.6	3.7
7/7		3.8	62.9	4.1	0.5	0.4	0.3	3.1
7/14		2.3	48.9	2.8	0.2	1.1*	0.3	0.8
7/21		0.4	11.1	4.1	0.5	2.5	0.1	0.1
7/28		2.1	26.9*	2.6	0.8	10.4	0.4	0.1
8/4		0.0	52.5	1.6	0.0	5.6	0.1	0.0
8/11		0.9	50.2	2.2	0.3	2.2	0.6	0.3
8/18		0.7	39.2	2.1	2.4	2.4	0.6	0.8
8/25		2.7	41.9	1.1	4.4	0.7	1.1	1.1

DATE	SPAR	OBLR	AM	BMSB
------	------	------	----	------

4/4				
4/7				
4/15				0.0
4/28				0.0
5/5				0.0
5/12				1.0*
5/19				0.0
5/27				0.1
6/2	0.0			0.1
6/9	0.1*			0.4
6/16	0.9	1.7*		0.4
6/23	0.1	5.9		0.1
6/30	0.0	4.5		1.0
7/7	0.0	2.9	0.04*	1.7
7/14	0.1	0.4	0.1	1.3
7/21	0.0	0.0	0.4	1.6
7/28	0.0	2.1*	0.5	5.7
8/4	0.0	0.0	0.0	5.7
8/11	0.0	0.6	0.2	1.4
8/18	0.0	0.6	0.1	16.7
8/25	0.1	0.1	0.0	19.3

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