

Fruit IPM for the Week Ending 8/17/13

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Brown Marmorated Stink Bug (BMSB): Scorpion (dinotefuran) was just labeled for BMSB use on stone fruit and pome fruit. There is a 3 day PHI. Scorpion has had a peach/nectarine label for a foliar use rate of up to 7 oz/A for leafhoppers, native stink bugs, and aphid suppression. The effective rate for BMSB control is 8-12 oz/A. The higher rates (10-12 oz/A) should be used when adults are present, when pest pressure is high, or on large trees. We have 14 monitoring points on commercial farms, each with a pheromone trap combined with 3 minute timed counts. BMSB activity has picked up some, with both adults and nymphs present. However there are significant numerical differences between farm sites. In general there is about a 5:1 ration of nymphs to adults in the traps.

Peach

Oriental Fruit Moth (OFM): Third brood treatments have already been applied. The last spray in northern counties was due late last week. Trap counts in peaches are very low statewide, indicating low insect pressure in peaches. Given degree day predictions, a fourth brood will start to hatch in southern counties next week (8/21-23). Be aware of trap captures during the last part of August for late variety fruit. Remember that this insect will also infest apples, and trap counts on some farms are considerably higher in that crop. Trap captures above 5-8 moths per trap indicate a treatable population.

Tufted Apple Budmoth (TABM): Timings for second generation TABM control are outlined below. There is very little pressure from this insect, and most likely will not be a problem this year.

	Conventional, Diamides	Conventional, Diamides	Intrepid, Rimon	Bt
County Area	AM – 4 middles	EM – 2 completes	EM – 2 completes	EM – complete
Southern	3 rd 8/10-8/12; 4 th 8/17-8/19	2 nd – 8/13-8/16	2 nd – 8/13-8/16	2 nd – 8/10-8/13 3 rd – 8/18-8/21
Northern	2 nd 8/14-16; 3 rd 8/22-8/24	1 st 8/10-8/12; 2 nd about 8/26- 8/29	1 st 8/13-8/16; 2 nd about 8/26—8/29	1 st 8/12-8/16, 2 nd about 8/22-8/26

Brown Rot: Brown rot continues to be difficult to control where frequent rainfall is occurring. All that can be done is to maintain coverage with highly effective materials using adequate volume of at least 100 GPA. Coverage should be renewed as soon as possible after 1.5” or more of rain. Be sure also to include effective insecticides for BMSB as feeding adults can cause injury that can become infected.

Apple

Tufted Apple Budmoth: See Peach Section above.

Codling Moth (CM): Third brood codling moth started to hatch around 8/10 in southern counties, and is projected to start hatching in northern counties (Hunterdon Co.) around 8/20-21. Degree day predicted treatments under normal insect pressure should be applied in southern counties starting on 8/16. Trap counts on most farms remain below our treatment threshold of 5 males per trap. Be aware that this can change as larvae emerge from apples or wild and abandoned hosts.

Grape

Grape Berry Moth (GBM): Timing for the 4th generation of grape berry moth will be around 8/24-26 in southern counties.

Grape Berry Moth Trap Captures 2013		Grape Root Borer
Date	Average males/trap	Average males/trap
5/25	0	
6/1	2	
6/8	13	
6/15	3	
6/22	0	
6/29	2	0
7/6	6	1
7/13	5	1
7/20	4	4
7/27	2	9
8/3	2	14
8/10	5	10

Scouting Calendar

The table is an aid for orchard scouting. It should *not* be used to time pesticide applications. Median dates for pest events and crop phenology are compiled from Gloucester County over the past 5-10 years in. Events in northern New Jersey should occur 7-10 days later.

Pest Event or Growth Stage	Approximate Date	2013 Observed Date
Full Bloom Peach (Redhaven)	April 16 +/- 7 Days	April 11
Full Bloom Apple (Red Delicious)	April 20 +/- 9 Days	May 1
Petal Fall (Red Delicious)	April 27 +/- 13 Days	May 9
Shuck Split (Redhaven)	April 29 +/- 7 Days	May 8
Pit Hardening	June 19 +/- 5 Days	June 18

Blueberry

Spotted Wing Drosophila (SWD): Trap Captures – Trap captures remain very high again this week. Any Elliott fields still need to be on a protective schedule.

Larval Counts – Samples of unharvested and other “old fruit” left in the fields continue to show infested fruit, which will likely provide the overwintering population. Commercial late harvest berries (Elliott) continue to be clean and of excellent quality. Unsprayed Elliott and other late varieties are infested as indicated from unsprayed plots at the Marucci Center.

Putnam Scale: Crawler counts have increased again since last week. Growers who had infested berries during the first generation should treat this generation as soon as possible. Esteem and Diazinon are the suggested products.

Tree Fruit Trap Counts – Southern Counties									
Week Ending	STLM	TABM_A	CM	AM	OFM-A	DWB	OFM-P	TABM_P	LPTB
4/13					0		0		
4/20	14				5		0		
4/27	0				51		1		
5/4	4	0	0		83		4	0	
5/11	3	1	27		17		2	0	
5/18	5	2	12		28		5	3	28
5/25	1	16	17		23		5	15	38
6/1	1	17	8		30		0	18	12
6/8	1	29	8		1	44	0	37	52
6/15	13	18	7		1	73	0	15	16
6/22	5	8	3		9	35	0	6	24
6/29	13	3	2		0	13	0	3	5
7/6	0	1	1		0	11	0	1	0
7/13	4	1	3		0	4	0	1	12
7/20	7	3	5		12	3	1	3	4
7/27	6	4	5	0	26	3	0	5	1
8/3	6	3	3	0	9	3	0	4	2
8/10	12	3	4	0	10	60	1	2	2

Tree Fruit Trap Counts – Northern Counties										
Week Ending	STLM	TABM-A	CM	AM	OFM-A	DWB	OBLR	OFM-P	TABM-P	LPTB
4/13	1									
4/20	2							0		
4/27	71.5		0					1.1		
5/4	74		0					9.3	0	
5/11	87		1.3		29.4			14.1	0	
5/18	41	0	3.9		36			9.4	0	0
5/25	33.2	8.9	6.6		12.2			10.3	5.3	17.5
6/1	16.6	15.1	5		8.6			2.5	20.6	20
6/8	29.3	40.4	6.3		1.2	4.3	2.7	0.5	45.6	27.5
6/15	43.3	46.3	1.6		0.2	1.5	5	0.2	59.4	22.4
6/22	57.7	41.9	1.8		0.2	1.7	1.7	0.8	39	12.8
6/29	58.9	25.3	1.7		1.4	1.7	2	2.4	26	11.4
7/6	85.4	12.7	0.6		1.1	3.3	2.7	4.3	9.8	8.5
7/13	41.6	4.2	1.1		4.5	13	0	2	2.4	7.2
7/20	18.7	1.6	2.1	0	1.2	7.7	0	0.8	1.1	6.9
7/27	74.7	3.2	6.3	0	2	1	0.7	1.5	1.7	2.9
8/3	78.3	3.3	8.1	0	2.2	3	0.3	1.7	2.9	4.1
8/10	76.6	3.7	2.6	0	1	3.7	0	1.1	2.9	2.7

Blueberry Insect Trap Counts - Atlantic County						
Week Ending	RBLR	CBFW	OBLR	SNLH	Or. Beetle	BBM
4/13	116					
4/20	120					
4/27	100					
5/4	72	0				
5/11	28	0.01				
5/18	12.4	0.15				
5/25	3.1	0.1				
6/1	1.6	0.83				1.6
6/8	4.7	0.89	0	4.5	0	4.7
6/15	58	0.48	7.3	0.3	189	0
6/22	80	0.08	12	0.5	350	0.005
6/29	47	0.005	3.7	0.13	1723	0.006
7/6	54.4	0.004	1.3	0.04	2159	0.1
7/13	25.4	0	0.7	0.43	1966	0.1
7/20	8	0	4.3	0.02	897	0.12
7/27	15.2	0	7.8	0.03	442	0.08
8/3	6.4		1.5	0.05	55	0.05
8/10	14.5		1.1	0.09	10	0

Blueberry Insect Trap Counts - Burlington County						
Week Ending	RBLR	CBFW	OBLR	SNLH	Or. Beetle	BBM
4/13	71					
4/20	44					
4/27	38					
5/4	26	0				
5/11	9	0				
5/18	1	0.04				
5/25	2	0.13				
6/1	0.2	2.1				
6/8	2.8	1.2	0.33	1	0.07	2.8
6/15	4.8	0.91	8	0.24	26	0
6/22	28.3	0.03	10.3	0.6	231	0
6/29	38.4	0.14	1	0.01	957	0.01
7/6	64.3	0.2	6	0.23	905	0.05
7/13	22.3	0.04	0	0.05	878	0.02
7/20	2	0.15	0	0	330	0
7/27	3.5	0	1	0	141	0.02
8/3	0.5		0	0	11	0.03
8/10	0		0	0.02	7	0