

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



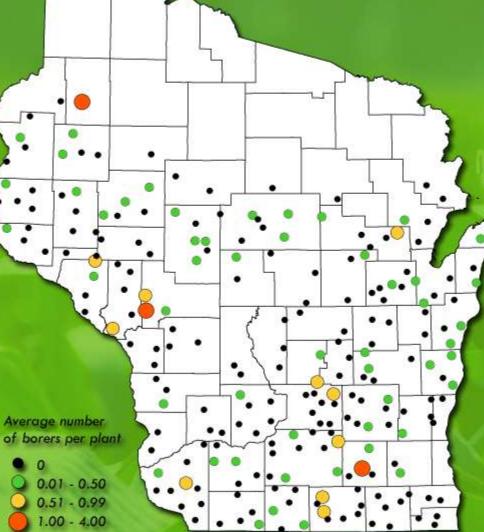
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INSECT SURVEYS 2011



- European corn borer
- Corn rootworm beetle
- Western bean cutworm
- Black cutworm
- Soybean aphid
- Japanese beetle
- Exotic pest ALERT

EUROPEAN CORN BORER SURVEY



State Ave. No. Borers per Plant:

2011 0.09

2010 0.07

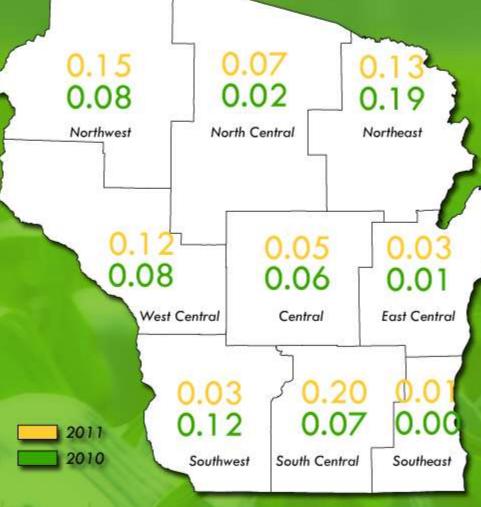
10-year 0.24

50-year 0.45

Threshold 1.00

Fourth lowest fall population since surveys began in 1942

EUROPEAN CORN BORER SURVEY



- Minor population increases in the SC, SE, WC, EC, NW and NC districts
- Only 1% of 229 fields had HIGH averages of > 1.0 borer per plant
- 65% of surveyed fields had no larvae or signs of infestation

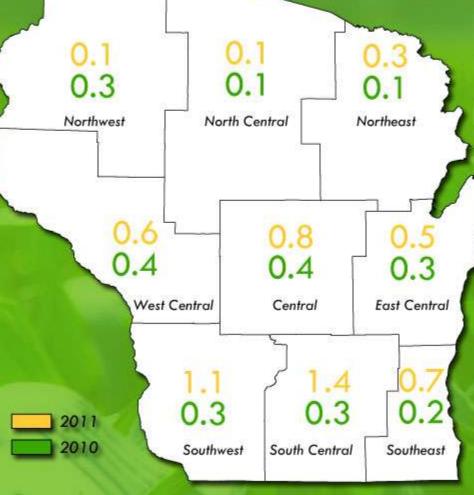
CORN BORER OUTLOOK FOR 2012



- Populations in WI and Midwest are at historically low levels
- Regional suppression of ECB associated with Bt corn use
- Spring flight of moths next Mayearly June should be very small

OOTWORM SURVEY State Ave. No. Beetles per Plant: 2011 0.70 2010 0.30 10-year 0.80 **Threshold** 0.75 Beetle populations increased Average number markedly across southern WI of beetles per plant 0.1 - 0.7 0.8 - 3.0 3.1 - 8.9

CORN ROOTWORM SURVEY



Populations increased in all districts, except NORTHWEST

Largest increases recorded in SC, SW and SE

A total of 27% of sites had
>0.75 beetle per plant compared to only 10% in 2010

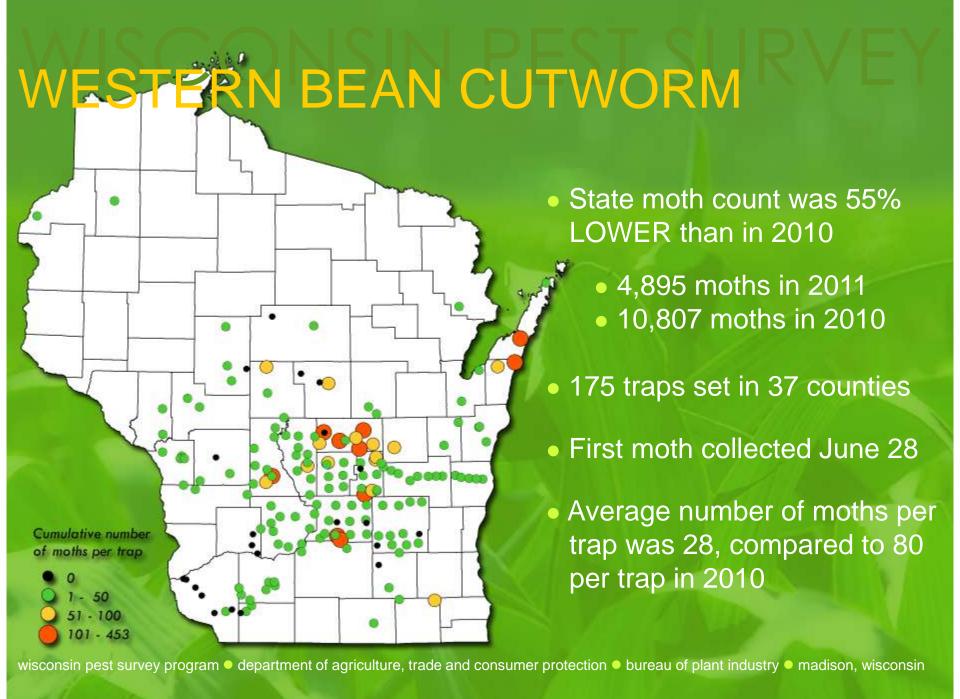
CORN ROOTWORM OUTLOOK 2012

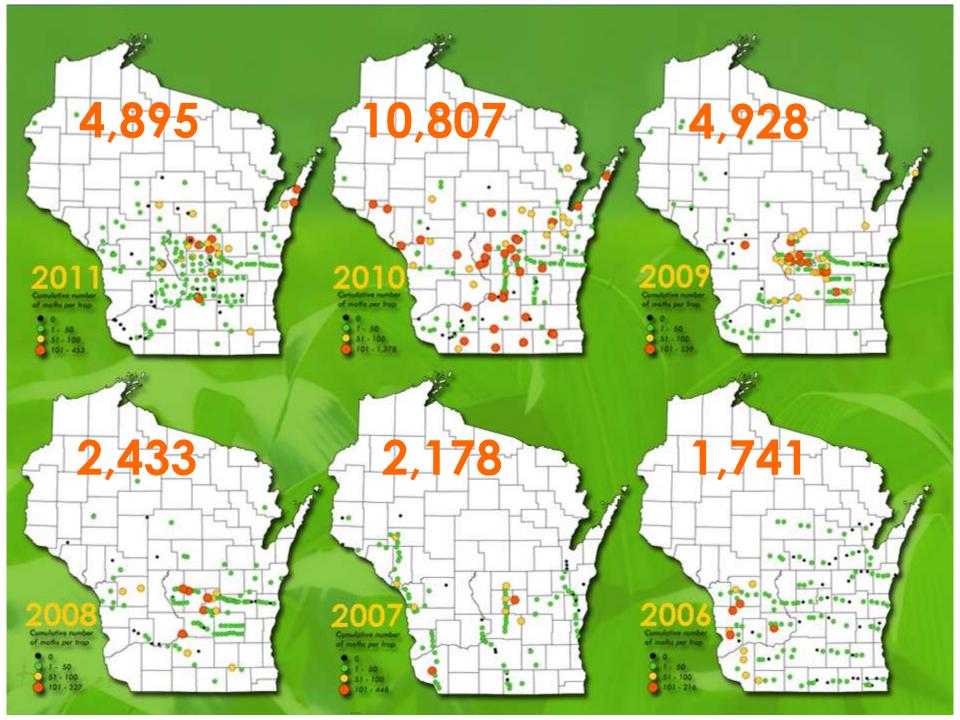


- Beetle counts returned to more "normal" levels in 2011
- Continuous corn in southern and parts of central Wisconsin is at risk of root injury in 2012
- Approx 27% of survey sites at HIGH risk of root injury

CRW RESISTANCE TO Bt CORN

- Fields with resistance to Cry3Bb1 corn reported in Illinois, Iowa,
 Minnesota, Nebraska and South Dakota (suspected in Wisconsin)
- All problem fields have a production history of at least three years of continuous corn with the Cry3Bb1 protein
- Recommendations:
 - Consider rotating Bt proteins if planting continuous corn
 - Comply with refuge requirements (5-20%)
 - Evaluate corn fields annually for crw pressure
- Crop rotation is still an effective management strategy

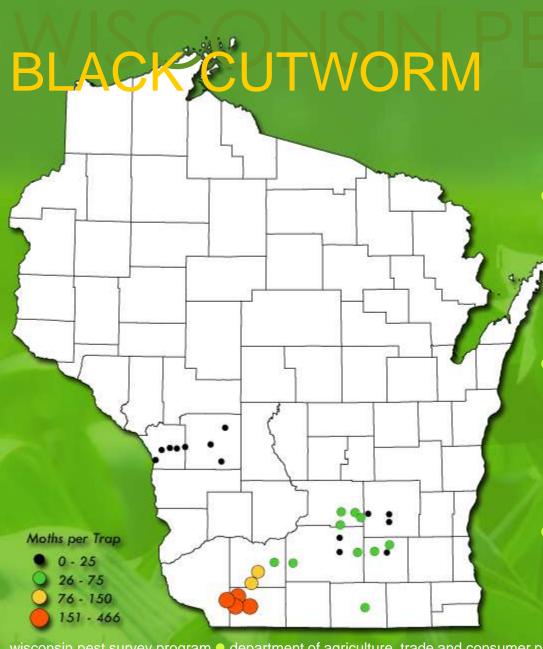




WBCW OUTLOOK FOR 2012



- Will moth counts and infestations increase or decrease?
- WBCW is a consistent problem in Adams, Columbia, Green Lake, Marquette, Waushara, etc.
- Only corn hybrids with the Bt protein Cry1F control WBCW
- Begin scouting at 1,320 gdd



Delayed planting, late weed control and largest moth migration in 10 years resulted in bcw problems in 2011

- Localized infestations developed by early June in Dane, Dodge, Jefferson, La Crosse, Vernon counties
- 2,090 moths in 30 traps from April 1-May 31

BCW OUTLOOK FOR 2012

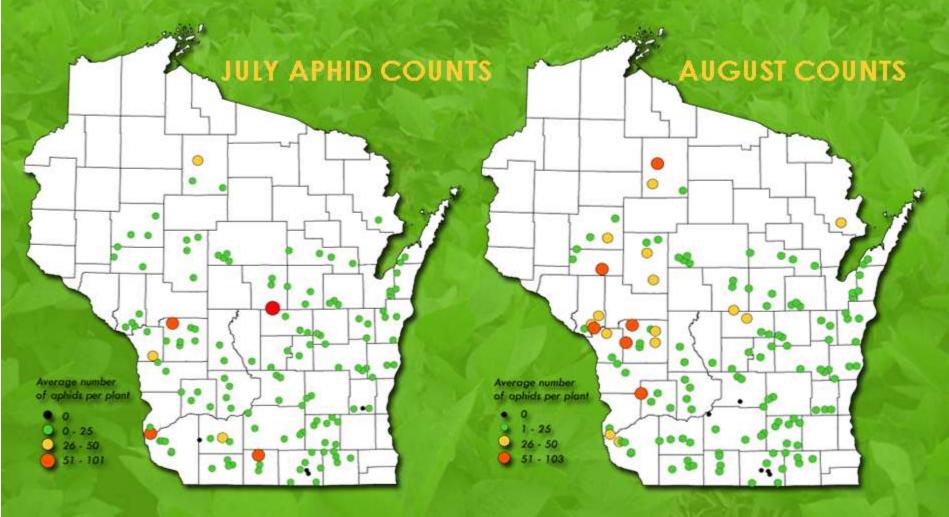


- Risk of outbreaks depends on size and timing of spring moth migration
- Reduced and no-till systems with winter annual weed cover, during peak BCW egg laying, have highest potential for infestation
- Follow WPB migration reports and scout fields from VE-V5

APHID SURVEY Densities were very low in 2011 State Ave. No. Aphids per Plant: 142 soybean fields surveyed Average number of aphids per plant

- Only 1 field had >250 aphids per plant. All other counts were <103 per plant

SOYBEAN APHID SURVEY URVEY



SOYBEAN APHID OUTLOOK 2012



- Early indications are for higher aphid levels in 2012
- Aphids not following typical two-year cycle
- Establishment on buckthorn was very good last fall
- Higher populations likely for 2012, but outbreak potential is uncertain

JAPANESE BEETLE 2011 SURVEY



- Populations higher than normal in 2011 in the SE, SC and NW areas
- Controls applied to many fields during first two weeks in August
- Economic thresholds based on percent defoliation and stage of soybean development:
 - 30% prior to bloom
 - 20% pod formation-pod fill

EXOTIC SOYBEAN PEST ALERY EY



BROWN MARMORATED STINK BUG



BEAN PLATASPID KUDZU BUG

BROWN MARMORATED STINK BUG



- First detected in Allentown, PA
 in 1998, now occurs in 34 states
- "Hitchhikers" found in Dane, Jefferson and Manitowoc Cos, since 2010, but no established population yet
- BMSB is a fruit and seed feeder with a wide host range (includes corn)
- Household nuisance pest in fall

BEAN PLATASPID OF KUDZU BUGEY



- First detected near Atlanta, GA in 2009 (native to East Asia)
- Rapidly spreading across southeastern US and now occurs in most of GA, NC, all of SC, and several counties in AL
- Host plants are kudzu, soybean and other legumes (attacks stems and petioles, not pods or leaves)
- Also a fall nuisance pest

EXOTIC SOYBEAN PEST ALERY EY





REPORT SUSPECTS TO WI PEST HOTLINE 1-866-440-7523 OR KRISTA.HAMILTON@WI.GOV

DATCP PEST SURVEY PROGRAM



COOPERATORS NEEDED FOR THE FOLLOWING SURVEYS:

- Soybean aphid
- Western bean cutworm
- Corn earworm
- Black cutworm

1-866-440-7523 KRISTA.HAMILTON@WI.GOV

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ACKNOWLEDGEMENTS

Alissa Moore, Wellspring Inc. **Amber Gotch, Hancock Research Station** Adrian Barta, DATCP **Anette Phibbs, DATCP** Anna Metscher, Wellspring Inc. Ben Huber, Frontier FS Bill Halfman, UWEX Monroe Co. **Bill Veith, Seneca Foods Bob Berkevich, Agrigold** Bonnie Clark, Valley Bluff Ag **Charlie Geurts, Agripartners Co-op** Clarissa Hammond, DATCP Claudio Gratton, UW-Madison Ento. Cory Schultz, Pioneer Hi-Bred Dale Muehlenhaupt, Markesan Dave Fischer, Dane Co. UWEX Dave West, La Farge Dean Volenberg, Door Co. UWEX Dennis Ball, CCA Columbia Co.

Dennis Lund, Christiana Farms Drew Muehlenhaupt, Markesan Eileen Cullen, UW-Madison Ento. Elissa Chasen, UW-Madison Ento. **Eric Birschbach, Ag Site Consulting Gene Schriefer, Iowa County UWEX** Heidi Johnson, Jefferson Co. UWEX Holly Sykora, Ag Services Jerry Clark, Chippewa Co. UWEX Jessy Hill, Hill's Townline Heifers Jim Stute, Rock Co. UWEX Joanne Ray, Chippewa Falls Joe Draeger, Ag Services John Domino, DATCP John Egan, Ag Services Kade Muehlenhaupt, Markesan Kelly Renner, DATCP Ken Williams, Waushara Co. UWEX Kevin Schoessow, Washburn Co. UWEX

ACKNOWLEDGEMENTS

Kevin Traastad, Coon Valley Kristin Meyers, Kapral Agronomy **Kyle Much, Knutzen Crop Consulting** Kyle Stull, Frontier FS Crop Specialist Mark and Sarah Weier Mark Anderson, Frontier FS Mark Haines, Mortenson Bros Farms, Inc. **Mark Kopecky, Price County UWEX** Mark Myers, Seminis Vegetable Seed Mark Vanden Plas, AgroTech Michael Theis, Lodi Canning Co. Mike Ballweg, Sheboygan Co. UWEX Mike Bertram, Marshfield Ag Station Mike Egan, Ag Services Mike Weiss, Syngenta Seeds, Inc. **Nick Clemens, DATCP Nowak Farms, Ag Services** Pat Reif, DATCP Paul Sturgis, CROPTECH Agronomics

Paul Whitaker, Marathon Co. UWEX Peg Reedy, Walworth Co. UWEX Peter Yanke, UW-Madison Entomology Richard Halopka, Clark Co. UWEX Rick Kindschi, Mazo Farms Rob Shields, WI River Co-op **Ron Stanke, Crop Production Services Scott Reuss, Marinette Co. UWEX Shawn Farrell, Shamrock Grain Farm** Stephen Steigauf, Burnett Dairy **Steve Hoffman, Hoffman Crop Consulting** Steve Huntzicker, La Crosse Co. UWEX Sue Lueloff, DATCP Tim Meehan, UW-Madison Ento. Tim Wood, Lancaster Research Station Tom Novak, Total Crop Management Trisha Wagner, Jackson Co. UWEX Warren Pickar, Western Tech