



PENNSYLVANIA VEGETABLE MARKETING & RESEARCH PROGRAM

2301 N. Cameron St., Harrisburg, PA 17110 | 717-694-3596 | pvmp@embarqmail.com | PAVeggies.org

Pennsylvania Vegetable IPM Weekly Update August 5, 2020

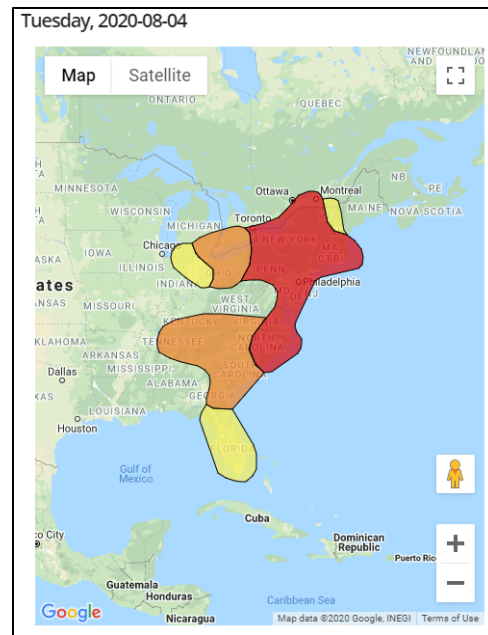
These are cooperative projects involving Penn State University researchers, Penn State Cooperative Extension educators, growers, the Pennsylvania Department of Agriculture, the Pennsylvania Vegetable Marketing and Research Program and the Pennsylvania Vegetable Growers Association.

Vegetable Disease Update

Beth Gugino, Extension Vegetable Pathologist, Penn State University

GENERAL UPDATE ON CUCURBIT DOWNY MILDEW

The northern movement of hurricane Isaias along the east coast created conditions that were highly favorable for the and development of **cucurbit downy mildew** across almost Pennsylvania on Tuesday. Currently downy mildew has been in Blair, Lancaster, Chester Counties with no new reports week. The reports continue to remain primarily on however there was also a report of downy mildew on in Massachusetts on August 4th. Regular scouting is critical. targeted downy mildew specific fungicides should be used cucumber and cantaloupe. Make sure to rotate FRAC codes potential development of fungicide resistance. A number of have asked about downy mildew fungicide recommendations for pumpkins. Keep in mind the strain of mildew that causes disease on pumpkins and winter squash so downy mildew will not move from your cucumbers into pumpkin crop. At this time the use of targeted fungicides is not need until there are more report of downy mildew in Forecast maps are updated three days a week on Monday, and Fridays at <http://cdm.ipmpipe.org>. Keep in mind that coded regions are not only based on the forecasted weather but also centered around confirmed reports of the disease. If you suspect that you may have downy mildew, please let me know by email at bkgugino@psu.edu or by phone at 814-865-7328 or contact your local Extension Office.



coast movement all of confirmed this past cucumber cantaloupe At this time on to minimize growers

downy is different your pumpkins the region. Wednesday the color-conditions

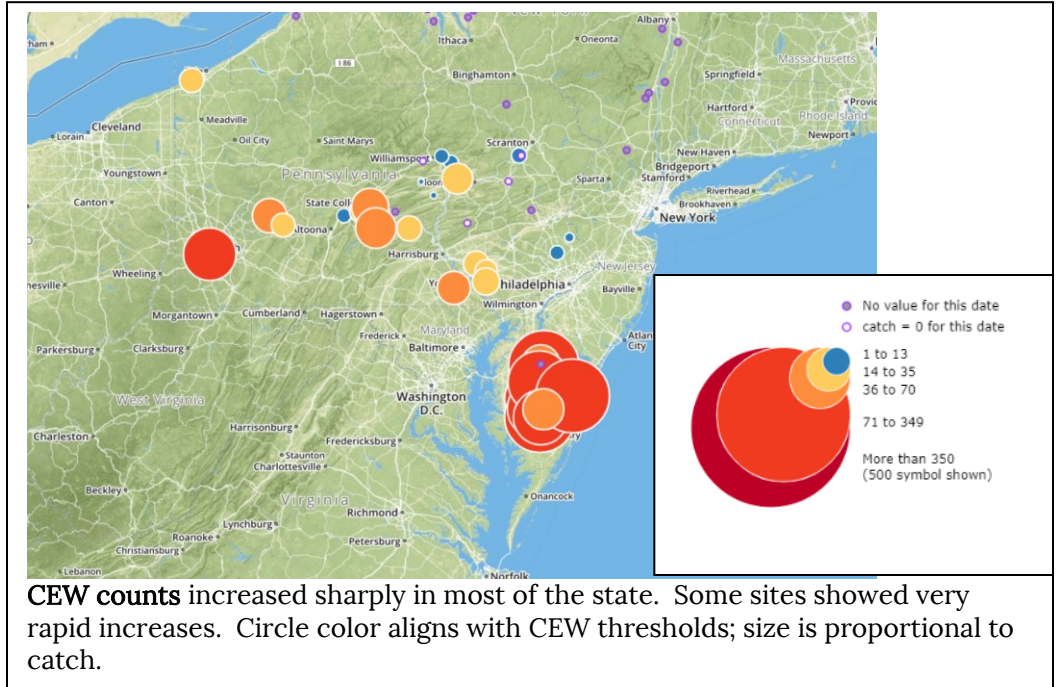
Sweet Corn Insect Pest Monitoring

Shelby Fleischer, Extension Vegetable Entomologist, Penn State University

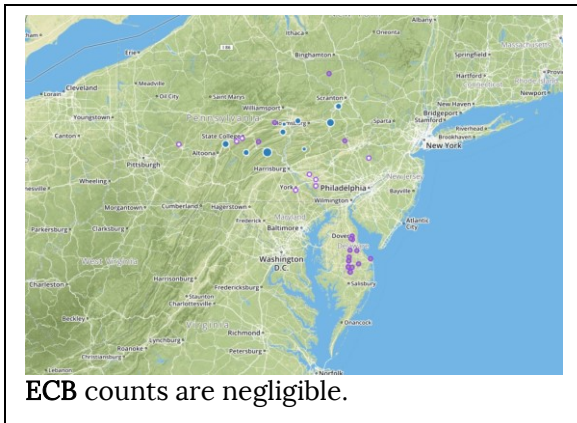
Interactive Maps with Google style view at <http://www.pestwatch.psu.edu/sweetcorn/tool/index.html>



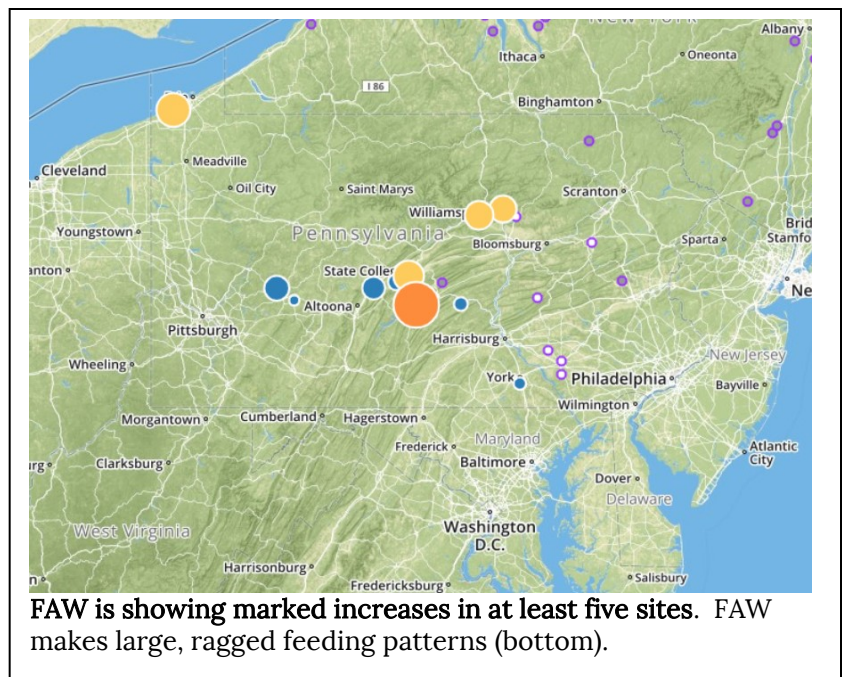
Corn earworm (CEW) counts rose, in some cases dramatically. Fifteen of 28 sites (>50%) are above threshold, and several suggest tightening spray intervals.



CEW counts increased sharply in most of the state. Some sites showed very rapid increases. Circle color aligns with CEW thresholds; size is proportional to catch.



ECB counts are negligible.



FAW is showing marked increases in at least five sites. FAW makes large, ragged feeding patterns (bottom).



Pyrethroid resistance can be a problem. Avoid spraying or use materials with a low bee toxicity rating ('Bee TR' in the Veg Guide)-such as Coragen - when bees are working tassels. (Photo: Tom Ford)

TRAP COUNTS - Moving average for the last 7 days. The catch/number of nights trapping, divided by the number of nights with data, times 7. Weeks where all the average-catch-per-night values are nulls are treated as if no data exist for that week. Gray = no trap for that site. Pink-to-orange are sites above threshold levels.

County	Trap Name	CEW			ECB			FAW		
		22-Jul	29-Jul	5-Aug	22-Jul	29-Jul	5-Aug	22-Jul	29-Jul	5-Aug
Blair	Tyrone	3	10	7	0	7	4	0	2	10
Bucks	Bedminster	3	18	3	0	0	0			
Centre	State College	15	11	46	---	0	0	5	11	18
Centre	Rock Springs	4	6	18	---	0	0	1	2	5
Clinton	Loganton	6	11	1	14	---	---			
Erie	Fairview	14	12	12				3	1	7
Erie	Lake City	6	23	20				4	11	22
Indiana	Brush Valley	3	3	19				0	0	2
Indiana	Creekside	---	14	40	---	---	0	---	2	12
Juniata	Port Royal	15	11	23	28	17	5	4	2	4
Lackawanna	Ransom	2	0	0	7	2	3			
Lancaster	Landisville	26	6	22	5	4	0	0	0	0
Lancaster	Neffsville	8	5	17	2	1	0	0	0	0
Lancaster	New Danville	10	9	25	4	3	0	0	0	0
Lehigh	Germansville	2	3	---	0	0	---	0	0	---
Luzerne	Drums	0	3	0	0	3	5	0	0	0
Luzerne	Plains	0	0	8	0	0	2			
Lycoming	Linden	12	0	---				77	16	---
Lycoming	Montoursville	11	7	---				0	14	---
Lycoming	Muncy	5	7	---				0	0	---
Mifflin	Belleville	25	17	55	6	5	3	5	5	40
Montgomery	Souderton	10	13	7						
Montour	Washingtonville	3	5	32	1	5	3			
Schuylkill	Tower City	8	12	0	0	7	1	0	0	0
Susquehanna	Mountrose	5	---	---	5	---	---	0	---	---
Union	New Berlin	1	0	1	2	4	3			
Union	Lewisburg				0	0	1			
Washington	Venetia	29	48	92						
York	York	11	6	37	0	1	0	0	4	3

THRESHOLDS: Reproductive (tassel/silk) and late vegetative corn attracts moths. Shorten spray schedules when populations increase. If CEW is not a problem, then consider ECB.

	CEW			ECB	
	Catch/Week	Spray Frequency		Catch/Week	Spray Frequency
Very very low	1-13	7 - or no spray		<15	7 - or no spray
Very low	14-35	5-6		15-35	6
Low	36-70	4-5		36-70	5
Moderate	71-349	3-4		>70	4
High	>350	2-3			