

The Blueberry Bulletin

A Weekly Update to Growers

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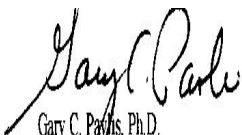


- ❖ Visit the Blueberry Bulletin webpage at njaes.rutgers.edu/blueberry-bulletin
- ❖ The 2022 Commercial Blueberry Pest Control Recommendations for New Jersey is available on njaes.rutgers.edu

BLUEBERRY CULTURE

Dr. Gary C. Pavlis, PhD.
Atlantic County Agricultural Agent

This year's harvest is coming along without too many problems. Growers have told me that the lack of labor has been a problem and undoubtedly the Duke crop was down, some say 20%, some say as high as 40%. Bluecrop as usual seems to have weathered the cold and the poor pollination and has a normal crop. I visited a few newly planted fields this week and once again I must stress the point that late applications of nitrogen, meaning after July 1, can be disastrous. This is especially true on Duke. I visited a farm that was planted last year and was given a dose of nitrogen in late July and early August. This year the field has developed stem blight on 50% of the plants. Some will live, most will not. I believe Duke is especially sensitive to late applications of nitrogen. Bottom line; don't give Duke a late application of nitrogen. I also visited a second young field that was planted this spring. The entire field looks poor. Leaves are reddish yellow, growth is poor, and there were berries on the plants. I did a pH of the field and it was in the high 5's. First, why do a planting if the pH is not optimum? Growth will definitely be poor. Secondly, why leave fruit on one-year plants, again, this retards growth. The solution here was to add sulfur ASAP and strip all the berries off, also ASAP.


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

PEST MANAGEMENT

Blueberry Insects

Dr. Cesar Rodriguez-Saona, Extension Specialist in Blueberry Entomology, Rutgers University

Mr. Dean Polk, IPM Agent – Fruit

Ms. Carrie Mansue Denson, IPM Program Associate – Fruit

SWD Traps: The numbers of SWD on traps have increased from last week. SWD is the main target of insecticide sprays on Duke, if still picking, Bluecrop, and later varieties.

	SWD AC		SWD BC	
	Avg	Max	Avg	Max
5/25	6	9	0	0
6/2	4.6	6	2	3
6/10	2	3	4.3	8
6/18	33.47	76	12	71
6/25	22.95	82	12.07	43
7/2	31.86	159	13	17

Aphids: The average percentage of terminals infested with aphids was 7.5%, with a high of 60%. If you have already treated for aphids and your aphid populations are very low, or well less than 10% of terminals infested, then you can move on and focus on SWD treatments. If you still have aphid populations then you will need to treat for both pests – aphids and SWD.

	% Shoot Infestation by Leafrollers		% Terminals Infested by Aphids	
	Avg	Max	Avg	Max
5/28	0.16	2	8.3	40
6/2	0.048	4	10.75	64
6/10	0	0	6.58	72
6/18	0.04	6	6.56	66
6/25	0	0	5.6	58
7/2	0	0	7.5	60

Scale: The number of scales has stayed steady from last week. The average infested berries was 0.087, with a high of 1.2.

PEST MANAGEMENT (continued)

Blueberry Maggot (BBM), Oriental Beetle (OB) and Sharp-nosed Leafhopper (SNLH) traps: First catch of BBM was in Burlington County (BC) on Friday July 1st. OB trap counts have increased in both counties.

	BBM AC		BBM BC		OB AC		OB BC	
	Avg	Max	Avg	Max	Avg	Max	Avg	Max
6/18	0	0	0	0	195	340	173	675
6/25	0	0	0	0	675	675	1536	8000
7/2	0.011	1	0.04	1	2395	8100	1763	6000

	SNLH AC		SNLH BC	
	Avg	Max	Avg	Max
6/18	0	0	0	0
6/25	0.02	1	0.76	10
7/2	0.22	5	0	0

Infested fruit - Mummy Berry, Anthracnose and Alternaria: This week, the average infested fruit with anthracnose was 0.05, with a high 1.2. Mummy Berry and Alternaria symptoms are very low in the fields.

	Mummy Berry		Anthracnose		Alternaria	
	Avg	Max	Avg	Max	Avg	Max
6/25	0.0005	0.1	0.05	2.2	0.0005	0.1
7/2	0.001	0.1	0.05	1.2	0.002	0.2

Leps (Lepidoptera larvae – green fruitworms, leafrollers, spanworms, and spongy (= gypsy moth)) and Plum Curculio (PC):

	% Leafroller fruit Injury		% PC fruit Injury	
	Avg	Max	Avg	Max
5/21	0.03	0.2	0.34	3.2
5/28	0.02	0.7	0.39	2.5
6/2	0.001	0.2	0.022	0.9
6/10	0.001	0.2	0.004	0.3
6/18	0.02	0.2	0	0
6/25	0.001	0.1	0	0
7/2	0.012	0.2	0	0

Cooperating Agencies: Rutgers, The State University of New Jersey, U.S. Department of Agriculture, and Boards of County Commissioners. Rutgers Cooperative Extension, a unit of the Rutgers New Jersey Agricultural Experiment Station, is an equal opportunity program provider and employer.

PEST MANAGEMENT (continued)

Cranberry Fruitworm (CBFW) and Cherry Fruitworm (CFW) Traps:

	CBFW AC		CBFW BC		CFW AC		CFW BC	
	Avg	Max	Avg	Max	Avg	Max	Avg	Max
4/8	0	0	0	0	0.1	1	0.25	1
4/14	0	0	0	0	0	0	0	0
4/20	0	0	0	0	0.2	1	0	0
4/29	0.1	1	0	0	0.9	3	0.25	1
5/7	0	0	0	0	7.1	15	4.5	15
5/13	0.1	1	0	0	9.1	22	10.25	17
5/21	2.3	14	0	0	19.1	40	14.5	20
5/28	2.6	24	3.25	13	12.1	27	13.5	35
6/2	0.70	7	0	0	5.12	15	7.5	17
6/10	1	3	1	2	2.3	8	2.33	4
6/18	0.2	1	1.5	6	1.2	4	2	6
6/25	0.4	4	1	2	0.22	2	0.25	1
7/2	0.5	3	0.5	1	0.11	1	0	0