



PENNSYLVANIA VEGETABLE MARKETING & RESEARCH PROGRAM

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Pennsylvania Vegetable IPM Weekly Update

June 28, 2023

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.

PestWatch Report - June 28, 2023

MOTH CATCH STEADY THROUGH PENNSYLVANIA

Glen Bupp and Leah Fronk, Penn State Extension

More sites began trapping this week across Pennsylvania. Sites in Franklin, Lancaster, and Mifflin counties are experiencing weekly catches of 36-70 moths which means a spray interval of 4-5 days would be suggested for corn that's tasseling or silking in those areas. Most of the state continues to see steady but low catch numbers. As a reminder, corn that is tasseling or silking is very attractive to corn earworm, as eggs are laid on silks, and control must be achieved while larvae are recently hatched before they've entered the ear.



Fig 1. Corn earworm begin feeding at the ear tip and leave moist frass behind.

Once the spray threshold is reached, you can consider products from the pyrethroid class, diamide class, or spinosyn class for effective control. We tend to see the best efficacy from non-pyrethroid products such as Coragen, Blackhawk, and Radiant, as pyrethroid resistance has increased in migrating corn earworm populations. However, we tend to see more resistance later in the season than now, as moths migrate from further south in the United States up to our region. Diamides and spinosyns do not provide effective control of other pests such as sap beetles, brown marmorated stink bug, Japanese beetles, or adult corn rootworms. If you're seeing these pests as you scout your corn, consider adding a pyrethroid, or the premix Besiege to control those.

Zero fall armyworm have been caught this season. By managing for corn earworm, fall armyworm should be adequately controlled, as well.

Average weekly catch – 7-day moving average. The average catch per night (total catch, divided by the number of nights trapping), If no data exist for that week, null is reported.

COUNTY	SITENAME	CEW	
		21-Jun	28-Jun
Bucks	Doylestown	4	7
Butler	Bill Huffman	--	10
Centre	Centre County - Fruit Farm	--	2
Centre	Loganton	--	3
Centre	Rock Springs	--	1
Erie	Lake City 1	--	27
Erie	Lake City 2	--	1
Franklin	Waynesboro	25	68
Indiana	Indiana	16	--
Juniata	Port Royal	7	12
Lancaster	New Danville	30	57
Lancaster	Landisville	--	9
Lancaster	Neffsville	9	5
Luzerne	Drums	0	5
Mifflin	Belleville	18	39
Susquehanna	LaRue's Montrose	--	0
Susquehanna	LaRue's Montrose	--	1
Washington	Venetia	14	11
York	York	0	6

THRESHOLDS Reproductive (tassel/silk) and late vegetative corn attract moths. Shorten spray schedules when populations increase.

Threshold based on CEW	Catch per week	Spray Frequency
Almost Absent	1-13	7+
Very low	14-35	5-6
Low	36-70	4-5
Moderate	71-349	3-4
High	>350	2-3