

SCAFFOLDS Fruit Journal, Geneva, NY

Volume 22, No. 23

Update on Pest Management and Crop Development

August 26, 2013

COMING EVENTS

	43°F	50°F
Current DD accumulations		
(Geneva 1/1-8/26):	2875	1993
(Geneva 1/1-8/26/2012):	3407	2411
(Geneva "Normal" for this date):	2949	2020
(Geneva 1/1-9/2 predicted):	3117	2179

Upcoming Pest Events – Ranges (Normal ± Std Dev):

American plum borer

2nd flight subsides2927-3353 2018-2372

Apple maggot flight subsides.....2927-3353 2018-2372

Codling moth

2nd flight subsides2845-3493 1922-2472

Lesser appleworm

2nd flight subsides2794-3488 1918-2422

Obliquebanded leafroller

2nd flight peak2593-3011 1758-2098

Obliquebanded leafroller

2nd flight subsides3095-3473 2121-2457

Oriental fruit moth

3rd flight peak	2662-3236	1831-2243
Oriental fruit moth		
3rd flight subsides	2928-3412	1978-2310
Peachtree borer flight subsides ..	2478-3126	1672-2180
Redbanded leafroller		
3rd flight peak	2717-3207	1881-2225
San Jose scale		
2nd flight subsides	2673-3419	1813-2429
San Jose scale		
2nd gen. crawlers emerge.....	2746-2852	1916-2104
Spotted tentiform leafminer		
3rd flight peak	2578-3030	1754-2116

ORCHARD RADAR DIGEST

[Box Text: GONE]

Geneva Predictions:

Codling Moth

Codling moth development as of August 19: 2nd generation adult emergence at 96% and 2nd generation egg hatch at 79%.

[Section: INSECTS]

ROLL CALL

(Dave Kain & Art Agnello, Entomology, Geneva)

[Box text: WET WILLIE]

We almost couldn't have had a season that was more dissimilar to 2012 than we had this year, to nearly everyone's relief, as the insect scene was far more predictable (or unpredictable in its relatively normal way) and followed along the lines we have gotten to expect. Our spring was nice and gradual, almost excessively, so the early season pests were not particularly challenging, and proceeded similarly through a good bloom and fruit set period. The summer was rather wet and humid, with some heat but not as much as we would have liked; summer pest populations fell into the "typical" category, with healthy populations of the internal leps, and an apple maggot flight that was slow to start and which looks to be ongoing still. The invasive pest species took up much more of our attention, but haven't quite registered at the crisis level just yet.

Following are summarized comparative listings of some of the pest events (for the "usual" species) that occurred this season (in Geneva) with calendar and degree-day normals. The values and dates are given \pm one standard deviation; i.e., events should occur within the stated range approximately 7 years out of 10.

<u>EVENT</u>	<u>Date</u>		<u>DDays (43°F)</u>	
	<u>Normal</u> (±days)	<u>2013</u>	<u>Normal</u> (±DD)	<u>2013</u>
APPLE MAGGOT				
1st catch	2-Jul(±10)	29-Jun	1453(±210)	1697
Peak	5-Aug(±11)	23-Jul	2380(±277)	2449
AMERICAN PLUM BORER				
1st catch	15-May(±6)	16-May	445(±51)	399
1st flight peak	3-Jun(±9)	16-May	799(±174)	399
1st flt subsides	28-Jun(±6)	8-Jul	1317(±118)	1610
2nd flight start	15-Jul(±9)	25-Jul	1804(±269)	2126
CODLING MOTH				
1st catch	18-May(±8)	16-May	488(±87)	399
1st flight peak	3-Jun(±13)	3-Jun	785(±214)	770
1st flt subsides	6-Jul(±14)	11-Jul	1571(±280)	1707
2nd flight start	21-Jul(±14)	22-Jul	1919(±337)	2057
GREEN FRUITWORM				
1st catch	6-Apr(±7)	4-Apr	103(±51)	39
Peak	17-Apr(±9)	15-Apr	159(±57)	82
Flight subsides	7-May(±10)	20-May	351(±100)	465

LESSER PEACHTREE BORER

1st catch	24-May(± 9)	20-May	584(± 99)	465
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OBLIQUEBANDED LEAFROLLER

1st catch	9-Jun(± 7)	10-Jun	903(± 85)	883
1st flight peak	16-Jun(± 7)	17-Jun	1017(± 191)	1021
1st flt subsides	15-Jul(± 7)	22-Jul	1811(± 217)	2057
2nd flt begins	8-Aug(± 9)	12-Aug	2455(± 200)	2549

ORIENTAL FRUIT MOTH

1st catch	2-May(± 9)	6-May	277(± 52)	267
1st flight peak	15-May(± 12)		6-May	
	447(± 100)	267		
1st flt subsides	12-Jun(± 8)	10-Jun	980(± 143)	883
2nd flt begins	30-Jun(± 5)	1-Jul	1398(± 112)	1391
2nd flight peak	11-Jul(± 10)	8-Jul	1730(± 259)	1610
3rd flt begins	11-Aug(± 9)	12-Aug	2579(± 284)	2549

REDBANDED LEAFROLLER

1st catch	15-Apr(± 9)	25-Apr	144(± 34)	157
1st flight peak	3-May(± 9)	2-May	301(± 67)	195
1st flt subsides	1-Jun(± 8)	28-May	744(± 155)	603

SAN JOSE SCALE - adult males

1st catch	20-May(± 8)	23-May	522(± 92)	554
1st flt subsides	15-Jun(± 9)	17-Jun	1042(± 191)	1021

2nd flt begins	15-Jul(±8)	22-Jul	1793(±173)	2057
2nd flight peak	3-Aug(±9)	5-Aug	2314(±186)	2376

SPOTTED TENTIFORM LEAFMINER

1st catch	18-Apr(±8)	29-Apr	163(±50)	194
1st flight peak	6-May(±8)	6-May	336(±68)	267
1st flt subsides	5-Jun(±9)	30-May	815(±141)	648
2nd flt begins	16-Jun(±7)	24-Jun	1076(±86)	1192
2nd flight peak	7-Jul(±9)	15-Jul	1584(±207)	1824
3rd flt begins	7-Aug(±8)	12-Aug	2456(±199)	2549
3rd flight peak	20-Aug(±9)	22-Aug	2804(±226)	2782

<u>CROP</u>	<u>Date</u>		<u>DDays (43°F)</u>	
<u>PHENOLOGY</u>	<u>Normal</u>	<u>2013</u>	<u>Normal</u>	<u>2013</u>
	<u>(±days)</u>		<u>(±DD)</u>	

APPLE (MCINTOSH)

Half-inch green	19-Apr(±9)	22-Apr	177(±23)	136
Tight cluster	27-Apr(±8)	29-Apr	235(±24)	194
Pink	3-May(±7)	6-May	297(±22)	267
Bloom	10-May(±6)	9-May	384(±35)	325
Petal fall	17-May(±6)	20-May	485(±39)	465

APPLE (RED DELICIOUS)

Half-inch green	18-Apr(±10)	29-Apr	194(±24)	194
Tight cluster	25-Apr(±11)	2-May	248(±26)	195

Pink	5-May(± 8)	6-May	335(± 36)	267
Bloom	13-May(± 7)	13-May	427(± 47)	375
Petal fall	21-May(± 8)	22-May	540(± 65)	523

PEACH

Bud burst	17-Apr(± 11)	25-Apr	158(± 37)	157
Pink	26-Apr(± 11)	29-Apr	231(± 30)	194
Bloom	2-May(± 9)	2-May	295(± 31)	195
Petal fall	12-May(± 7)	18-May	408(± 44)	425

PEAR (BARTLETT)

Bud burst	18-Apr(± 9)	22-Apr	160(± 29)	136
Green cluster	26-Apr(± 10)	29-Apr	233(± 21)	194
White bud	2-May(± 9)	2-May	284(± 24)	195
Bloom	6-May(± 9)	6-May	344(± 37)	267
Petal fall	13-May(± 8)	13-May	424(± 38)	375

SWEET CHERRY

Bud burst	18-Apr(± 9)	22-Apr	167(± 24)	136
White bud	27-Apr(± 8)	2-May	223(± 26)	195
Bloom	1-May(± 8)	6-May	278(± 22)	267
Petal fall	9-May(± 6)	11-May	386(± 33)	362

[Section: GENERAL INFO]

EVENT ANNOUNCEMENTS

[Box text: ONE MORE TIME]

CORNELL FRUIT PEST CONTROL FIELD DAYS

The N.Y. Fruit Pest Control Field Days will take place during Labor Day week on Sept. 4 and 5 this year, with the Geneva portion taking place first (Wednesday Sept. 4), and the Hudson Valley installment on the second day (Thursday Sept. 5). Activities will commence in Geneva on the 4th, with registration, coffee, etc., in the lobby of Barton Lab at 8:30 am. The tour will proceed to the orchards to view plots and preliminary data from field trials involving new fungicides, bactericides, miticides, and insecticides on tree fruits and grapes. It is anticipated that the tour of field plots will be completed by noon. On the 5th, participants will register at the Hudson Valley Laboratory starting at 8:30, after which they will view and discuss results from field trials on apples and other fruit crops. Although Dave Rosenberger did not run sponsored trials this year, he will be reporting on four field trials involving efficacy of copper products in green tip sprays, potential of Blossom Protect to russet fruit when applied to control blossom blight, scab and rust control with ProPhyt and AgriFos, and efficacy of summer fungicides applied after sooty blotch and flyspeck have

become established. No pre-registration is required for either event.

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

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