

Pest&Crop newsletter

Purdue Cooperative Extension Service and USDA-NIFA Extension IPM Grant

This work is supported in part by Extension Implementation Grant 2017-70006-27140/ IND011460G4-1013877 from the USDA National Institute of Food and Agriculture

In This Issue

- [Soybean Defoliation Contest, the Winner is...](#)
- [2019 Western Bean Cutworm Pheromone Trap Report](#)
- [2019 Corn Earworm Trap Report](#)
- [Field Crop Update for Indiana](#)
- [Indiana Climate and Weather Report - 8/1/2019](#)

Soybean Defoliation Contest, the Winner is...

(John Obermeyer)

I was quite encouraged by the many responses received on the soybean defoliation challenge presented in last week's Pest&Crop (article can be viewed [HERE](#)). Most guesstimates, range being from 3.7 to 18.8, were within a few percentage points of the actual measured defoliation...8.7%. Most importantly, ALL contestants indicated the correct management decision was to do nothing. As I continue to visit the soybean plot from where this plant was taken, Japanese beetle have virtually disappeared and new leaf growth exhibits very little defoliation. Meaning, all those participating had the correct IPM response!

Congratulations to both Daryle Moyer, DLM Seed, and Austin Schwark, Planet.com, for their educated guesses of 9.1%. Very impressive! Hopefully their defoliation guessing skills will gain them applause from their colleagues/clients. Because of the encouragement and humor sprinkled in with many of the responses, look for future contests. The fun/learning continues, happy scouting!



Actual defoliation of the contest plant is 8.7%, here the damaged leaves are clumped together for easier viewing/assessment.

2019 Western Bean Cutworm Pheromone Trap Report

(John Obermeyer)

County	Cooperator	WBC Trapped						
		Wk 1 6/20/19- 6/26/19	Wk 2 6/27/19- 7/3/19	Wk 3 7/4/19- 7/10/19	Wk 4 7/11/19- 7/17/19	Wk 5 7/18/19- 7/24/19	Wk 6 7/25/19- 7/31/19	Wk 7 8/1/19- 8/7/19
Adams	Roe/Mercer Landmark	0	0	0	0	2	0	0
Allen	Gynn/Southwind Farms	0	0	1	0	20	4	0
Allen	Kneubuhler/G&K Concepts	0	0	0	1	0	0	0
Bartholomew	Bush/Pioneer Hybrids	0	0	0	3	0	2	0
Boone	Emanuel/Boone Co. CES	4	2	7	8	8	3	0
Clay	Fritz/Ceres Solutions/Clay City	0	3	0	0	0	0	0
Clay	Mace/Ceres Solutions/Brazil	0	0	8	0	0	0	0
Clinton	Emanuel/Boone Co. CES	0	2	3	5	1	0	0
Clinton	Foster/Purdue CES	0	0	0	4	0	0	0
Dubois	Eck/Dubois Co. CES	0	1	3	3	2	0	0
Elkhart	Kauffman/Crop Tech Inc.	1	2	28	118	184	5	0
Fayette	Schelle/Falmouth Farm Supply Inc.	0	0	1	0	0	2	0

County	Cooperator	WBC Trapped						
		Wk 1 6/20/19- 6/26/19	Wk 2 6/27/19- 7/3/19	Wk 3 7/4/19- 7/10/19	Wk 4 7/11/19- 7/17/19	Wk 5 7/18/19- 7/24/19	Wk 6 7/25/19- 7/31/19	Wk 7 8/1/19- 8/7/19
Fountain	Mroczkiewicz/Singenta	0	0	0	0	0	0	0
Fulton	Jenkins/Ceres Solutions	1	0	15	96	151	0	0
Fulton	Randstead/Ceres Solutions	0	0	23	17	27	22	0
Hamilton	Campbell/Beck's Hybrids	0	1	115	65	4	0	0
Hendri	Nicholson/Nicholson Consulting	0	0	1	3	0	0	0
Hendricks	Tucker/Bayer	2	1	2	6	0	0	0
Howard	Shanks/Clinton Co. CES	0	0	0	0	0	0	0
Jasper	Overstreet/Jasper Co. CES	1	1	31	252	1152	142	0
Jasper	Ritter/Dairyland	5	3	7	114	76	0	0
Jay	Boyer/Davis PAC	0	0	6	8	5	0	0
Jay	Shirach/Nan-Del Agri Services	0	0	2	1	2	0	0
Jay	Temple/Jay Co. CES/Pennville	1	1	2	2	11	9	0
Jay	Temple/Jay Co. CES/RedKey	3	3	9	6	10	4	0
Jennings	Bauer/SEPAC	0	0	0	0	0	0	0
Knox	Clinkenward/Ceres Solutions/Freelandville	0	0	0	0	0	0	0
Kosciusko	Klotz/Etna Green	0	1	4	10	32	12	0
Lake	Kleine	0	1	12	16	189	15	0
Lake	Moyer/Dekalb Hybrids/Shelby	0	0	0	19	140	36	0
LaPorte	Rocke/Agri-Mgmt. Solutions/Wanatah	4	1	40	45	555	57	0
Marshall	Hammel/Hammel Ag Services	1	1	5	16	34	1	0
Marshall	Klotz/Nappanee	0	0	8	105	25	5	0
Miami	Early/Pioneer Hybrids	0	2	25	82	25	5	0
Montgomery	Delp/Nicholson Consulting	0	0	14	2	0	0	0
Newton	Moyer/Dekalb Hybrids/Lake Village	1	0	11	48	307	29	0
Porter	Tragesser/PPAC	0	0	1	9	24	4	0
Posey	Schmitz/Posey Co. CES/Cynthiana	0	0	0	6	3	10	0
Pulaski	Capouch/M&R Ag Services	6	0	0	30	0	0	0
Putnam	Leman/Ceres Solutions	2	0	0	1	3	0	0
Randolph	Nicholson/Nicholson Consulting	1	1	0	2	1	0	0
Randolph	Boyer/DPAC	0	0	20	12	0	0	0
Rush	Scheller/Falmouth Farm Supply Inc.	0	2	1	0	0	0	0
Shelby	Fisher/Shelby County Co-op	0	0	0	0	0	0	0
Shelby	Simpson/Simpson Farms	0	0	4	15	1	0	0
St. Joseph	Carlsener/Breman	0	0	2	41	9	0	0
St. Joseph	Deutscher/Helena Agri-Enterprises	0	0	5	10	47	19	0
Starke	Capouch	0	0	1	21	11	8	0
Sullivan	Baxley/Ceres Solutions/Sullivan	0	0	4	0	0	0	0
Sullivan	Baxley/Ceres Solutions/New Lebanon	0	0	3	0	0	0	0
Sullivan	McCullough/Ceres Solutions/Farmersburg	0	0	0	0	0	3	0
Tippecanoe	Bower/Ceres Solutions/Lafayette	0	5	34	3	0	0	0
Tippecanoe	Nagel/Ceres Solutions	0	0	1	3	0	0	0
Tippecanoe	Obemeyer/Purdue Entomology	0	0	0	0	0	0	0
Tippecanoe	Westfield/Monsanto Research Farm	1	1	2	6	6	2	0
Tipton	Campbell/Beck's Hybrids	0	0	1	8	1	0	0
Vermillion	Lynch/Ceres Solutions/Clinton	0	0	0	0	0	0	0
Wabash	Enyeart/Ceres Solutions	0	2	3	4	4	1	0
White	Foley/ConAgra	0	1	1	8	9	17	0
Whitley	Boyer, Richards/NEPAC/Schrader	0	0	2	11	11	1	0
Whitley	Boyer, Richards/NEPAC/Kyler	0	0	2	11	11	1	0

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

2019 Corn Earworm Trap Report

(Tammy Luck, luck@purdue.edu)



Click here for recent catch information

Field Crop Update for Indiana

(Darcy Telenko)

Southern Rust was confirmed in Gibson County this week. Check out the southern rust publication for more images of southern rust and other diseases that might mimic it. This publication also has good

information on determining when a fungicide application will be beneficial. The publication is at following link:

<https://crop-protection-network.s3.amazonaws.com/publications/cpn-2009-southern-rust.pdf>.

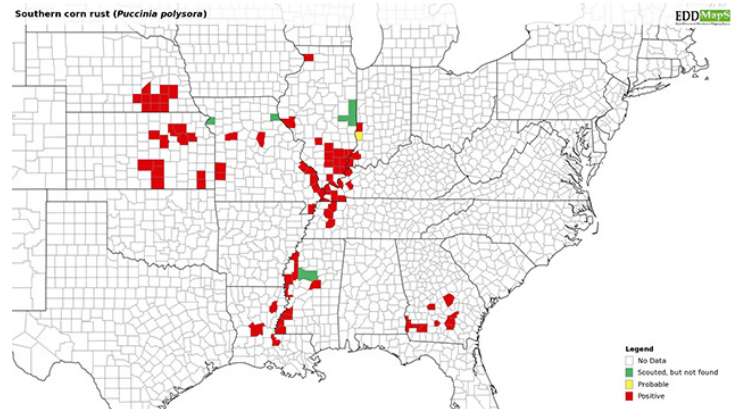


Figure 1. Map of counties confirmed for southern corn rust as of August 1, 2019.



Figure 2. Southern rust pustules on corn leaf. Pustules generally form and erupt on upper surface. (Photo Credit: Darcy Telenko)

Tar Spot - we have started to find a few more sites with tar spot and confirmed a third county - St. Joseph.

We again are requesting if you have any suspect locations to please update us and send a sample. I am especially interested in surrounding counties such as Lake, Jasper, Pulaski, St. Joseph and Starke or anything in the northern part of Indiana. See this link on a short guide to collecting samples and to few images of both southern rust and tar spot.

<https://extension.purdue.edu/fieldcroppathology/wp-content/uploads/2019/07/Please-Help-Us-Collect-Field-Crop-Disease-Samples.pdf>.

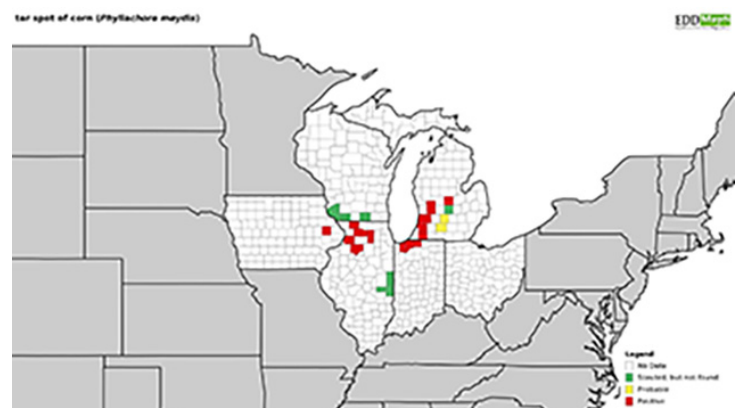


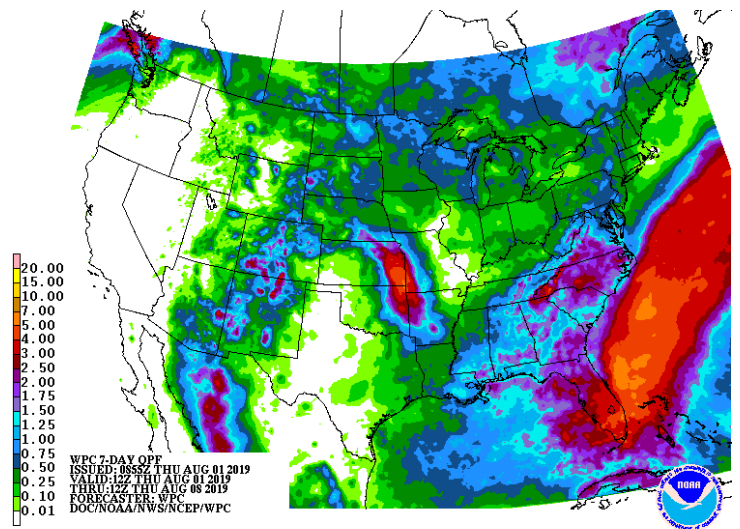
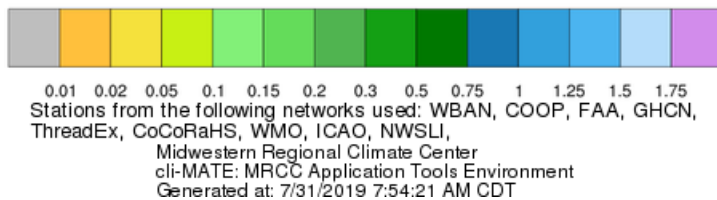
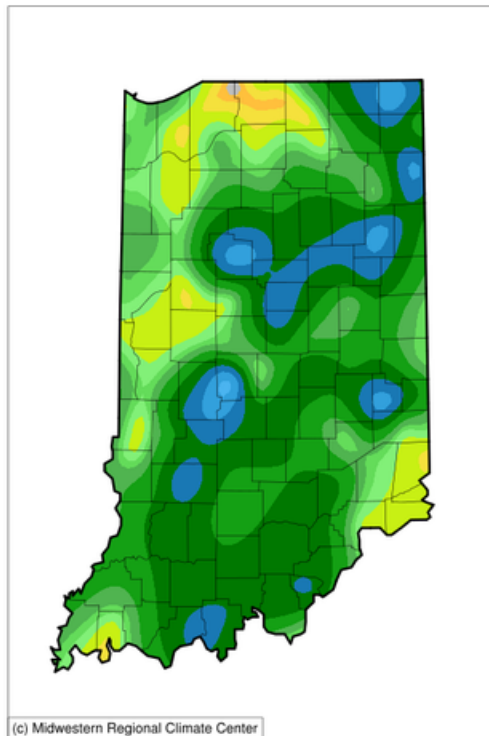
Figure 3. Map of counties confirmed for tar spot as of August 1, 2019.

Indiana Climate and Weather Report - 8/1/2019

(Beth Hall)

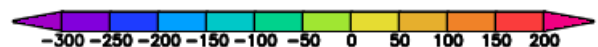
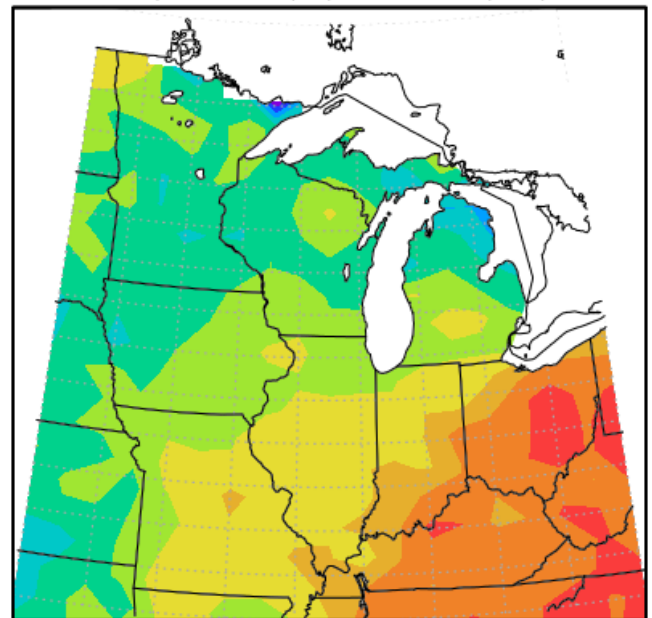
The brief rain event earlier this week brought some precipitation to the state (Figure 1). However, the drier regions of the north could use more rain soon! Sadly, significant amounts of rain do not appear to be in the forecast for the next 7 days (August 1-7; Figure 2). Keep an eye out for developing drought conditions!

Average Daily Precipitation (in)
July 30, 2019 to July 30, 2019



The heat seems to have backed off, but it is still summer, so muggy conditions are expected to continue with daytime highs in the 80s and nighttime lows in the 60s. This should offer relief from any potential heat stress and yet continue to allow growing degree-days (GDD) to accumulate. For GDD accumulations starting May 1st, the central and northern counties of Indiana are near normal with the southern counties 50-100 units above normal (Figure).

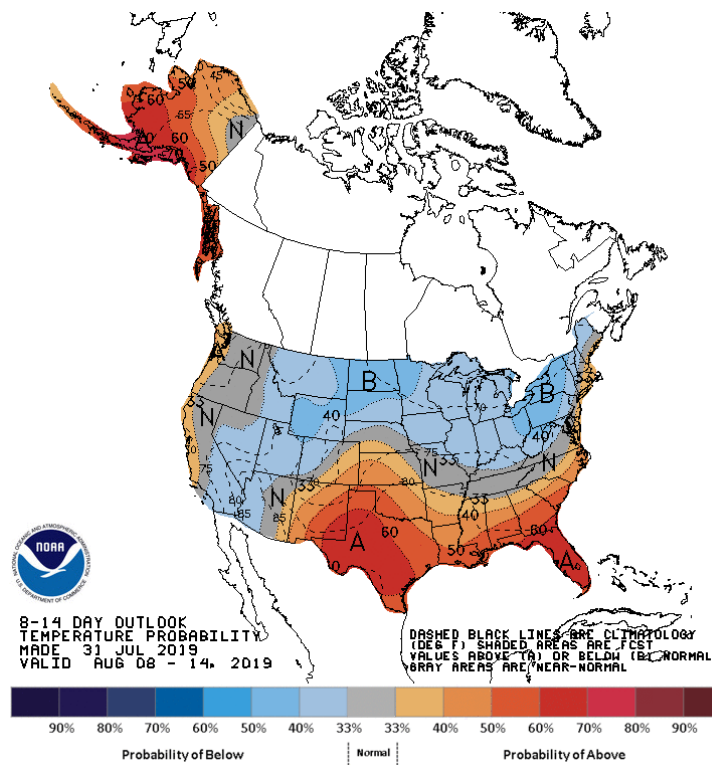
MGDD Departure, 5/1/2019 to 7/31/2019



Midwestern Regional Climate Center
Illinois State Water Survey
University of Illinois at Urbana-Champaign

Climate outlooks produced by the National Oceanic and Atmospheric Administration's Climate Prediction Center (CPC) look uncertain through August 10th with respect to temperature. However, From August 11th through 15th, the CPC has significant confidence that temperatures will

be below normal throughout Indiana and precipitation will be above normal for the southern counties (Figure).



It is the policy of the Purdue University 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 is an Affirmative Action Institution. This material may be available in alternative formats. 1-888-EXT-INFO Disclaimer: Reference to products in this publication is not intended to be an endorsement to the exclusion of others which may have similar uses. Any person using products listed in this publication assumes full responsibility for their use in accordance with current directions of the manufacturer.

Pest&Crop newsletter © Purdue University - extension.entm.purdue.edu/newsletters/pestandcrop
Editor: Tammy Luck | Department of Entomology, Purdue University, 901 W. State St., West Lafayette, IN 47907