

DATCP PEST SURVEY PROGRAM

- The Wisconsin Pest Survey Program was established in 1915 to:
 - Collect data on economic pests affecting WI crops
 - Detect exotic pests of regulatory significance
 - Support export certification
- All surveyed fields are selected objectively and pest levels are measured using standard sampling methods
- Results are published in the Wisconsin Pest Bulletin

DATCP PEST SURVEY PROGRAM



SUBSCRIBE AT http://pestbulletin.wi.gov/

INSECT SURVEYS 2013



- Western bean cutworm
- Corn rootworm beetle
- European corn borer
- Black cutworm
- Soybean aphid



WESTERN BEAN CUTWORM Cumulative number of moths per trap

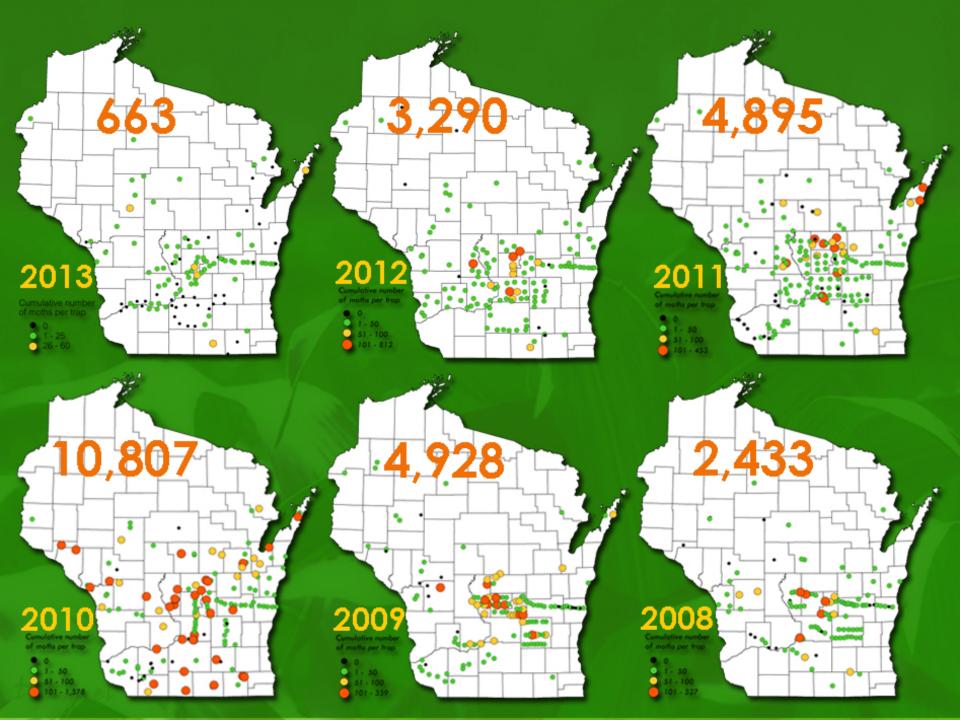
 Cumulative moth count was the lowest since 2005

2013: 663 moths or 6 per trap

2012: 3,290 or 25 per trap

2010: 10,807 or 79 per trap

- Traps monitored for 10 weeks, from mid-June to mid-Aug
- Highest individual trap count was 60 moths in Marquette Co.



WBCW OUTLOOK FOR 2014



- Late summer drought of 2012 may have affected overwintering prepupae
- Natural enemies could be regulating larval populations
- Begin scouting at 1,320 gdd
- Know your Bt hybrid. Cry1F trait performs inconsistently under heavy wbcw pressure



ROOTWORM SURVEY Average number peetles per plant

State Ave. No. Beetles per Plant:

2013 0.50

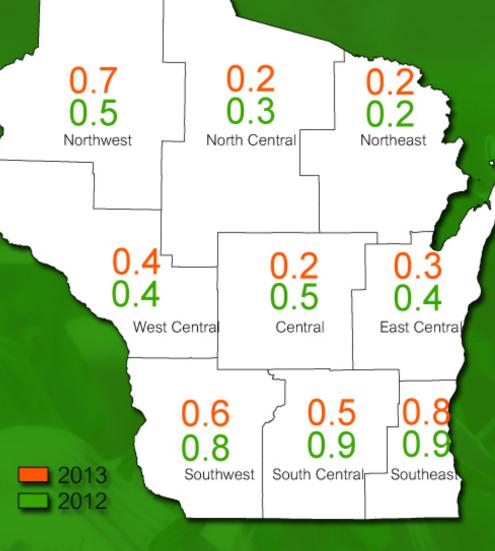
2012 0.60

10-year 0.80

Threshold 0.75

A total of 17% of 229 sites had >0.75 beetle per plant compared to 25% in 2012

CORN ROOTWORM SURVEY



- Populations decreased or stayed the same in all districts,
 except the NORTHWEST
- Largest decreases recorded in SC and C areas
- Only increase occurred in NW where several fields had very high counts of 1.3-3.2 beetles per plant

CORN ROOTWORM OUTLOOK 2014



- Lower beetle counts in 2013 may indicate lower root damage potential for 2014
- Continuous corn in parts of southern and northwestern Wisconsin is still at risk of crw injury next season
- Approx 17% of survey sites at HIGH risk of root injury

EUROPEAN CORN BORER

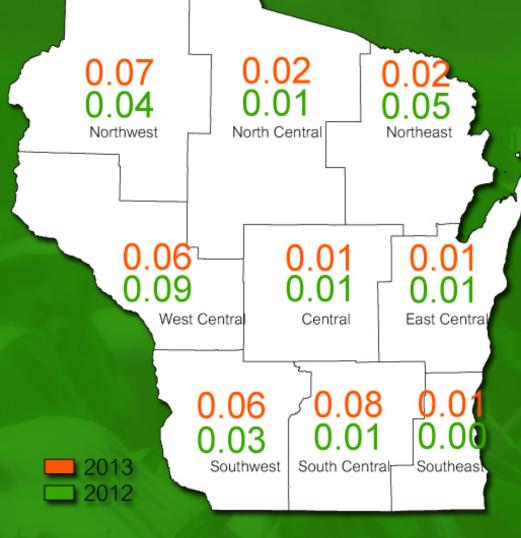


EUROPEAN CORN BORER SURVEY State Ave. No. Borers per Plant: 2013 0.04 2012 0.03 10-year 0.14 50-year 0.43 **Threshold** 1.00

Average number of borers per plant

- Only 2% of 229 fields had HIGH averages of > 1.0 borer per plant
- 82% of surveyed fields had no larvae or signs of infestation

EUROPEAN CORN BORER SURVEY



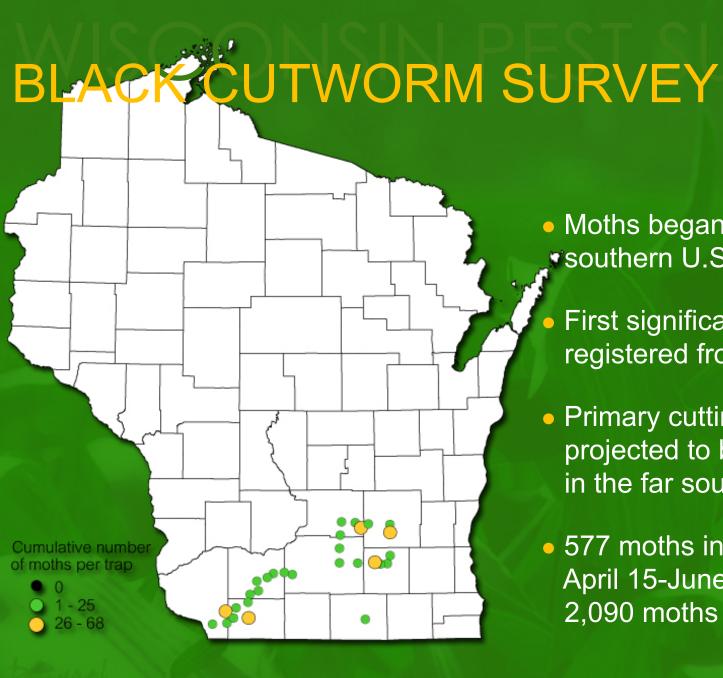
- Minor population increases in the SW, SC, SE, NW and NC crop districts
- Populations declined in the WC and NE areas

CORN BORER OUTLOOK FOR 2014



- Populations in WI and Midwest remain at historically low levels
- Spring flight of moths next May early June should be very small
- Given current low ECB levels, is it time to take a break from Bt?





Moths began arriving from

southern U.S. on April 15

First significant flight was registered from May 6-7

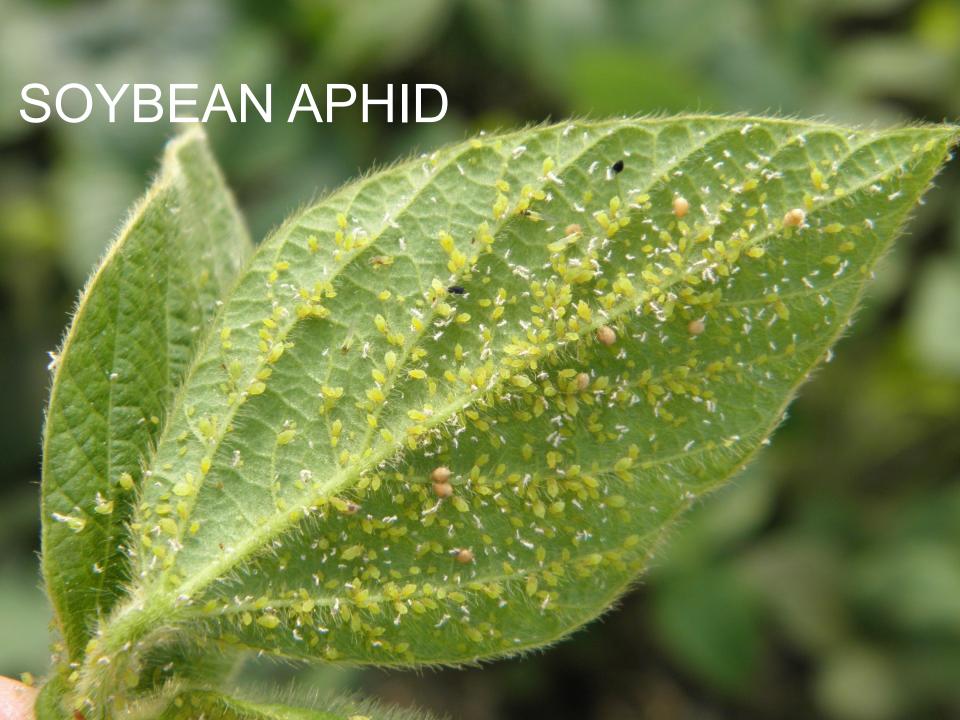
 Primary cutting period was projected to begin by May 28 in the far south

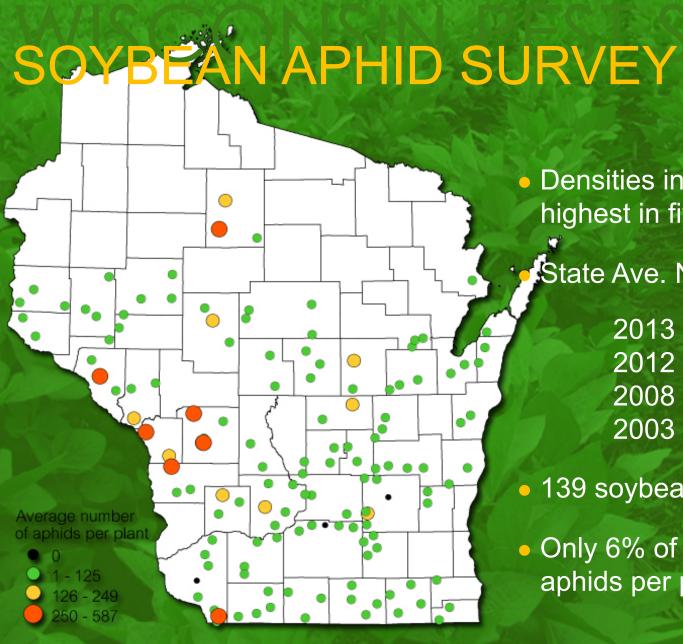
 577 moths in 30 traps from April 15-June 5 compared to 2,090 moths in 2012

BLACK CUTWORM OUTLOOK 2014



- Risk of outbreaks depends on size and timing of spring moth migration
- Reduced and no-till systems with winter annual weed cover, during peak BCW egg laying, have highest potential for infestation
- Follow WPB migration reports and scout fields from VE-V5





Densities in 2013 were the highest in five years

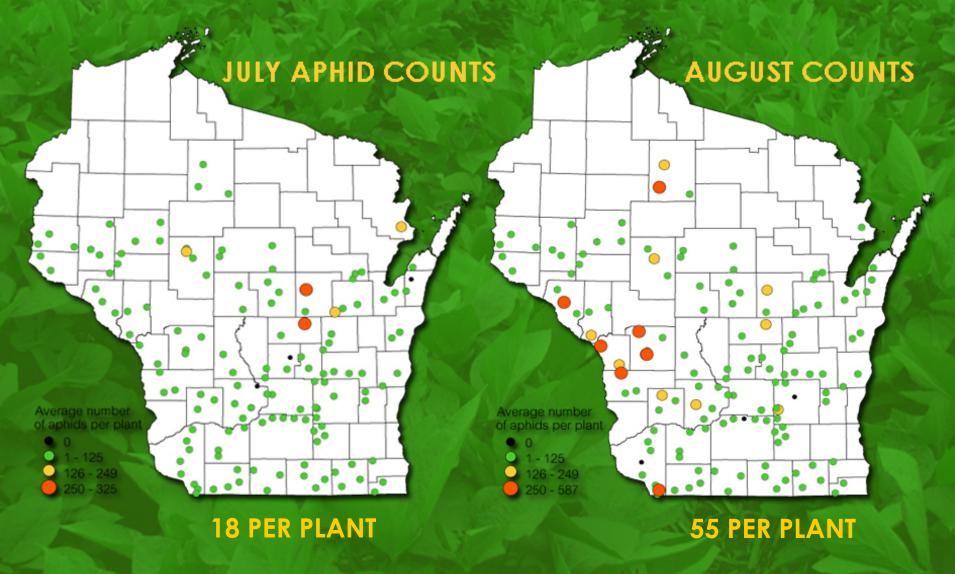
State Ave. No. Aphids per Plant:

2013 55 2012 2008 72 2003 758

139 soybean fields surveyed

Only 6% of fields had >250 aphids per plant

SOYBEAN APHID SURVEY



SOYBEAN APHID OUTLOOK 2014



- Early indications are for lower densities in 2014, if aphids follow typical two-year cycle
- Suction trap counts during fall aphid migration to buckthorn were extremely low

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ACKNOWLEDGEMENTS

Amber Gotch, Hancock Research Station Bill Halfman, UWEX Monroe Co. Bill Veith, Seneca Foods **Bob Berkevich, Agrigold** Claudio Gratton, UW-Madison Ento. Dave West, La Farge Dennis Ball, CCA Columbia Co. Eileen Cullen, UW-Madison Ento. Eric Birschbach, Ag Site Consulting Jason Cavadini, Marshfield Research St Jerry Clark, Chippewa Co. UWEX **Jerry Mollet, Seneca Foods** Jessy Hill, Hill's Townline Heifers Jim Stute, Rock Co. UWEX Joanne Ray, Chippewa Falls Kelly Renner, Grant Co. Ken Williams, Waushara Co. UWEX Kevin Schoessow, Washburn Co. UWEX **Kevin Traastad, Coon Valley Kyle Much, Knutzen Crop Consulting**

Mark Anderson, Frontier FS Mark Kopecky, Organic Valley Mark Weihing, Pioneer Hi-Bred Matt Hamilton, UW-Madison Entomology Michael Theis, Lodi Canning Co. Mike Dinderman, Crop Prod. Services Mike Weiss, Monsanto Paul Whitaker, Marathon Co. UWEX Peg Reedy, Walworth Co. UWEX Pete Krueger, Burnett Dairy Co-op Richard Halopka, Clark Co. UWEX Rob Shields, WI River Co-op Ron Stanke, Crop Production Services **Scott Reuss, Marinette Co. UWEX Steve Hoffman, Hoffman Crop Consulting** Steve Keil, Agri-Partners Coop **Todd Schaumberg, Polenske Agronomic** Trisha Wagner, Jackson Co. UWEX Warren Pickar, Western Tech