

Cooperative Extension of Atlantic County 6260 Old Harding Highway Mays Landing, NJ 08330-1533 njaes.rutgers.edu/extension

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# The Blueberry Bulletin A Weekly Update to Growers

July 23, 2024



- Visit the Blueberry Bulletin webpage at <u>njaes.rutgers.edu/blueberry-bulletin</u>
- The 2024 Commercial Blueberry Pest Control Recommendations for New Jersey is available on <a href="https://njaes.rutgers.edu/pubs/">https://njaes.rutgers.edu/pubs/</a>

### **BLUEBERRY CULTURE**

#### Dr. Gary C. Pavlis, Ph.D., Atlantic County Agriculture Agent

**Leaf Tissue Analysis:** Readers of this newsletter are aware that fertilizer recommendations for blueberries are based on leaf analysis. We have found that there is no correlation between the soil analysis and the amount of nutrients that actually enter the blueberry plant. Soil analysis is useful to determine pH, and maintain pH in the proper range, 4.5 - 4.8. Thus, leaf analysis is critical to maintain the blueberry plant in a healthy, efficient, productive condition. <u>Now is the time to take leaf samples for analysis.</u>

Leaf tissue analysis is a way of determining the actual nutritional status of plants. It is an excellent and inexpensive way of finding out if your fertilization program is working or if changes need to be made. The analysis provides information on foliar N, P, K, Ca, Mg, Mn, Fe, Cu, B and Zn levels for the leaves sampled, a fact sheet on what the levels should be for these plant nutrients, and recommendations for corrective measures if needed. Leaf tissue analysis can help pinpoint the source of problems and determine what measures may be needed to ensure proper nutrition of the crop. Interpretation of leaf tissue analysis is most accurate when the soil pH is within the proper range for blueberries, 4.5 - 4.8.

When to Sample: Sample healthy leaves during late July or early August.

<u>How to Sample:</u> Collect 30-50 leaves per sample. Leaves should be from the middle shoot, not old ones/not new ones. Sample different varieties separately, if possible. Collect leaves from as many bushes as possible in the sample area. Gently wash the leaves in tap water to rinse off soil or spray residue. Allow the leaves to air dry until they are brittle before placing into a paper bag.

## The following laboratories can be considered:

Midwest Laboratories Inc 13611 B Street Omaha, NE 68144 Phone # (402) 334-7770 www.midwestlabs.com

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A & L Eastern Agricultural Labs, Inc. 7621 Whitepine Rd. Richmond, VA 23237 (804) 743-9401 www.aleastern.com

Agri-check Inc. Reg. Mail: P.O. Box 1350 UPS: 323 6<sup>th</sup> Street Umatilla, OR 97882-1350 Phone # (541) 922-4894 www.agri-check.com Agricultural Analytical Services Lab The Pennsylvania State University University Park, PA 16802 Phone # (814) 863-0841 www.aasl.psu.edu

Gary C. Pavis. Ph.D. Atlantic County Agricultural Agent

## **PEST MANAGEMENT**

Dr. Cesar Rodriguez-Saona, Extension Specialist in Blueberry Entomology, Rutgers University Dr. Janine Spies, IPM Agent – Fruit Carrie Mansue, Senior Program Coordinator – Fruit

During the week of July 15<sup>th</sup> -19<sup>th</sup>, 170 fields were scouted throughout Burlington and Atlantic Counties. Injury to berries from lepidopteran larvae and plum curculio is insignificant.

Week End-	% Injury of Fruit by		% Injury of Fruit by		% Injury of fruit to		% Injury of fruit to	
ing	LR		PC		CBFW		CFW	
	Avg	Max	Avg	Max	Avg	Max	Avg	Max
5/11	0.17	3.9	0.80	12.7				
5/17	0.23	3.0	1.25	13.20				
5/24	0.10	1.40	0.45	11.30				
6/1	0.02	1.10	0.06	2.90				
6/7	0.001	0.10	0.01	0.70	0.02	0.70		
6/15	0.002	0.20	0.00	0.00	0.003	0.20	0.004	0.10
6/21	0.004	0.30	0.01	0.20	0.003	0.30	0	0
6/29	0.01	0.30	0.004	0.20	0.001	0.10	0	0
7/6	0.004	0.40	0.0	0.0	0.0	0.0	0.0	0.0
7/13	0.002	0.20	0.0	0.0	0.0	0.0	0.0	0.0
7/19	0.002	0.10	0.0	0.0	0.0	0.0	0.0	0.0
LR = Leafroll	er, PC = Plur	n Curculio	, CBFW = Ci	ranberry Fr	uitworm, CFV	V = Cherry	Fruitworm	

**Scale Traps and Infested fruit.** The percentage of infested fruit due to scale is very low, at just 0.07%. Scale activity in traps averaged 14 scale per trap, with a maximum of 50.

Week Ending	% Injury of Fruit by Scale		
	Average	Maximum	
6/7	0.04	0.60	
6/15	0.05	2.10	

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6/21	0.03	1.00
6/29	0.05	1.20
7/6	0.03	0.80
7/13	0.04	1.30
7/19	0.07	1.1

**Aphid Infestation on Lower Shoots.** Aphid populations have decreased to an average shoot infestation of 1%, with a maximum of 18% of shoots infested. As the plant tissue matures, this pest is expected to pose minimal issues for the remainder of the season.

Week Ending	% Lower Shoots Leafroller % Lower Shoots Ap		Aphids	
	Avg	Max	Avg	Max
5/24	0.02	2.00	11.03	52
6/1	0.066	4.0	15.37	72
6/7	0.06	4.00	14.66	96
6/15	0.00	0.00	15.42	88
6/21	0.06	2.0	10.31	88
6/29	0.04	2.0	4.06	78
7/6	0.0	0.0	1.49	18
7/13	0.0	0.0	0.89	22
7/19	0.0	0.0	1.49	18

**Insect traps.** This week, spotted-wing drosophila trap counts have increased. Late-season varieties still require management for SWD due to persistent high populations. In contrast, average oriental beetle trap counts continue to decrease. Trap counts for blueberry maggot and sharp-nosed leafhopper remain very low.

Week Ending	S	SWD		OB		BBM		SNLH	
	Avg	Max	Avg	Max	Avg	Max	Avg	Max	
6/7	19.75	64	300.81	2025	0.037	2	0.0173	0.2	
6/15	28.31	100	707	4050	0.20	15	0.18	3.00	
6/21	33	164	2986	15525	0.04	4	0.18	4	
6/29	71.72	300	5800	16875	0.05	6	0.10	3.00	
7/6	38.82	405	3239	16000	0.02	2	0.02	1.00	
7/13	23.36	117	2654	16000	0.08	2	0.04	1.00	
7/19	54.46	390	688	8100	0.02	2	0	0	
SWD = Spotted-Wing Drosophila, OB = Oriental Beetle, BBM = Blueberry Maggot Fly, SNLH = Sharp- nosed Leafhopper									

#### DISEASES

The Blueberry IPM program collected 35 Bluecrop pints from farms across Atlantic and Burlington Counties to assess the presence of anthracnose. Of the 35 pints, 70% were found to contain anthracnose. The percentage of berries showing anthracnose symptoms ranged from 0.4% to 14% per pint. During the winter months, we will review spray records and provide recommendations for managing anthracnose before the next season.

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