

PURDUE
UNIVERSITY.

Pest & Crop Newsletter

Purdue Cooperative Extension Service

IN THIS ISSUE

Issue 3, April 17, 2015 • USDA-NIFA Extension IPM Grant

Insects, Mites, and Nematodes

[Black Cutworm Moths Blowing Into Indiana](#)

[Black Cutworm Adult Pheromone Trap Report](#)

[Armyworm Pheromone Trap Report](#)

[Plant Diseases](#)

[Managing Wheat by Growth Stage](#)

[2015 Purdue Crop Scouting Competition](#)

[Weather Update](#)

[Moisture and Temperature Accumulations](#)



INSECTS, MITES, & NEMATODES

Black Cutworm Moths Blowing Into Indiana – (Christian Krupke and John Obermeyer) –

- Recent storm systems have brought black cutworms along for the ride.
- Timing of scouting can be improved by tracking heat unit accumulations, combined with pheromone trap catches.
- Scouting fields and treating when necessary is more reliable than preventative applications of

insecticides.

- **Don't rely on insecticide-treated seed to prevent economic damage.**

Many of our dutiful trapping cooperators throughout the state captured black cutworm moths this past week - refer to the "Black Cutworm Adult Pheromone Trap Report" for captures. This recent flush of moths is attributed to storms that have kept us out of the fields.

Moth arrival, along with the use of heat units to predict the beginning of larval activity, gives us an indication of the 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 most likely to occur based on this information. Refer to future issues of the Pest&Crop as we track heat unit accumulations and predicted damage in your area.

Here's a question we are often asked: Should one treat for black cutworm before or at planting? Because of the sporadic outbreak nature of this pest, the tried, true, and economic approach to black cutworm management is to scout fields, determine infestation and damage levels, and use a rescue treatment, if needed. Foliar insecticides are effective, especially when applied early (i.e. while cutworms are small and not yet "cutting"). Producers using insecticide-treated seed may have a false sense of security concerning black cutworm control. The systemic activity of these insecticides during the seedling stage should help suppress small larvae feeding on plants. Larger larvae, as with all insects, are more difficult to kill. Coupled with the fact that there is less insecticide in plant tissues at this time, efficacy declines as the spring wears on. The black cutworm flight and egg-laying period spans several weeks and green or weedy fields may attract egg-laying moths over multiple flights. These fields can experience significant damage and stand losses, even when treated seed is used.



Key identifier of the black cutworm moth



Significant night's catch of black cutworm moths, notice how beat up they are from their trip

[back to top](#)

Black Cutworm Adult Pheromone Trap Report

County	Cooperator	BCW Trapped	
		Week 1 4/2/15 - 4/8/15	Week 2 4/9/15 - 4/15/15

Adams	Kaminsky/New Era Ag	0	14
Adams	Roe/Mercer Landmark	0	7
Allen	Anderson/Syngenta Seed	0	2
Allen	Gynn/Southwind Farms	0	1
Allen	Kneubuhler/G&K Concepts	0	3
Bartholomew	Bush/Pioneer Hybrids	0	0
Boone	Campbell/Beck's Hybrids	0	2
Clay	Bower/Ceres Solutions, Brazil	0	
Clay	Bower/Ceres Solutions, Bowling Green	0	
Clinton	Emanuel/Boone Co. CES	0	0
Clinton	Foster/Purdue Entomology	0	0
DeKalb	Hoffman/ATA Solutions	0	0
Dubois	Eck/Purdue CES	3	27*
Elkhart	Kauffman/Crop Tech Inc.	1	
Fayette	Schelle/Falmouth Farm Supply Inc.	3	42*
Fountain	Mroczkiewicz/Syngenta	2	2
Fulton	Jenkins/N. Central Coop-Rochester	1	15
Fulton	Jenkins/N. Central Coop-Kewana	0	15
Gibson	Schmitz/Gibson Co. CES		0
Hamilton	Campbell/Beck's Hybrids	0	10*
Hamilton	Truster/Reynolds Farm Equipment		1
Hendricks	Nicholson/Nicholson Consulting	1	24*
Henry	Schelle/Falmouth Farm Supply Inc., Millville	1	4
Jasper	Overstreet/Purdue CES	0	0
Jasper	Ritter/Brodbeck Seeds		11
Jay	Boyer/Davis PAC	0	1
Jay	Shrack/Ran Del Agri Services	0	1

Jay	Temple/Jay County CES	0	1
Jennings	Bauerle/SEPAC	2	5
Knox	Bower/Ceres Solutions, Freelandville	0	0
Knox	Bower/Ceres Solutions, Vincennes	0	4
Knox	Bower/Ceres Solutions, Oaktown	0	1
Lake	Kleine/Kleine Farms	30	1
Lake	Moyer/Dekalb Hybrids, Shelby	0	4
Lake	Moyer/Dekalb Hybrids, Schneider	0	5
LaPorte	Barry/Kingsbury Elevator	0	1
LaPorte	Rocke/Agri-Mgmt Solutions		
Miami	Early/Pioneer Hybrids	0	0
Miami	Myers/Myers Ag Service	0	0
Montgomery	Stine/Nicholson Sonsulting		
Newton	Moyer/Dekalb Hybrids	1	1
Porter	Leuck/PPAC	1	4
Putnam	Nicholson/Nicholson Consulting	0	5
Randolph	Boyer/DPAC	2	0
Rush	Schelle/Falmouth Farm Supply Inc.	0	0
Shelby	Simpson/Simpson Farms	1	6
Sullivan	Bower/Ceres Solutions, Farmersburg	0	0
Sullivan	Bower/Ceres Solutions, Sullivan E	0	14*
Sullivan	Bower/Ceres Solutions, Sullivan W	0	4
Tippecanoe	Bower/Ceres Solutions	0	5
Tippecanoe	Nagel/Ceres Solutions	0	21*
Tippecanoe	Obermeyer/Purdue Entomology	0	5
Tippecanoe	Westerfeld/Monsanto	1	1
Whitley	Walker/NEPAC	1	29*

* = Intensive Capture...this occurs when 9 or more moths are caught over a 2-night period

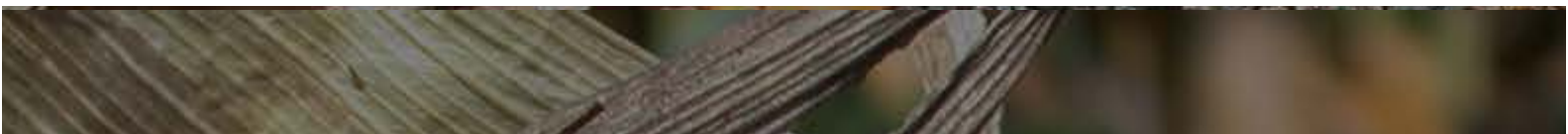
[back to top](#)

Armyworm Pheromone Trap Report

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

Wk 1 = 4/2/15 - 4/8/15; Wk 2 = 4/9/15 - 4/15/15

[back to top](#)





PLANT DISEASES

Managing Wheat by Growth Stage – (Kiersten Wise) –

The spring is off to a slow start, but wheat is progressing and now is a great time to review the Purdue Extension publication ID-422 “Managing Wheat by Growth Stage”. Herbicide, fungicide, and fertilizer applications are most efficacious when applied at the correct growth stage. This publication describes the key wheat growth stages and provides images to help with accurate growth stage identification. The bulletin also provides a printable one-page table that outlines management decisions by growth stage.

[back to top](#)

2015 Purdue Crop Scouting Competition – (Kiersten Wise, Corey Gerber, and John Obermeyer) –

The second annual Purdue Crop Scouting Competition will be held on August 20th at the Purdue Diagnostic Training and Research Center (DTC) at the Agronomy Center for Research and Education (ACRE) in West Lafayette, IN

Indiana high school student teams of 4-6 individuals, and adult team leaders are eligible to participate in the competition. The primary goal of the Crop Scouting Competition is to educate

youth about agriculture and Integrated Pest Management (IPM) concepts.

Five teams competed at last year's event, including Connersville FFA, South Newton FFA, Eastern Hancock FFA, South Central FFA and Rochester FFA. These teams participated in field scouting exercises in both corn and soybeans and focused on basic crop agronomics, pest ID (weeds, insects, diseases) and scouting techniques. The student teams and coaches enjoyed the hands-on approach to the contest, and appreciated the interaction with Purdue specialists. The experience was beneficial to helping students understand the "real-world" agricultural applications.

The top three teams were recognized with a certificate. In first place was South Newton FFA; in second place was Eastern Hancock FFA and in third place was South Central FFA.

The 2015 competition will be limited to 8 teams and will feature new hands-on exercises for participants. Funds are available to help with lodging costs for teams. Teams must register by July 1st, 2015 by contacting Lisa Green at lgreen06@purdue.edu.

All groups are welcome. Teams can be supervised by industry members, Extension educators, K-12 Agriculture educators, FFA crop judging teams and other FFA groups, or 4-H groups.

The competition will begin in the morning and conclude with a provided lunch.

More information and resources for team training can be provided by contacting Kiersten Wise at kawise@purdue.edu

To date, support for the competition has been provided by the Indiana Soybean Alliance and the Indiana Corn Marketing Council, Weaver Popcorn, and the Indiana Certified Crop Advisors.

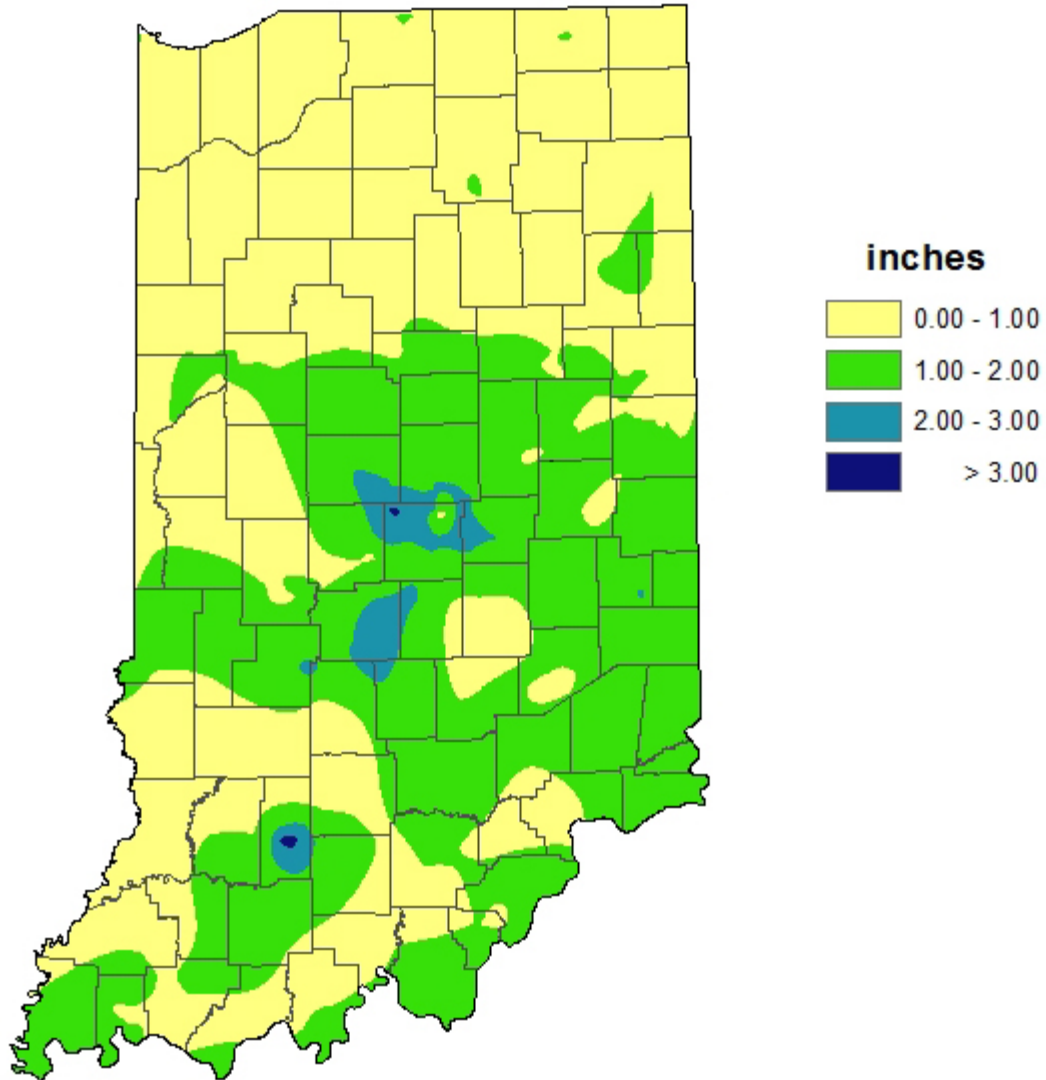


[back to top](#)

WEATHER UPDATE

Total Precipitation April 9-15, 2015

**Total Precipitation
April 9 - 15, 2015
CoCoRaHS network
(375 stations)**



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

[back to top](#)



Pest&Crop Newsletter

Purdue Cooperative Extension Service

THANKS FOR READING

Contact Information

🏠 Purdue Extension Entomology

901 W. State Street

West Lafayette, IN, 47907

☎ (765) 494-8761

✉ luck@purdue.edu

🐦 [@PurdueExtEnt](https://twitter.com/PurdueExtEnt)

f [PurdueEntomology](https://www.facebook.com/PurdueEntomology)

Purdue Extension

Knowledge to Go

1-888-EXT-INFO

Subscribe

If you would like to be alerted by e-mail when the current issue of the Pest&Crop is available online, please enter your e-mail address and click the submit button.

Name:

Email Address:

Word Verification:

Please enter the verification code as seen to continue.



[Reload Image](#) | [\(Audio\)](#)

DISCLAIMER:

It is the policy of the Purdue University Cooperative Extension Service that all persons have equal opportunity and access to its educational programs, services, activities, and facilities without regard to race, religion, color, sex, age, national origin or ancestry, marital status, parental status, sexual orientation, disability or status as a veteran. Purdue University is an Affirmative Action institution. This material may be available in alternative formats.

[back to top](#)

[Purdue University](#) | [College of Agriculture](#) | [Entomology](#) | [Extension](#)

[Copyright © 2015, Purdue University, all rights reserved, site author Entomology Extension](#)

Website developed by the Entomology Department at Purdue University

[An equal access/equal opportunity university](#)