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Pest & Crop Newsletter

Purdue Cooperative Extension Service

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Issue 18, July 31, 2015 • USDA-NIFA Extension IPM Grant

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INSECTS, MITES & NEMATODES

Western Bean Cutworm Flight Declining – (Christian Krupke and John Obermeyer) –

- Moth flight past peak, slowing down.
- Egg laying and egg hatch should be peaking now.
- Scout for egg masses and hatched larvae in high-risk fields.

The western bean cutworm (WBC) trapping season continues, and from the numbers being reported this past week, we are past the peak moth flight. A large percentage of this year's eggs have been laid and likely hatched, meaning scouting efforts should switch to the small larvae migrating to areas of protection, such as the whorl, before moving to the ear when they get larger. Use this year's trap

catches (see following trap report) and recent history as your guide for prioritizing scouting areas. As you view the “Western Bean Cutworm Adult Pheromone Trap Report”, notice the variability of moth captures, even from traps within close proximity to each other. Although the relationship between trap catches and damage is not particularly strong (i.e., high trap counts do not always mean high damage), traps are a good timing mechanism and presence/absence indicator. When they spike suddenly, it’s time to scout. Fields near largest trap catches should be prioritized for scouting. But that’s about as far as we can take trap counts in assessing damage potential. Areas/fields with damage last year will likely be at most risk this year.



Newly hatched western bean cutworm and whorl leaf damage.



Young western bean cutworm larvae in leaf axil.

Many Bt-traited corn hybrids offer excellent control of WBC and will not require scouting. However, some Bt hybrids do not offer any protection, nor do most varieties of specialty corn, e.g., popcorn, waxy, etc. Scouting is a matter of walking fields and looking for egg masses, generally laid on the top surface of the plant's uppermost, upright leaves. Concentrate your efforts on pre-tassel/early pollinating corn; this growth stage is preferred by female moths as the young larvae initially feed on pollen. This will be difficult this year because of the field variability due to heavy rains. If more than 5% of plants surveyed have egg masses/live larvae, treatment is advised. If needed, too-early insecticide applications are better than late ones – pyrethroid insecticides will offer enough residual activity in most cases for a few days of killing the tiny hatching larvae as they travel on their way into the plant's whorl or leaf axils. Happy Scouting!

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VIDEO: WBC Scouting Comparison: Spray vs. Non-Spray – (Christian Krupke) –



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2015 Corn Earworm Trap Report

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recent catch
information**



Corn Earworm Trap Report.

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Western Bean Cutworm Pheromone Trap Report

County:

Adams

Cooperator:	Kaminsky/New Era Ag
Wk 1	0
Wk 2	0
Wk 3	0
Wk 4	2
Wk 5	3
Wk 6	1
County:	Adams
Cooperator:	Roe/Mercer Landmark
Wk 1	0
Wk 2	0
Wk 3	0
Wk 4	0
Wk 5	0
Wk 6	2
County:	Allen
Cooperator:	Anderson/Syngenta Seed
Wk 1	0
Wk 2	0
Wk 3	0
Wk 4	5
Wk 5	3
Wk 6	7
County:	Allen
Cooperator:	Gynn/Southwind Farms
Wk 1	0
Wk 2	0
Wk 3	1

Wk 4	2
Wk 5	12
Wk 6	7
County:	Allen
Cooperator:	Kneubuhler/G&K Concepts
Wk 1	0
Wk 2	0
Wk 3	0
Wk 4	0
Wk 5	5
Wk 6	2
County:	Bartholomew
Cooperator:	Bush/Pioneer Hybrids
Wk 1	0
Wk 2	0
Wk 3	0
Wk 4	0
Wk 5	0
Wk 6	0
County:	Boone
Cooperator:	Campbell/Beck's Hybrids
Wk 1	0
Wk 2	0
Wk 3	0
Wk 4	0
Wk 5	0
Wk 6	0

County:	Clay
Cooperator:	Bower/Ceres Solutions/Brazil
Wk 1	0
Wk 2	0
Wk 3	0
Wk 4	0
Wk 5	0
Wk 6	0
County:	Clay
Cooperator:	Bower/Ceres Solutions/Bowling Green
Wk 1	0
Wk 2	0
Wk 3	0
Wk 4	0
Wk 5	0
Wk 6	0
County:	Clinton
Cooperator:	Emanuel/Boone Co. CES
Wk 1	0
Wk 2	0
Wk 3	0
Wk 4	1
Wk 5	1
Wk 6	0
County:	Clinton
Cooperator:	Foster/Purdue Entomology
Wk 1	
Wk 2	0

Wk 3	0
Wk 4	0
Wk 5	5
Wk 6	0
County:	DeKalb
Cooperator:	Hoffman/ATA Solutions
Wk 1	
Wk 2	0
Wk 3	0
Wk 4	10
Wk 5	114
Wk 6	12
County:	Dubois
Cooperator:	Eck/Purdue CES
Wk 1	0
Wk 2	0
Wk 3	0
Wk 4	0
Wk 5	1
Wk 6	0
County:	Elkhart
Cooperator:	Kauffman/Crop Tech Inc.
Wk 1	1
Wk 2	1
Wk 3	0
Wk 4	59
Wk 5	89

Wk 6	4
County:	Fayette
Cooperator:	Schelle/Falmouth Farm Supply Inc.
Wk 1	
Wk 2	0
Wk 3	0
Wk 4	0
Wk 5	0
Wk 6	0
County:	Fountain
Cooperator:	Mroczkiewicz/Syngenta
Wk 1	0
Wk 2	0
Wk 3	14
Wk 4	52
Wk 5	2
Wk 6	0
County:	Fulton
Cooperator:	Jenkins/N. Central Coop-Rochester
Wk 1	0
Wk 2	2
Wk 3	262
Wk 4	679
Wk 5	701
Wk 6	36
County:	Fulton
Cooperator:	Jenkins/N. Central Coop-Kewana
Wk 1	1

Wk 2	2
Wk 3	121
Wk 4	595
Wk 5	362
Wk 6	42
County:	Gibson
Cooperator:	Schmitz/Gibson Co. CES
Wk 1	0
Wk 2	0
Wk 3	0
Wk 4	0
Wk 5	0
Wk 6	
County:	Hamilton
Cooperator:	Campbell/Beck's Hybrids
Wk 1	0
Wk 2	0
Wk 3	0
Wk 4	0
Wk 5	0
Wk 6	0
County:	Hamilton
Cooperator:	Truster/Reynolds Farm Equipment
Wk 1	0
Wk 2	0
Wk 3	0
Wk 4	0

Wk 5	0
Wk 6	1
County:	Hendricks
Cooperator:	Nicholson/Nicholson Consulting
Wk 1	0
Wk 2	0
Wk 3	0
Wk 4	0
Wk 5	1
Wk 6	0
County:	Henry
Cooperator:	Schelle/Falmouth Farm Supply Inc., Millville
Wk 1	
Wk 2	0
Wk 3	0
Wk 4	0
Wk 5	0
Wk 6	0
County:	Jasper
Cooperator:	Overstreet/Purdue CES
Wk 1	0
Wk 2	0
Wk 3	2
Wk 4	51
Wk 5	64
Wk 6	12
County:	Jasper
Cooperator:	Ritter/Brodbeck Seeds

Wk 1	1
Wk 2	0
Wk 3	
Wk 4	
Wk 5	
Wk 6	
County:	Jay
Cooperator:	Boyer/Davis PAC
Wk 1	0
Wk 2	0
Wk 3	0
Wk 4	0
Wk 5	0
Wk 6	
County:	Jay
Cooperator:	Shrack/Ran Del Agri Services
Wk 1	0
Wk 2	0
Wk 3	0
Wk 4	0
Wk 5	0
Wk 6	0
County:	Jay
Cooperator:	Temple/Jay County CES
Wk 1	
Wk 2	2
Wk 3	0

Wk 4	
Wk 5	
Wk 6	
County:	Jennings
Cooperator:	Bauerle/SEPAC
Wk 1	0
Wk 2	1
Wk 3	0
Wk 4	0
Wk 5	0
Wk 6	0
County:	Knox
Cooperator:	Bower/Ceres Solutions/Freelandville
Wk 1	
Wk 2	0
Wk 3	0
Wk 4	0
Wk 5	0
Wk 6	0
County:	Knox
Cooperator:	Bower/Ceres Solutions/Vincennes
Wk 1	
Wk 2	0
Wk 3	0
Wk 4	0
Wk 5	0
Wk 6	0
County:	Knox

Cooperator:	Bower/Ceres Solutions/Frichton
Wk 1	
Wk 2	0
Wk 3	0
Wk 4	0
Wk 5	0
Wk 6	0
County:	Lake
Cooperator:	Kleine/Kleine Farms
Wk 1	
Wk 2	0
Wk 3	2
Wk 4	14
Wk 5	7
Wk 6	4
County:	Lake
Cooperator:	Moyer/Dekalb Hybrids, Shelby
Wk 1	0
Wk 2	2
Wk 3	7
Wk 4	19
Wk 5	165
Wk 6	13
County:	Lake
Cooperator:	Moyer/Dekalb Hybrids, Schneider
Wk 1	1
Wk 2	0

Wk 3	4
Wk 4	67
Wk 5	456
Wk 6	76
County:	LaPorte
Cooperator:	Rocke/Agri-Mgmt Solutions, Wanatah
Wk 1	0
Wk 2	5
Wk 3	74
Wk 4	141
Wk 5	142
Wk 6	10
County:	LaPorte
Cooperator:	Rocke/Agri-Mgmt Solutions, LaCrosse
Wk 1	0
Wk 2	2
Wk 3	135
Wk 4	350
Wk 5	110
Wk 6	5
County:	Miami
Cooperator:	Early/Pioneer Hybrids
Wk 1	
Wk 2	0
Wk 3	6
Wk 4	141
Wk 5	86
Wk 6	7

County:	Miami
Cooperator:	Myers/Myers Ag Service
Wk 1	
Wk 2	2
Wk 3	1
Wk 4	9
Wk 5	
Wk 6	
County:	Montgomery
Cooperator:	Stine/Nicholson Sonsulting
Wk 1	0
Wk 2	0
Wk 3	0
Wk 4	11
Wk 5	3
Wk 6	0
County:	Newton
Cooperator:	Moyer/Dekalb Hybrids, Lake Village
Wk 1	0
Wk 2	1
Wk 3	3
Wk 4	13
Wk 5	38
Wk 6	8
County:	Porter
Cooperator:	Leuck/PPAC
Wk 1	0

Wk 2	1
Wk 3	10
Wk 4	56
Wk 5	87
Wk 6	4
County:	Putnam
Cooperator:	Nicholson/Nicholson Consulting
Wk 1	0
Wk 2	0
Wk 3	0
Wk 4	
Wk 5	
Wk 6	
County:	Randolph
Cooperator:	Boyer/DPAC
Wk 1	0
Wk 2	0
Wk 3	0
Wk 4	2
Wk 5	0
Wk 6	
County:	Rush
Cooperator:	Schelle/Falmouth Farm Supply Inc.
Wk 1	
Wk 2	0
Wk 3	0
Wk 4	0
Wk 5	0

Wk 6	0
County:	Shelby
Cooperator:	Simpson/Simpson Farms
Wk 1	0
Wk 2	0
Wk 3	2
Wk 4	0
Wk 5	1
Wk 6	0
County:	Sullivan
Cooperator:	Bower/Ceres Solutions/Sullivan
Wk 1	
Wk 2	0
Wk 3	0
Wk 4	3
Wk 5	
Wk 6	2
County:	Tippecanoe
Cooperator:	Bower/Ceres Solutions
Wk 1	
Wk 2	2
Wk 3	15
Wk 4	30
Wk 5	15
Wk 6	2

County:	Tippecanoe
Cooperator:	Nagel/Ceres Solutions
Wk 1	0
Wk 2	0
Wk 3	0
Wk 4	1
Wk 5	0
Wk 6	
County:	Tippecanoe
Cooperator:	Obermeyer/Purdue Entomology
Wk 1	
Wk 2	0
Wk 3	0
Wk 4	0
Wk 5	1
Wk 6	0
County:	Tippecanoe
Cooperator:	Westerfeld/Monsanto
Wk 1	0
Wk 2	0
Wk 3	0
Wk 4	0
Wk 5	0
Wk 6	0
County:	Whitley
Cooperator:	Walker/NEPAC
Wk 1	0

Wk 2	0
Wk 3	2
Wk 4	47
Wk 5	119
Wk 6	49

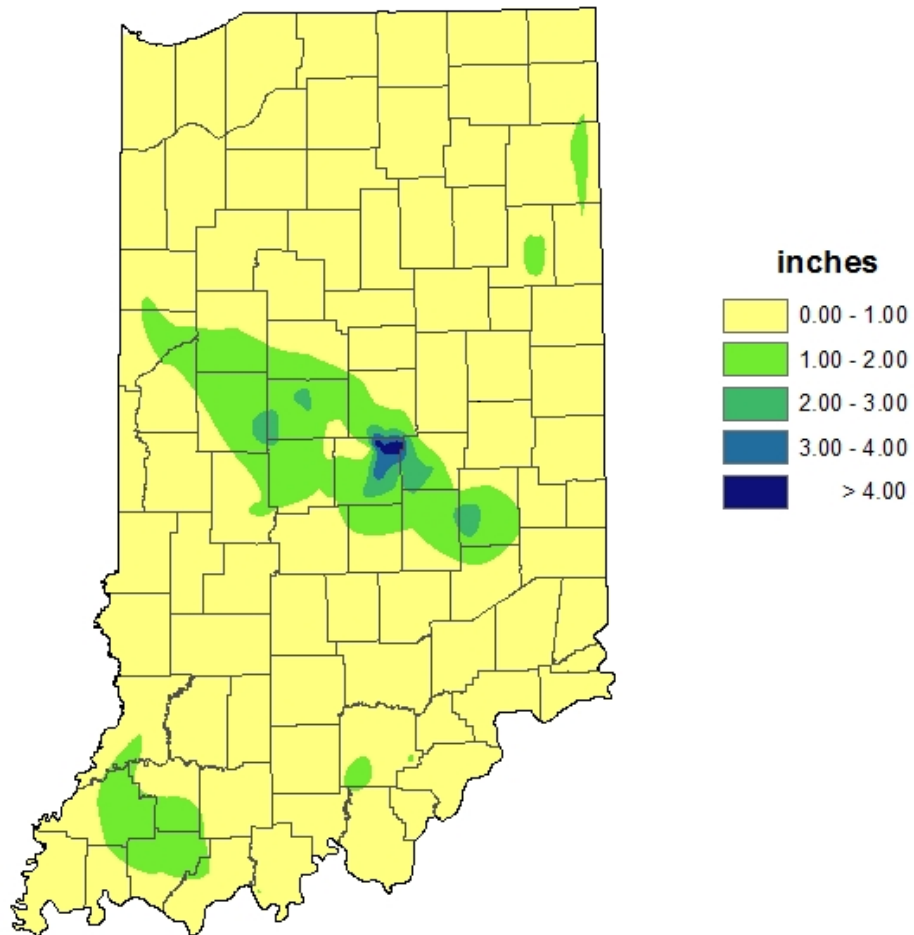
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WEATHER UPDATE

Precipitation

**Total Precipitation
July 23 - 29, 2015
CoCoRaHS network
(321 stations)**

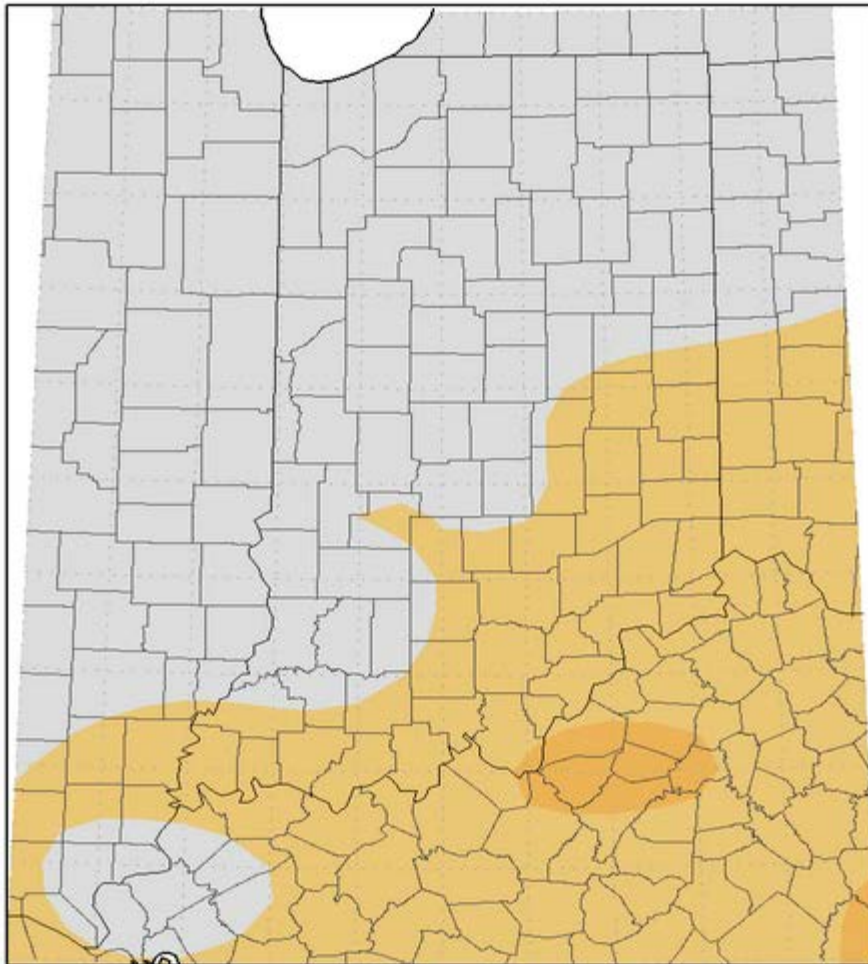


Analysis by Indiana State Climate Office
Web: <http://www.iclimatc.org>

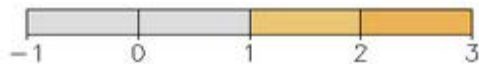
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Temperature

Average Temperature (°F): Departure from Mean
April 30, 2015 to July 28, 2015



Mean period is 1981–2010.



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

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Pest&Crop Newsletter

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