Pest & Crop

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Insects, Mites, And Nematodes

Black Cutworm Spring Arrival Met With Hostile Welcoming - (*Christian Krupke and John Obermeyer*)

- Black cutworm moths arrived before recent freezing nights.
- Many exposed moths/eggs likely froze during cold snap.
- Moth arrival has just begun so stay tuned.
- Don't rely on insecticide-treated seed to prevent economic damage.

Many of our pheromone trapping cooperators throughout the state captured a significant number of black cutworm moths over the April 12-13 warm spell, just before the recent freezing temperatures - refer to the "Black Cutworm Adult Pheromone Trap Report" for details. The pleasant weather blew in from the southwestern portions of the country also brought a mass of moths. However, the majority of those early arrivals and any eggs laid have likely perished; being a southern migrant they aren't cold-hardy as our overwintering species (e.g., variegated cutworm). This is good news, although more moths are soon to arrive.

Moth arrival, along with the use of heat units to predict the beginning of larval activity, gives us an indication of potential severity of the problem and locations of concern. Thus, we are able to predict with some degree of accuracy when and where crop damage is likely to occur based on these data.

Overnight snow and zero black cutworm moths!

We will track heat unit accumulations and predicted damage for your area in future issues of the *Pest&Crop*.

Because of the sporadic outbreak nature of this pest, the tried, true, and economic approach to black cutworm management is to scout cornfields, determine infestation and damage levels, and use a rescue treatment, if needed. Producers using insecticide-treated seed may have a false sense of security concerning black cutworm control.

The systemic activity of these newer insecticides during the seedling stage should help suppress the smallest larvae feeding on plants. However, this protection is short-lived – as caterpillars grow and the concentration of seed treatment insecticides in plant tissues declines - and fields attracting egg-laying moths during multiple flights will likely experience significant damage and stand losses. During periods of cool temperatures and slow seedling growth uptake of the insecticide may be negligible, leaving the plant even more vulnerable to attack. In short, scout fields if you are seeing high adult moth counts!

| County | Cooperator | BCW Trapped | | County | Cooperator | BCW Trapped | |
		Wk 1	Wk 2			Wk 1	Wk 2
				Black Cutworm Adult Pheromone Trap Report			
				Week 1 = 4/3/14 - 4/9/14 Week 2 = 4/10/14 - 4/16/14			
Adams	Kaminsky/New Era Ag	0	1	Knox	Bower/Ceres Solutions/Frichton	0	0
Adams	Roe/Mercer Landmark	0	0	Knox	Bower/Ceres Solutions/Freelandville	0	0
Allen	Anderson/Syngenta Seed	0	0	Knox	Bower/Ceres Solutions/Vincennes	0	2
Allen	Gynn/Southwind Farms	0	0	Knox	Bower/Ceres Solutions		0
Benton	Babcock/Ceres Solutions	0	0	Knox	Hoke/SWPAC	0	0
Boone	Campbell/Beck's Hybrids	0	1	Lake	Kleine/Kleine Farms	0	0
Boone	Carrell/Lamb Farms	0	24*	Lake	Moyer/Moyer Seed Sales - Shelby	0	21*
Clark	Hynes/Clark Co. CES	0	2	Lake	Moyer/Moyer Seed Sales - Schneider	0	7
Clay	Bower/Ceres Solutions - Brazil	0	0	LaPorte	Barry/Kingsbury Elevator	0	4
Clay	Bower/Ceres Solutions - Bowling Green	0	0	LaPorte	Rocke/Agri-Management Solutions	0	6
Clinton	Foster/Purdue Entomology	1	1	Miami	Early/Pioneer		0
DeKalb	Hoffman/ATA Solutions	1	3	Montgomery	Stine/Nicholson Consulting		0
Dubois	Eck/Dubois Co. CES	0	7	Newton	Moyer/Moyer Seed Sales	0	3
Elkhart	Kaufman/Crop Tech Inc.	0	28*	Porter	Leuck/PPAC	0	1
Fayette	Schelle/Falmouth Farm Supply	0	2	Putnam	Nicholson/Nicholson Consulting	0	2
Fountain	Mroczkiewicz/Syngenta	0	9*	Randolph	Boyer/DPAC	0	2
Fulton	Jenkins/N. Central Coop - Rochester	0	4	Rush	Schelle/Falmouth Farm Supply	0	2
Fulton	Jenkins/N. Central Coop - Kewanna	0	15	Starke	Wickert/Wickert Agronomy Services	0	0
Gibson	Schmitz/Gibson Co. CES			Sullivan	Bower/Ceres Solutions - Farmersburg	0	1
Hamilton	Campbell/Beck's Hybrids	1	27*	Sullivan	Bower/Ceres Solutions - Sullivan W		
Hendricks	Nicholson/Nicholson Consulting	0	2	Sullivan	Bower/Ceres Solutions - Sullivan E	0	11*
Henry	Schelle/Falmouth Farm Supply	0	0	Sullivan	Bower/Ceres Solutions - New Lebanon	0	0
Jasper	Overstreet/Jasper Co CES	0	0	Tippecanoe	Bower/Ceres Solutions	1	3
Jasper	Ritter/Brodbeck Seeds - 3 E	0	0	Tippecanoe	Nagel/Ceres Solutions	1	38*
Jasper	Ritter/Brodbeck Seeds - 8 E	0	0	Tippecanoe	Obermeyer/Purdue Entomology	0	4
Jay	Shrack/RanDel AgriServices	0	5	Tippecanoe	Quinton/Monsanto	0	9
Jennings	Bauerle/SEPAC	0	9*	Whitley	Walker/NEPAC	0	13*

*=Intensive Capture...this occurs when 9 or more moths are caught over a 2-night period
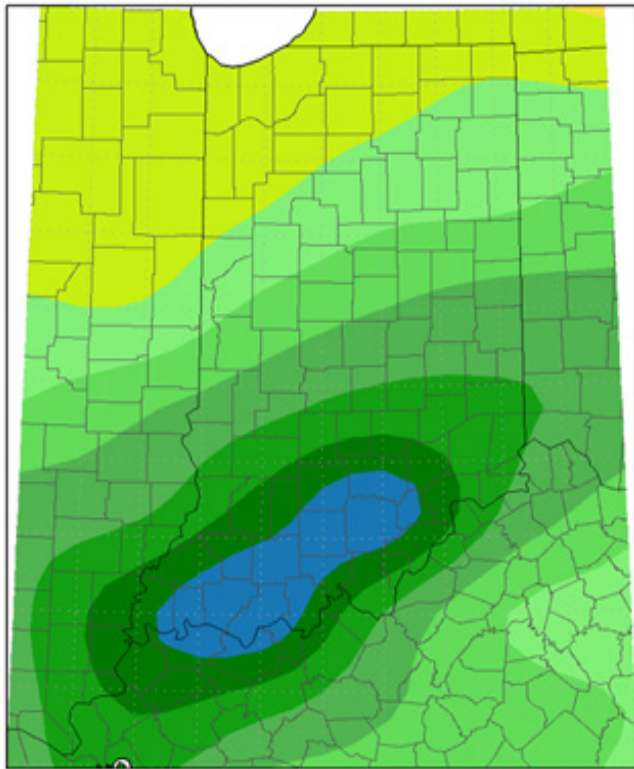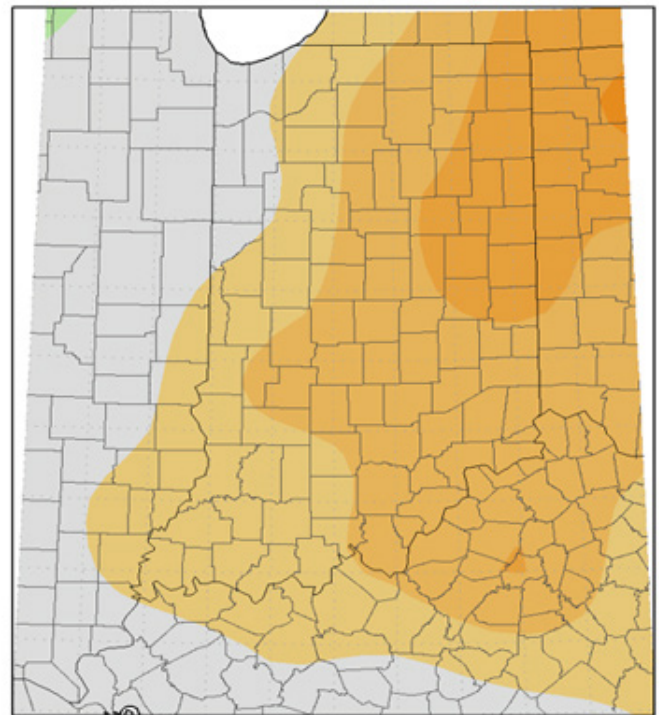
Armyworm Pheromone Trap Report - (*John Obermeyer*)

County/Cooperator	Wk 1 = 4/3/14 - 4/9/14; Wk 2 = 4/10/14 - 4/16/14											
	1	2	3	4	5	6	7	8	9	10	11	12
Dubois/SIPAC Ag Center												
Jennings/SEPAC Ag Center	0	0										
Knox/SWPAC Ag Center	0	0										
LaPorte/Pinney Ag Center	0	0										
Lawrence/Feldun Ag Center	1	8										
Randolph/Davis Ag Center	0	2										
Tippecanoe/TPAC Ag Center												
Whitley/NEPAC Ag Center	0	1										

Weather Update

Accumulated Precipitation (in)
March 18, 2014 to April 16, 2014

Indiana State Climate Office   www.iclimate.org
Purdue University, West Lafayette, Indiana
email: iclimate@purdue.edu

Average Temperature (°F): Departure from Mean
April 10, 2014 to April 16, 2014

Mean period is 1981–2010.

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