scaffolds

Update on Pest Management and Crop Development

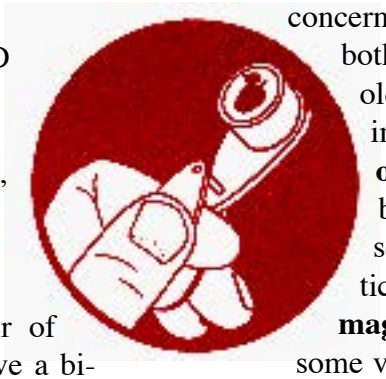
F R U I T J O U R N A L

September 2, 2014 VOLUME 23, No. 24 Geneva, NY

INSECTS

BIPOLAR VORTEX?

2014 FRUIT ARTHROPOD PEST REVIEW (Art Agnello, Entomology, Geneva)



❖❖ This year was another of those seasons that seemed to have a bi-polar 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.

❖❖

IN THIS ISSUE…

2014 INSEX

STICKING TO IT
(Art Agnello & Dave Kain, Entomology, Geneva)

❖❖ 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 - Red-banded 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. ❖❖

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

Geneva Pest Trapping Results - Avg/Trap/Day

DATE	GFW	RBLR	STLM	OFM	APB	SJS	CM	LPTB	LAW	PL
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*	0.0

DATE	RBLR	STLM	OFM	APB	SJS	CM	LPTB	LAW	PL	OBLR	DWB	PTB	AM
6/5	0.0	0.7	0.8	0.3	0.3	2.2	3.0	1.0	1.0*	0.0			
6/9	0.0	0.0	0.8	0.3	0.0	1.6	1.6	1.9	1.9	0.1*	1.0*		
6/13	0.0	0.1	0.9	0.0	0.0	2.6	0.0	0.4	4.5	0.5	0.9	0.0	
6/16	0.0	0.8	0.2	0.0	0.3	0.8	0.2	1.3	5.2	0.8	0.0	0.0	
6/19	0.2	4.7*	0.2	0.0	0.0	0.0	0.7	1.5	5.0	0.3	0.7	0.0	
6/23	0.0	15.0	0.1	0.0	0.3	0.3	0.0	1.0	0.9	0.8	0.1	0.1*	
6/26	0.5	14.0	2.2*	0.0	0.0	0.2	0.0	1.3	7.7	0.8	4.8	0.5	0.0
6/30	0.5*	27.0	3.3	0.1	0.0	0.5	0.6	0.9	2.6	3.0	5.4	0.9	0.3*
7/3	2.7	67.7	1.0	0.0	0.0	0.7	0.2	0.7	0.7	0.7	14.7	0.7	0.5
7/7	1.9	20.0	1.1	0.1	0.0	0.6	0.5	0.4	0.6	2.8	15.0	1.6	0.3
7/10	3.7	45.7	2.2	0.0	0.0	0.0	0.5	0.0	0.0	0.3	20.2	0.2	–
7/14	1.4	52.3	1.4	0.0	1.5*	0.0	0.3	0.5	0.1	0.1	2.3	0.6	0.6
7/16	1.3	18.3	0.8	0.0	7.5	0.0	0.0	0.0	0.0	0.8	5.0	1.8	2.5
7/21	0.0	23.8	0.2	0.4*	192	0.0	0.2	0.2	0.0	0.0	3.0	0.9	2.5
7/24	0.7	12.0	0.3	0.0	563	0.0	0.0	0.1		0.0	0.5	0.5	4.8
7/31	0.2	5.4	0.1	0.3	436	0.1	0.1	0.1		0.0	0.2	0.1	6.3
8/4	0.0	6.6	0.0	0.0	603	1.1*	0.1	0.0		0.1	0.3	0.1	12.9
8/7	0.0	7.2	0.3*	0.5	200	1.0	0.2	0.0		0.0	0.0	0.3	5.0
8/11	0.0	14.6*	0.1	0.3	200	1.5	0.1	0.1		0.5*	0.0	0.1	4.8
8/14	0.0	6.7	0.3	0.0	75.0	0.5	0.5	0.0		0.3	0.0	0.3	4.2
8/18	0.3*	8.6	3.0	0.0	33.8	0.6	0.1	0.1		1.1	0.0	0.4	5.3
8/21	0.2	7.0	2.0	0.0	39.2	1.5	0.8	0.3		0.3	0.0	0.5	4.8
8/25	2.0	11.4	1.1	0.0	41.9	2.1	0.3	0.6		0.3	0.5	0.0	5.9

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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	SPAR	OBLR	AM	BMSB
4/4	0.6*	0.0										
4/7	0.4	0.0										
4/15	1.2	2.6*	0.0	0.0								0.0
4/28	0.5	16.1	4.5*	0.0								0.0
5/5	0.1	18.9	12.3	1.1*								0.0
5/12	0.0	15.8	30.0	12.6	1.0*	0.0						1.0*
5/19	0.0	5.6	10.2	3.9	0.8	1.0*	0.2*					0.0
5/27	0.0	2.9	5.6	7.8	1.6	1.0	0.2	0.1*				0.1
6/2	0.0	0.6	1.8	4.1	1.3	2.8	1.1	1.2	0.0			0.1
6/9		0.0	0.9	1.9	0.3	3.5	3.9	3.2	0.1*			0.4
6/16		0.0	14.6*	1.5	0.4	1.4	2.5	1.8	0.9	1.7*		0.4
6/23		0.6*	53.0	2.5*	1.3	3.2	1.2	4.7	0.1	5.9		0.1
6/30		5.4	50.2	2.7	1.4	1.6	0.6	3.7	0.0	4.5		1.0
7/7		3.8	62.9	4.1	0.5	0.4	0.3	3.1	0.0	2.9	0.04*	1.7
7/14		2.3	48.9	2.8	0.2	1.1*	0.3	0.8	0.1	0.4	0.1	1.3
7/21		0.4	11.1	4.1	0.5	2.5	0.1	0.1	0.0	0.0	0.4	1.6
7/28		2.1	26.9*	2.6	0.8	10.4	0.4	0.1	0.0	2.1*	0.5	5.7
8/4		0.0	52.5	1.6	0.0	5.6	0.1	0.0	0.0	0.0	0.0	5.7
8/11		0.9	50.2	2.2	0.3	2.2	0.6	0.3	0.0	0.6	0.2	1.4
8/18		0.7	39.2	2.1	2.4	2.4	0.6	0.8	0.0	0.6	0.1	16.7
8/25		2,7	41.9	1.1	4.4	0.7	1.1	1.1	0.1	0.1	0.0	19.3

GENERAL INFO

SCAFFOLDS Fruit Journal
Index, Volume 23, 2014

No. 1, March 24
GENERAL INFO
❖ New year of Scaffolds Intro
INSECTS
❖ San Jose scale
DISEASES
❖ Fungicide considerations for tree fruits in 2014
CHEM NEWS
❖ Product registration update

No. 2, March 31
INSECTS
❖ Effects of a cold winter on insects
❖ 17-year cicada
HORTICULTURE
❖ Cold-hardiness of Geneva rootstocks
ERRATUM
❖ Correction to last week's CHEM NEWS

No. 3, April 7
HORTICULTURE
❖ Predicting green tip in 2014
INSECTS
❖ Early pear psylla management
GENERAL INFO
❖ Harvey Reissig Retirement Party

No. 4, April 14
DISEASES
❖ Apple scab warning for the Hudson Valley
INSECTS
❖ Selecting/Using insecticide premixes
CHEM NEWS
❖ Merivon registered
GENERAL INFO
❖ Harvey Reissig Retirement Party

No. 5, April 21
HORTICULTURE
❖ Good orchard soil and recognizing poor drainage
INSECTS
❖ Pear psylla management
GENERAL INFO
❖ Hudson Valley blogs
❖ Harvey Reissig Retirement Party

No. 6, April 28
HORTICULTURE
❖ Getting the most out of NY1 and NY2
INSECTS
❖ Brown marmorated stinkbug survey
FIELD NOTES
❖ Hudson Valley insect management at togh cluster
GENERAL INFO
❖ Harvey Reissig Retirement Party

No. 7, May 5
INSECTS
❖ Orchard Radar Digest
❖ Pink pests
❖ Brown marmorated stinkbug survey
HORTICULTURE
❖ Fungicides and bees

No. 8, May 12
INSECTS
❖ Using the NEWA Apple Insect Models website
❖ Brown marmorated stinkbug survey
❖ Internel lep mating disruption

No. 9, May 19
INSECTS
❖ Orchard Radar Digest
❖ Petal fall pests
CHEM NEWS
❖ Asana XL 2(ee) for Spotted Wing Drosophila, Madex HP labelled in NY

continued...

No. 10, May 27
INSECTS
❖ Orchard Radar Digest
❖ Early summer pests
❖ Stinkbug survey closing soon
❖ Hudson Valley insect pest modelling

No. 11, June 2
INSECTS
❖ Orchard Radar Digest
❖ Clearwing borers of stone fruits
❖ Stinkbug survey closing soon

No. 12, June 9
INSECTS
❖ Orchard Radar Digest
❖ Woolly apple aphid
❖ Stinkbug survey closing soon

No. 13, June 16
INSECTS
❖ Orchard Radar Digest
❖ Leafhoppers
❖ European red mite management
❖ Stinkbug survey closing soon
DISEASES
❖ Dealing with fire blight in June

No. 14, June 23
INSECTS
❖ Orchard Radar Digest
❖ Summer insects
❖ Stinkbug survey closing soon Valley
DISEASES
❖ Controlling summer diseases on apple

No. 15, June 30
INSECTS
❖ Orchard Radar Digest
❖ Apple maggot
DISEASES
❖ Summer fungicides, Part II; Bitter rot
GENERAL INFO
❖ Western NY summer fruit tour

No. 16, July 7
INSECTS
❖ Orchard Radar Digest
❖ Midsummer insects
CHEM NEWS
❖ Bifenthrin Sec. 18 for Brown marmorated stinkbug
GENERAL INFO
❖ Western NY summer fruit tour

No. 17, July 14
INSECTS
❖ Orchard Radar Digest
v Black stem borer
GENERAL INFO
❖ Western NY and Wayne Co. summer fruit tours

No. 18, July 21
INSECTS
❖ Orchard Radar Digest
❖ Dock sawfly
❖ Spotted wing Drosophila update
GENERAL INFO
❖ Western NY and Wayne Co. summer fruit tours

No. 19, July 28
INSECTS
❖ Orchard Radar Digest
❖ Midsummer pests
GENERAL INFO
❖ Wayne Co. summer fruit tour
DISEASES
❖ Sanitation for postharvest diseases

No. 20, August 4
INSECTS
❖ Orchard Radar Digest
DISEASES
❖ LAte-season disease management and postharvest diseases
GENERAL INFO
❖ Wayne Co. summer fruit tour
❖ Cornell Fruit Pest Control Field Day

continued...

No. 21, August 11
INSECTS
❖ Orchard Radar Digest
❖ Apple maggot status in western NY
❖ Borer control considerations
DISEASES
❖ Postharvest fungicide applications for apples?
GENERAL INFO
❖ Cornell Fruit Pest Control Field Day

No. 22, August 18
INSECTS
❖ Late season pest concerns
CHEM NEWS
❖ Envidor miticide labelled in NY
GENERAL INFO
❖ Cornell Fruit Pest Control Field Days

No. 23, August 25
INSECTS
❖ Comparison of pest events 2014 to the calculated "Norm"
DISEASES
❖ Strep resistant fire blight survey status
❖ Nectria canker
GENERAL INFO
❖ Cornell Fruit Pest Control Field Days

No. 24, September 2
INSECTS
❖ 2014 tree fruit arthropod pest review
❖ 2014 Insect trap catch summary
GENERAL INFO
❖ Index of Scaffolds Volume 23, 2014

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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