

Fruit IPM for the Week Ending 8/24/13

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Brown Marmorated Stink Bug (BMSB): The number of nymphs being caught in pheromone traps has increased since last week, along with a few more adults. More injury is being seen on border trees near woods. Insect activity is also more pronounced along block edges. Some injury is also being seen inside blocks. All tree fruit should be receiving weekly alternate middle insecticides. The addition of weekly border sprays (insecticide applications blowing into the orchard border trees), will help control BMSB. Remember that in addition to the products listed in the Production Guide, we also have Brigade/Bifenture and Scorpion. Brigade and Bifenture have a 14 day PHI and Scorpion has a 3 day PHI. Other choices for BMSB materials on peach include Baythroid – 7 day PHI, Danitol – 3 day PHI, Leverage – 7 day PHI. With the exception of early apples, most are still more than 14 days from picking, so BMSB insecticide options include a longer list. Be aware that Warrior and other lambda cyhalothrin materials have a 21 day PHI on apple, Danitol – 14 days and Mustang Max - 14 days.

Peach

Oriental Fruit Moth (OFM): Fourth brood treatments are due this week in southern counties on any late varieties that are 7 or more days away from harvest. Sprays will be due from 8/20 to 8/22, especially if trap counts are more than 5-8 moths per trap, or there is high OFM activity in neighboring blocks. We have seen instances where OFM activity is actually higher in neighboring apple blocks. Be aware that this insect can move from apples to peaches and back to apples.

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	4 th 8/18-8/20	2 nd – past	2 nd – past	2 nd – past 3 rd – 8/20-8/22
Northern	3 rd 8/22-8/24, 4 th 8/29-8/31	1 st past; 2 nd about 8/26-8/28	past; 2 nd 8/26-8/28	1 st past, 2 nd 8/22- 8/25

White Peach Scale (WPS): Third generation white peach scale crawlers are active in southern counties. Options for control close to harvest include Assail or Movento (7 day PHI), and Esteem or Centaur (14 day PHI). Actara (14 day PHI) has been observed to provide good control in the field. Leverage (7 day PHI), and Admire Pro (0 day PHI) may provide some suppression.

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 about 5% hatched at the present time (8/20). Hatch is just starting in northern counties. With the drawn out generations, growers should apply codling moth effective materials anytime trap counts are exceed 5 males per trap.

Grape

Grape Berry Moth (GBM): Timing for the 4th generation of grape berry moth will be around 8/26 in southern counties if using Intrepid or diamides (Belt; Altacor).

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
8/17	2	7

Scouting Calendar

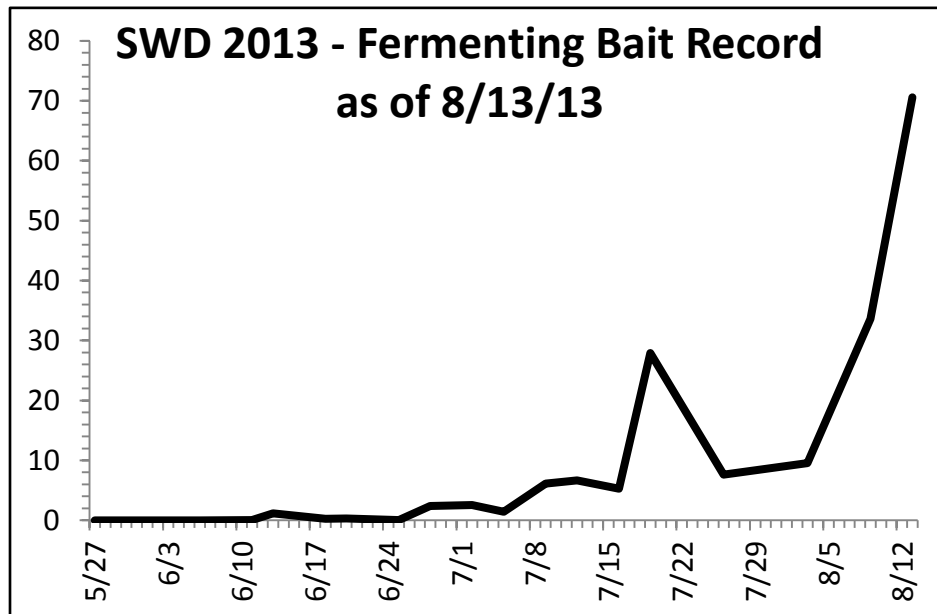
The table is an aid for orchard scouting. It should *not* be used to time pesticide applications. Median dates for pest events and crop phenology are compiled from Gloucester County over the past 5-10 years in. Events in northern New Jersey should occur 7-10 days later.

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 and Larvae – Fermenting trap captures show and increasing population which is multiplying on remaining berries. Unharvested fruit and berries on the ground are providing the hosts at this point in time. Samples taken from

unharvested fruit show over 400 larvae per qt of fruit. Most of this is only of interest, since all commercial fruit is already harvested.



Putnam Scale: Crawler activity has increased since last week. Although most treatments for second generation scale should have already been applied, this is your last chance since crawler activity should taper off during the next couple of weeks. Diazinon and Esteem have shown good results in the past. The pyrethroids, Brigade and Mustang are also labeled for various scale insects, but since we have little efficacy data for these products on Putnam Scale, we do not know how they will perform. In general, pyrethroids are not used for scale control.

Sharpnosed Leafhopper: Adult trap captures are close to the same level as seen the previous week. We expect an increase in captures soon for the second generation, but since it hasn't happened, it is still too early to be treating for second flight sharpnosed leafhopper.

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
8/17	7	2	4	0	16	39	2	3	6

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
8/17	76.6	5.9	2.9	0	1.1	1.7	0	1.2	4.7	3.6

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
8/16				0.045		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
8/16				0.063		0