

***At a Glance.....***

PEST/DISEASE/CULTURE	JUNE 16 – JUNE 23 FRUIT SET	JUNE 23 – JUNE 30 FRUIT SET
SPOTTED WING DROSOPHILA Lannate, Imidan, Malathion, Delegate/Entrust, Asana, Brigade, Danitol, Mustang- Max	Use materials for aphids and maggot that also control drosophila when possible.	Use materials for aphids and maggot that also control drosophila when possible.
ORIENTAL BEETLE Admire or imidacloprid generic. Mating disruption.	Monitor and treat with imidacloprid (Admire Pro) or generic product now through mid July if OB populations are high. Alternatively use mating disruption.	Monitor and treat with imidacloprid (Admire Pro) or generic product now through mid July if OB populations are high.
BLUEBERRY MAGGOT See list from previous newsletter	Monitor traps and treat if catching 1 or more flies per trap in any production area.	Monitor traps and treat if catching 1 or more flies per trap in any production area.
APHIDS Admire, Assail, or Actara	Treat if over 10% of terminals are infested.	Treat if over 10% of terminals are infested.

***Culture***

**Dr. Gary C. Pavlis, Ph. D**  
**Atlantic County Agricultural Agent**

Harvest of early Duke's is beginning and the hot weather this week will quicken the ripening. The crop looks to be moderate in size and growers are not reporting any major problems in their fields. Readers of this newsletter have long heard me state how important it is to maintain the proper pH range for the optimum blueberry growth. In recent years this has become more

complicated to do. More and more growers are using mulch to increase their soil organic matter. This is a beneficial practice UNLESS the mulch is high in pH. All mulches are not the same. Depending on the mulch content and the degree of composition, the pH can be vastly different. Before using mulch in the blueberry field, have it analyzed to determine the pH. Mulch with a pH of 6.4, like the one I

tested this week is not conducive to blueberry root growth. With the addition of sulfur this may work but unless it is analyzed the grower will never know that the pH is being driven out

of the optimum range. This is even more important if this mulch is composted and put in the planting hole.

## *Insects*

**Dr. Cesar Rodriguez-Saona, Extension Specialist in Blueberry Entomology, Rutgers University**  
**Mr. Dean Polk, IPM Agent – Fruit**

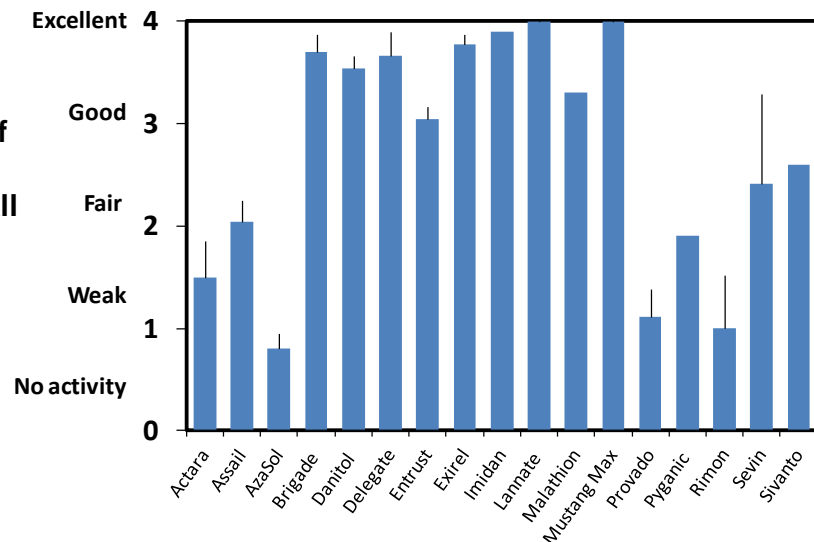
**Aphids:** Growers who have treated for aphids have seen decreased populations overall, but not as good as control as we normally see. Some spots still have 20-40% of the bottom shoots infested with aphids.

**Spotted Wing Drosophila (SWD):** While we have not captured any adult SWD yet, Duke fruit is ripe and Bluecrop is starting to color. Previous research has shown that SWD usually starts to lay eggs on coloring and ripening fruit. Since we cannot predict what will happen over the next 7-10 days, we suggest that a 7-day insecticide program be started now to target emerging SWD. For those growers who are still experiencing aphid issues, we DO NOT suggest continued use of neonicotinoid materials (Assail, Actara, Admire). This is not good resistance management, and they are not very effective for SWD. Duke being exported to Canada

SHOULD NOT receive any additional Imidan applications, since the MRL in Canada is less than in the U.S. Instead, plan on Lannate anywhere aphids may still be an issue. Where aphids are not a problem then Danitol would be a good choice. If you are not exporting to Canada, then any pyrethroid will do, and Imidan is fair game. Delegate is a good choice for SWD, and should be in an alternating program during the last 2 -3 weeks of the program. It actually has a higher MRL for Canada than we have in the U.S. It has a 3 day PHI and should be used at a rate of 5-6 oz/A with a maximum use of 19.5 oz/A/season. This means you get 3 applications 6-7 days apart, alternating with another chemistry. Malathion still has a 24C label for the high rate as used last year with a 1-day PHI. This means you can use the Malathion 8F at up to 2.5 pt/A or 2.5 lb ai/A. The high rate is what is needed for good SWD control.

Ranking of insecticides based on efficacy against SWD (data provided by Dr. Rufus Isaacs, Michigan State University)

**2013 national review of insecticide efficacy against SWD, across all crops.**



**Putnam Scale:** Crawlers are still present, and seem to be more common on tender growth new canes at the bottom of the plant. This is suggestive of poor coverage of previous insecticides targeted to scale population. Some farms have had visible scales already settled on fruit. Any field that has a significant scale population should treat the second generation in early August. Since the scales are starting to settle down and grow a hard shell, treating the first generation is not practical for the remainder of the season.

**Cranberry Fruitworm (CBFW):** Increased CBFW trap captures have been seen in some areas of up to 50 moths per trap. It is interesting to note that these captures have only been seen where cranberry bogs are close by. It is possible that this represents a population oriented to cranberry, since that crop is starting to flower. With the increased applications for SWD, no special attention needs to be devoted towards CBFW in blueberries.

## *Insect Trap Counts*

### **Blueberry Trap Counts – Atlantic County**

Week Ending	CBFW		
5/24	1.2		
5/31	6.0		
6/7	0.33		
6/14	1.8		

### **Blueberry Trap Counts – Burlington County**

Week Ending	CBFW		
5/24	2		
5/31	0.13		
6/7	0.25		
6/14	10		

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***BLUEBERRY BULLETIN***

If you have any comments about this newsletter, please make them in the space below and mail to: Dr. Gary C. Pavlis, County Agricultural Agent, Rutgers Cooperative Extension of Atlantic County, 6260 Old Harding Highway, Mays Landing, NJ, 08330

I would like to see an article on the following subjects: \_\_\_\_\_

I would like to comment on the following articles: \_\_\_\_\_

Title: \_\_\_\_\_

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