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Update on Pest Management and Crop Development

August 27, 2012

COMING EVENTS

	43°F	50°F
Current DD accumulations		
(Geneva 1/1-8/27):	3439	2436
(Geneva 1/1-8/27/2011):	3151	2234
(Geneva "Normal"):	2950	2018
(Geneva 1/1-9/3 predicted):	3630	2578
(Highland 1/1-8/27/12):	3659	2573
(Highland 1/1-8/27/11):	3338	2359

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

American plum borer

2nd flight subsides 2927–3353 2018–2372

Apple maggot flight subsides... 2772–3258 1907–2283

Codling moth

2nd flight subsides 2845–3493 1922–2472

Lesser appleworm

2nd flight subsides 2794–3488 1918–2422

Lesser peachtree borer

flight subsides 2996–3446 2017–2433

Obliquebanded leafroller

2nd flight subsidies	3095–3473	2121–2457
Oriental fruit moth		
3rd flight subsidies	2928–3412	1978–2310
Redbanded leafroller		
3rd flight subsidies	3124–3436	2142–2422
San Jose scale		
2nd flight subsidies	2639–3349	1785–2371
Spotted tentiform leafminer		
3rd flight subsidies	3230–3444	2246–2432

TRAP CATCHES (Number/trap/day)

Geneva

	8/16	8/20	8/23	8/27
Redbanded Leafroller	0.0	0.0	0.0	0.0
Spotted Tentiform Leafminer	11.7	3.0	3.3	1.6
Oriental Fruit Moth	0.0	0.0	0.0	0.1
American Plum Borer	0.0	0.3	0.0	0.0
Lesser Appleworm	0.0	0.0	0.0	0.0
San Jose Scale	6.0	6.1	1.8	3.0
Codling Moth	0.0	0.0	0.0	0.3
Obliquebanded Leafroller	0.0	0.0	0.0	0.0
Apple Maggot	1.2	0.6	0.2	0.1

Highland (Peter Jentsch)

	8/6	8/13	8/20	8/27
Redbanded Leafroller	1.8	4.3	3.8	5.5

Spotted Tentiform Leafminer	39.2	28.4	15.9	28.4
Oriental Fruit Moth	0.4	0.6	0.3	1.5
Codling Moth	1.3	1.3	0.6	0.5
Lesser Appleworm	3.1	8.6	3.5	2.1
Tufted Apple Budmoth	0.0	0.2	0.4	0.5
Fruittree Leafroller	0.0	0.0	0.0	0.0
Variegated Leafroller	1.4	1.0	0.7	0.6
Obliquebanded Leafroller	<0.1	0.2	0.1	0.0
San Jose Scale	3.8	1.1	1.2	2.1
Sparganothis fruitworm	<0.1	0.0	0.0	0.3
Apple Maggot	1.9	1.4	0.6	0.6

[Section: INSECTS]

THE LONG, HOT SUMMER

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[Box text: A REAL BARN BURNER]

Needless to say, we saw an incredibly early start to tree and insect development this year, with degree day accumulations up to a month ahead of "normal" early in the season. At the end, we are still 2–3 weeks ahead, in terms of degree days. Frost damage to some crops and some varieties of all crops was widespread. In some cases, insect development was not only ahead of

schedule, but had an unusual pattern. Obliquebanded leafroller appeared to be confined to one very early, heavy, long flight in Geneva, while Wayne Co. numbers showed a distinct break between flights during the middle of July. Redbanded leafroller numbers looked similar. Apple maggot showed only after we finally saw some showers following a prolonged drought period.

Following are summarized comparative listings of some of the pest events 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> (\pm days)	<u>2012</u>	<u>Normal</u> (\pm DD)	<u>2012</u>
APPLE MAGGOT				
1st catch	2-Jul(\pm 10)	29-Jun	1444(\pm 209)	1697
Peak	4-Aug(\pm 11)	23-Jul	2352(\pm 250)	2449
AMERICAN PLUM BORER				
1st catch	15-May(\pm 6)	7-May	442(\pm 51)	491
1st flight peak	4-Jun(\pm 8)	14-May	809(\pm 173)	598

1st flt subsidies	28-Jun(± 6)	21-Jun	1308(± 114)	1489
2nd flight start	15-Jul(± 9)	9-Jul	1793(± 271)	2019
2nd flt subsidies	3-Sep(± 6)	20-Aug	3140(± 213)	3251

CODLING MOTH

1st catch	19-May(± 7)	4-May	489(± 89)	455
1st flight peak	4-Jun(± 12)	17-May	791(± 217)	656
1st flt subsidies	7-Jul(± 14)	25-Jun	1569(± 289)	1601
2nd flight start	21-Jul(± 14)	16-Jul	1914(± 345)	2238
2nd flt subsidies	12-Sep(± 13)		3169(± 324)	

GREEN FRUITWORM

1st catch	5-Apr(± 8)	9-Apr	96(± 36)	282
Peak	17-Apr(± 9)	12-Apr	159(± 57)	291
Flight subsidies	7-May(± 10)	23-Apr	349(± 102)	396

LESSER PEACHTREE BORER

1st catch	24-May(± 9)	15-May	583(± 101)	618
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OBLIQUEBANDED LEAFROLLER

1st catch	10-Jun(± 6)	28-May	902(± 86)	924
1st flight peak	15-Jun(± 7)	25-Jun	991(± 148)	1601
1st flt subsidies	15-Jul(± 7)	23-Jul	1782(± 170)	2449

ORIENTAL FRUIT MOTH

1st catch	2-May(± 8)	16-Apr	276(± 52)	330
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1st flt peak	16-May(± 10)	16-Apr	451(± 99)	330
1st flt subsides	13-Jun(± 8)	4-Jun	976(± 145)	1072
2nd flt begins	30-Jun(± 5)	21-Jun	1395(± 112)	1489
2nd flt peak	12-Jul(± 9)	29-Jun	1731(± 265)	1697
3rd flt begins	11-Aug(± 8)	26-Jul	2536(± 210)	2547

PANDEMIS LEAFROLLER

1st catch	6-Jun(± 6)	25-May	841(± 66)	841
Flight subsides	4-Jul(± 5)	29-Jun	1528(± 116)	1697

REDBANDED LEAFROLLER

1st catch	16-Apr(± 7)	20-Mar	142(± 33)	159
1st flight peak	3-May(± 9)	16-Apr	297(± 66)	330
1st flt subsides	1-Jun(± 8)	28-May	738(± 154)	924
2nd flt begins	1-Jul(± 7)	25-Jun	1431(± 196)	841

SAN JOSE SCALE - adult males

1st flight begins	21-May(± 8)	4-May	525(± 93)	455
1st flt subsides	15-Jun(± 9)	25-May	1042(± 191)	841
2nd flt begins	15-Jul(± 8)	5-Jul	1788(± 177)	1895
2nd flt peak	3-Aug(± 9)	23-Jul	2307(± 189)	2449

SPOTTED TENTIFORM LEAFMINER

1st catch	18-Apr(± 8)	16-Apr	159(± 47)	330
1st flight peak	7-May(± 8)	26-Apr	334(± 68)	399
1st flt subsides	5-Jun(± 9)	31-May	808(± 138)	1012

2nd flt begins	16-Jun(± 7)	7-Jun	1074(± 87)	1115
2nd flight peak	7-Jul(± 9)	25-Jun	1584(± 211)	1601
3rd flt begins	8-Aug(± 7)	23-Jul	2456(± 203)	2449
3rd flight peak	21-Aug(± 9)	9-Aug	2791(± 230)	2970

<u>CROP</u>	<u>Date</u>		<u>DDays (43°F)</u>	
<u>PHENOLOGY</u>	<u>Normal</u>	<u>2012</u>	<u>Normal</u>	<u>2012</u>
	<u>(\pmdays)</u>		<u>(\pmDD)</u>	

APPLE (MCINTOSH)

Half-inch green	20-Apr(± 6)	22-Mar	176(± 23)	199
Tight cluster	28-Apr(± 7)	2-Apr	235(± 22)	259
Pink	4-May(± 7)	16-Apr	295(± 21)	330
Bloom	10-May(± 6)	30-Apr	384(± 36)	399
Petal fall	18-May(± 6)	7-May	485(± 40)	491

APPLE (RED DELICIOUS)

Half-inch green	20-Apr(± 7)	22-Mar	194(± 25)	199
Tight cluster	27-Apr(± 7)	28-Mar	248(± 27)	247
Pink	6-May(± 7)	16-Apr	335(± 37)	330
Bloom	14-May(± 7)	30-Apr	428(± 48)	399
Petal fall	22-May(± 8)	7-May	542(± 66)	491

PEAR (BARTLETT)

Bud burst	19-Apr(± 7)	22-Mar	158(± 29)	199
Green cluster	27-Apr(± 7)	2-Apr	232(± 21)	259

White bud	3-May(± 8)	9-Apr	284(± 25)	282
Bloom	7-May(± 8)	16-Apr	344(± 38)	330
Petal fall	14-May(± 7)	23-Apr	425(± 38)	396

SWEET CHERRY

Bud burst	19-Apr(± 7)	22-Mar	166(± 24)	199
White bud	27-Apr(± 7)	9-Apr	220(± 23)	282
Bloom	2-May(± 7)	16-Apr	276(± 20)	330
Petal fall	10-May(± 6)	26-Apr	385(± 33)	399

[Section: GENERAL INFO]

EVENT REMINDERS

[Box text: FIELD DAYS]

CORNELL FRUIT PEST CONTROL FIELD DAYS

The N.Y. Fruit Pest Control Field Days will take place during Labor Day week on Sept. 5 and 6 this year, with the Geneva portion taking place first (Wednesday Sept. 5), and the Hudson Valley installment on the second day (Thursday Sept. 6). Activities will commence in Geneva on the 5th, 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 6th, 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. No pre-registration is required for either event.

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