

INSECT SURVEY
RESULTS 2017
& OUTLOOK FOR

2018

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DATCP PEST SURVEY PROGRAM

INSECT SURVEYS 2017

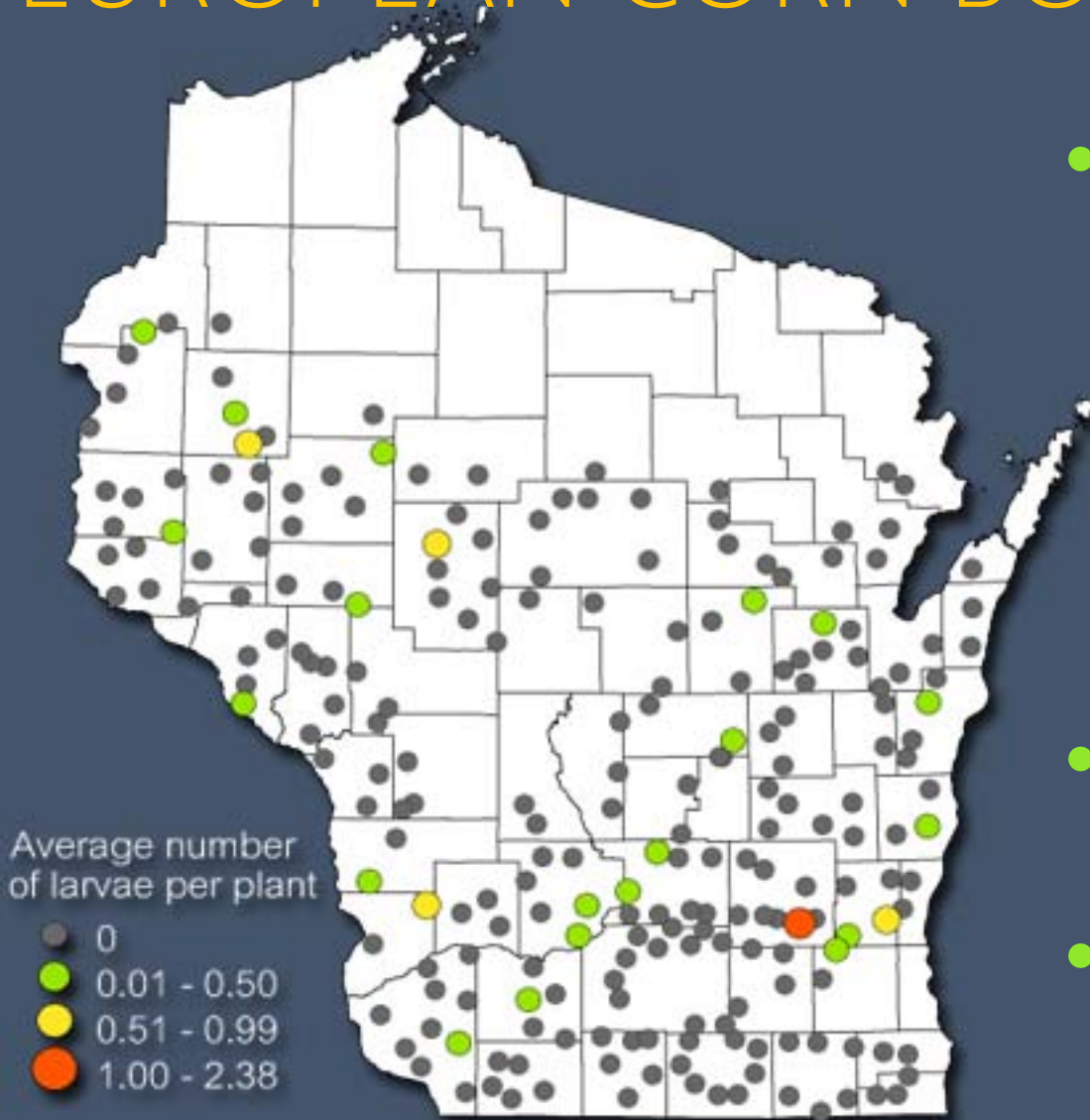


- European corn borer
- Corn rootworm beetle
- Western bean cutworm
- Soybean aphid
- Brown marmorated stink bug

EUROPEAN CORN BORER



EUROPEAN CORN BORER SURVEY



- State average number of corn borers per plant:

2017 0.03

2016 0.11

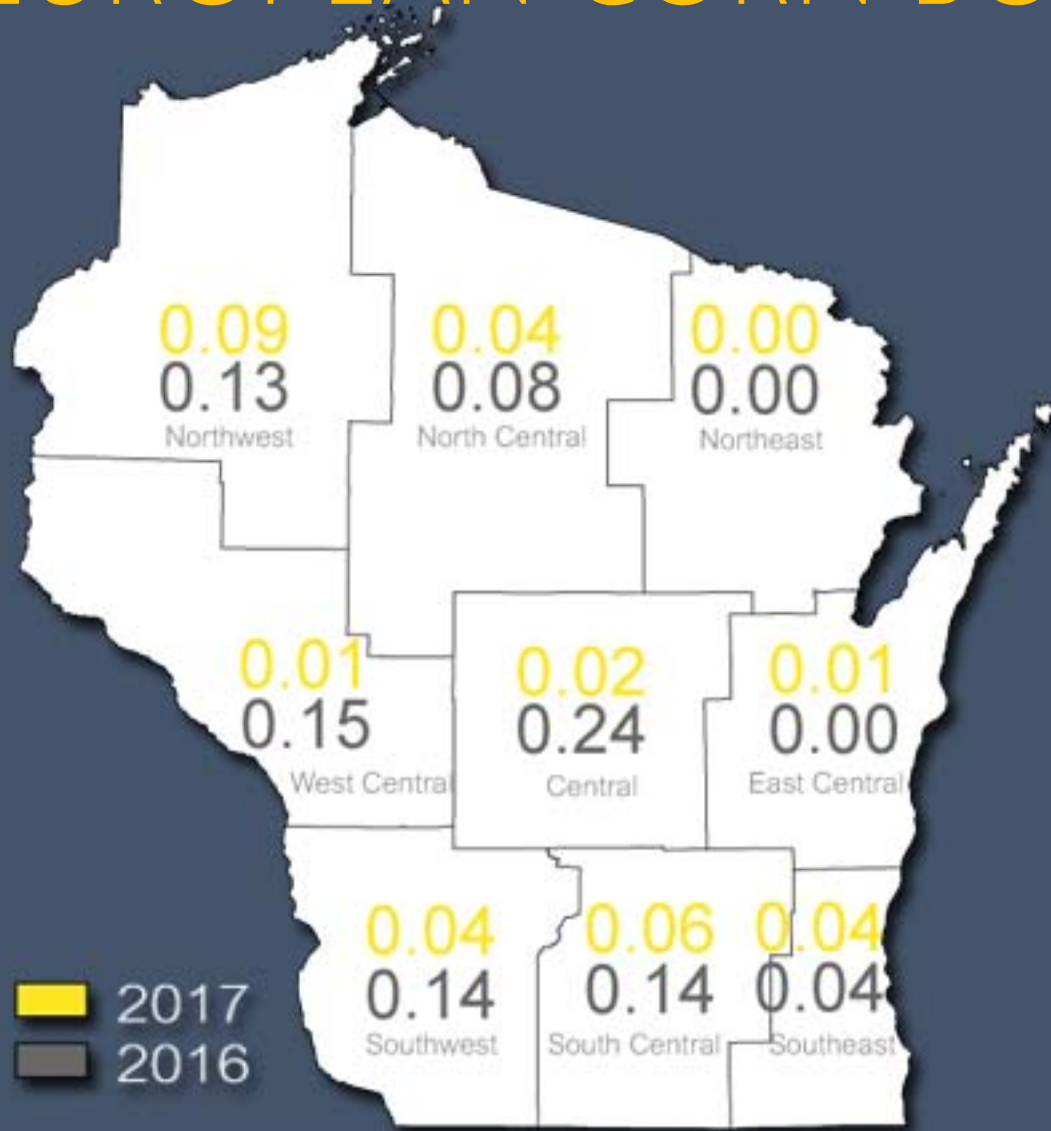
10-year 0.06

50-year 0.42

Threshold 1.00

- 86% of sites had no signs of ECB infestation
- Second lowest fall ECB population since 1942, tying 2012 and 2014

EUROPEAN CORN BORER SURVEY



- State average = 0.03 corn borer larva per plant
- Averages decreased or remained unchanged in 8 of the 9 crop districts (except EC area)
- Low 2017 ECB population indicates suppression trend continues

ECB OUTLOOK FOR 2018

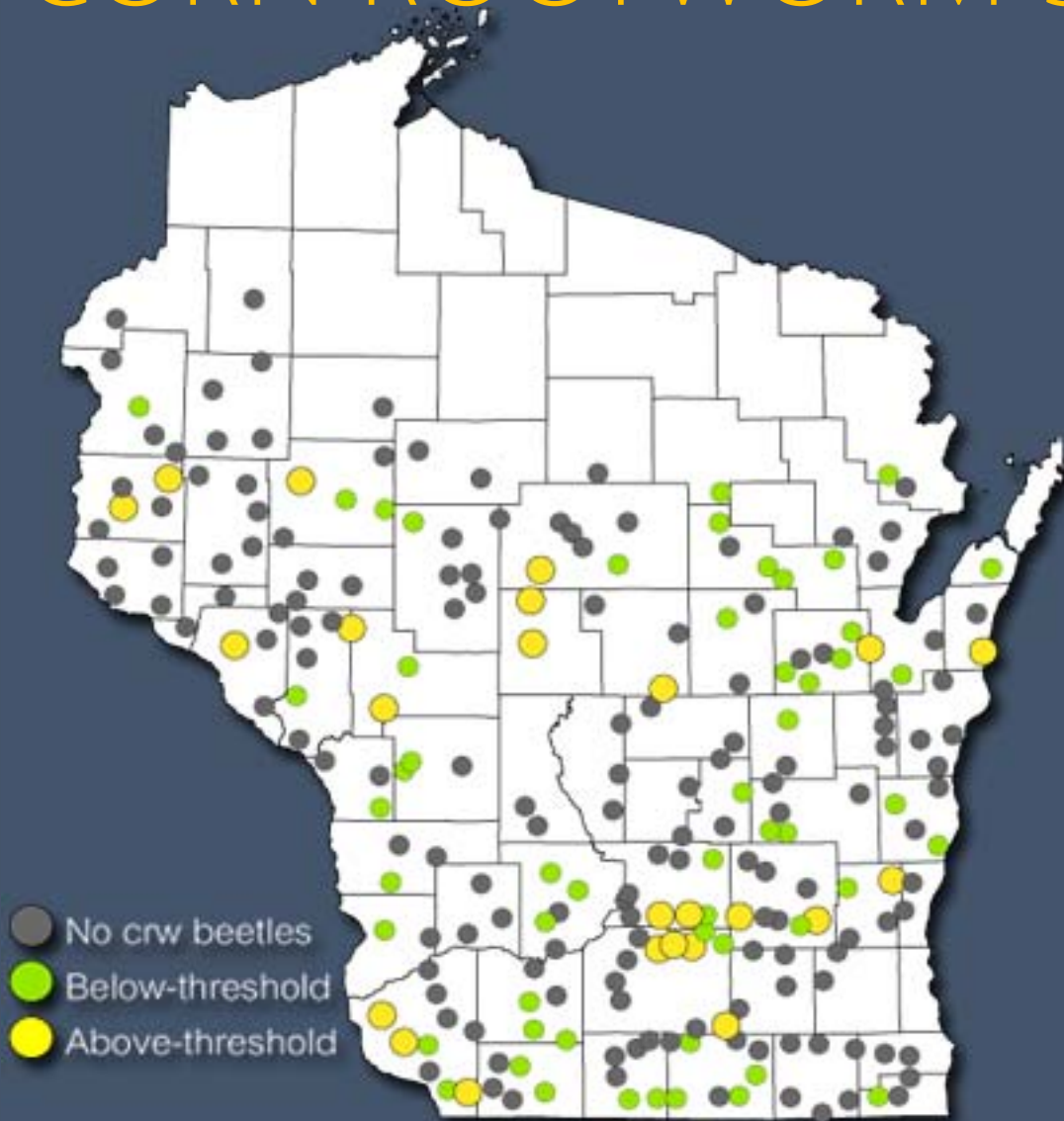


- ECB populations in Wisconsin still generally very low
- Low ECB pressure expected to continue in 2018, with localized “hot spots”
- Non-GM corn must be scouted

CORN ROOTWORM BEETLE



CORN ROOTWORM SURVEY 2017



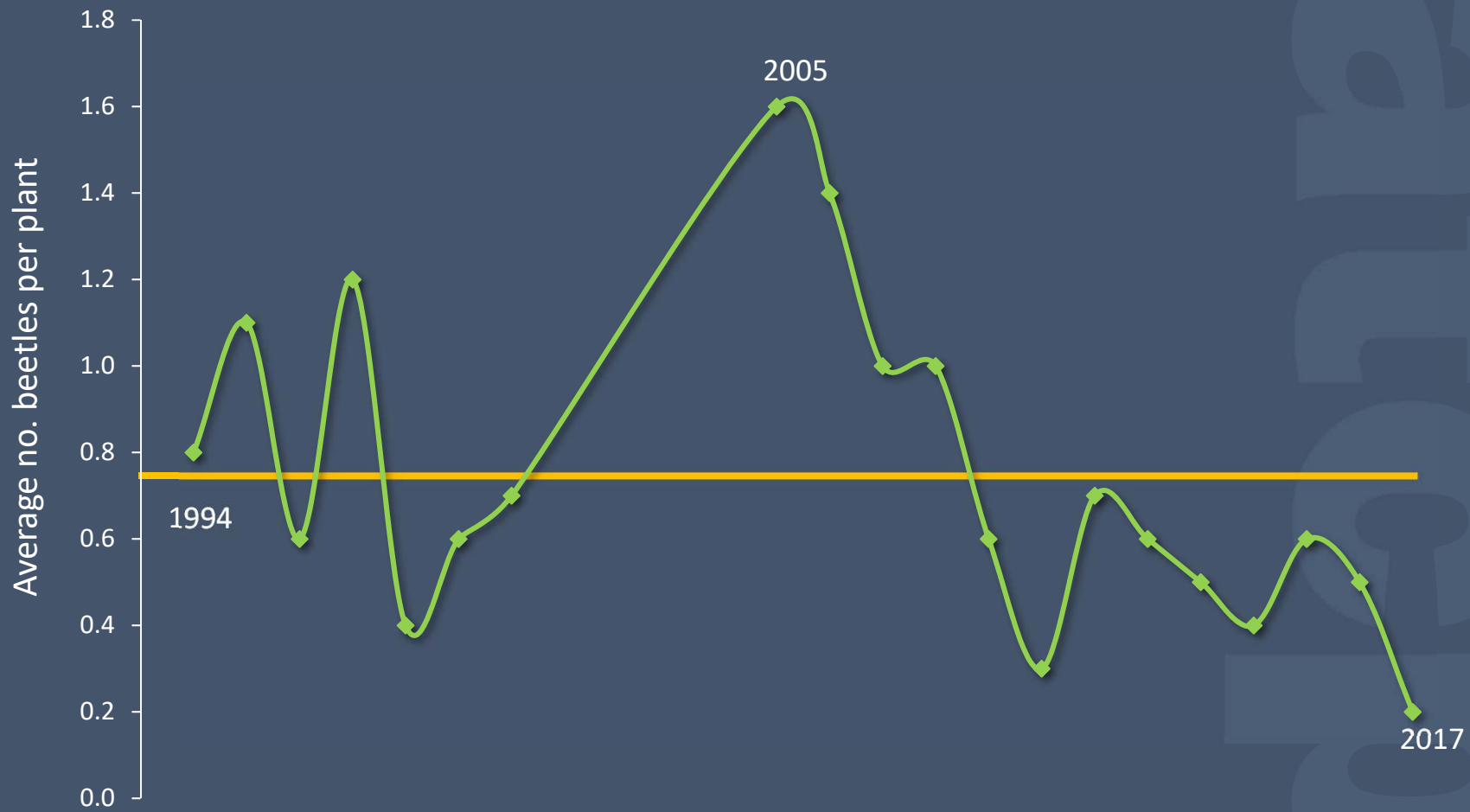
- Crw beetle counts dropped in 2017 to the lowest level on record (since 1971)
- State average number of beetles per plant:
 - 2017:** 0.2 per plant
 - 2016:** 0.5 per plant
 - 10-year:** 0.5 per plant
 - Threshold:** 0.75 per plant
- No crw beetles found at 66% of survey sites

CORN ROOTWORM SURVEY 2017



- Averages decreased across all 9 crop districts from 2016 to 2017
- District averages were uniformly low, no higher than 0.3 per plant

CORN ROOTWORM AVERAGES 20-YEAR TREND 1994-2017



CORN ROOTWORM OUTLOOK 2018

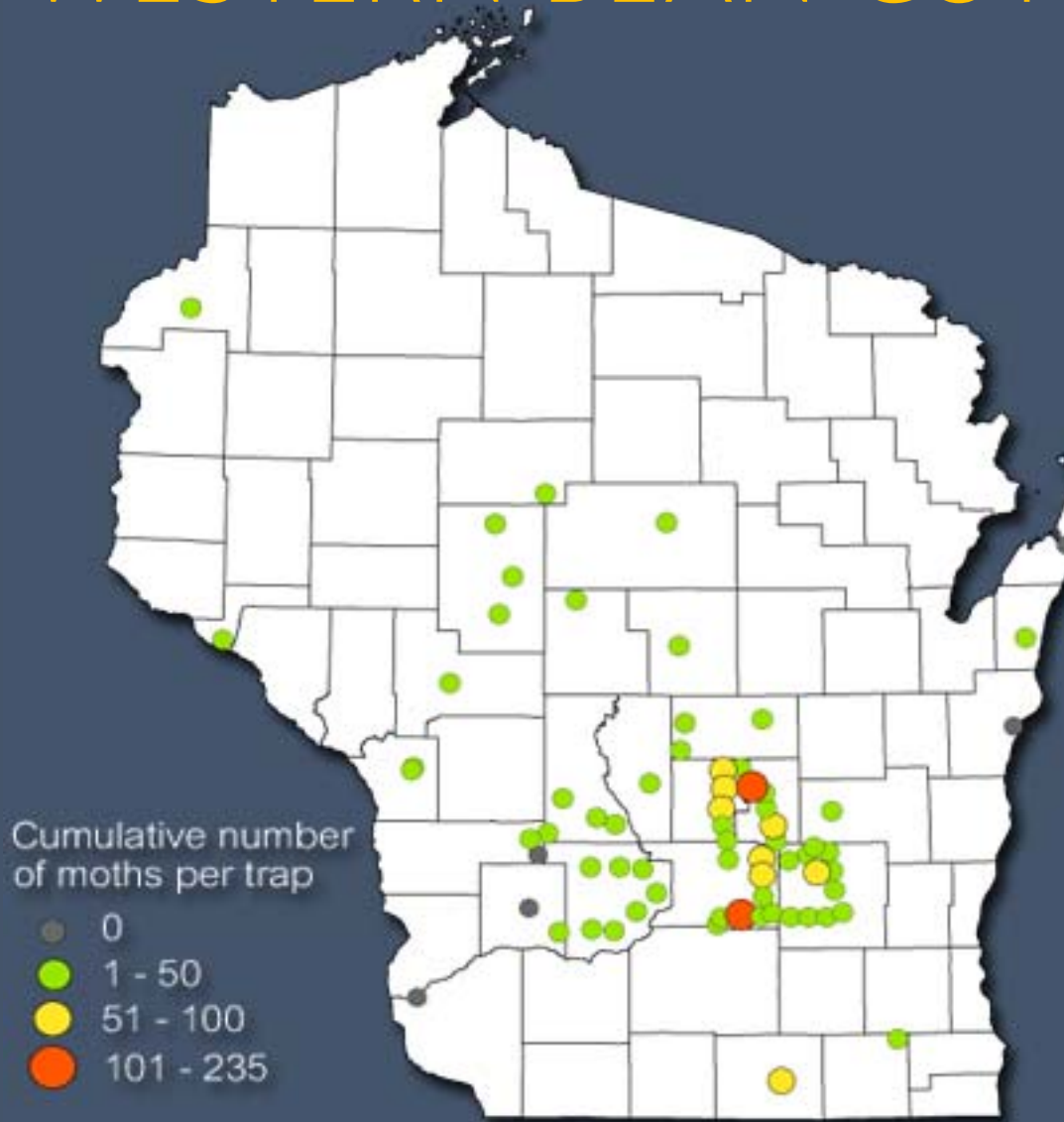


- CRW beetle populations were historically low in 2017
- Beetle pressure expected to be similar, perhaps slightly higher, across WI in 2018
- Rotate crops, rotate traits, and scout corn fields!

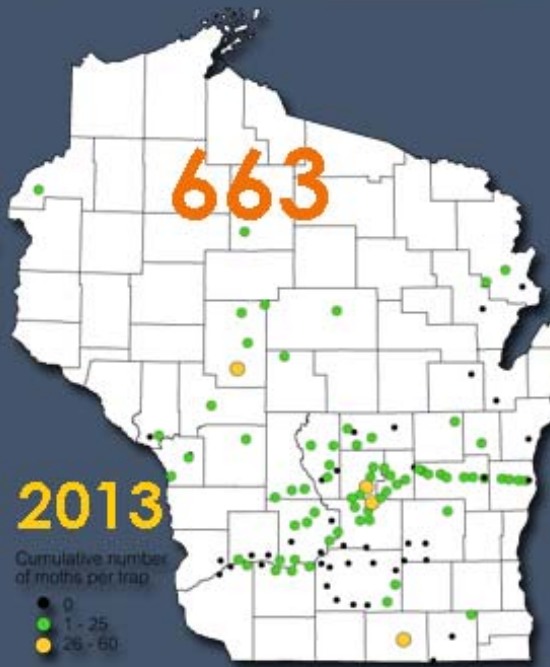
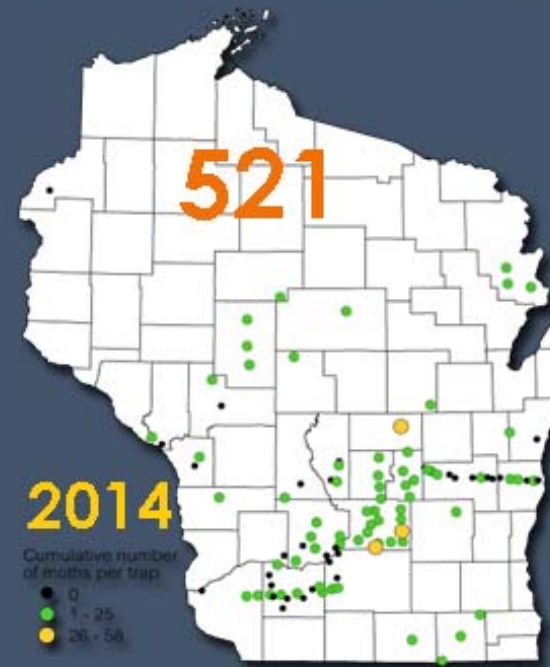
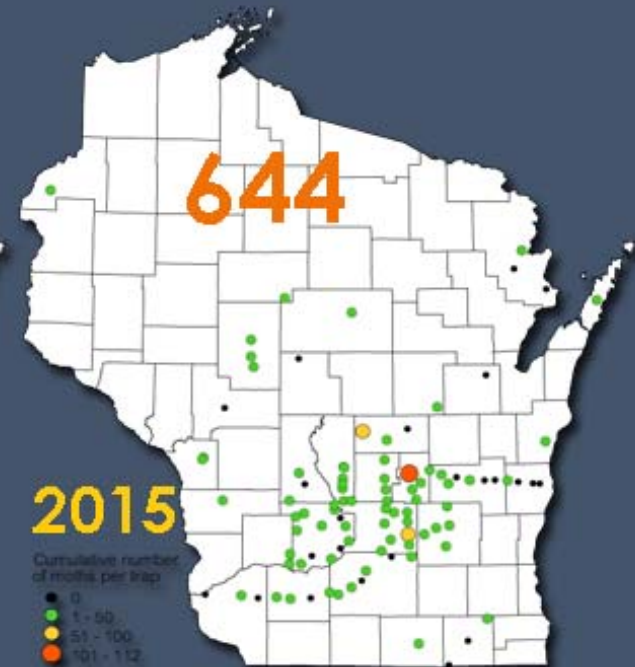
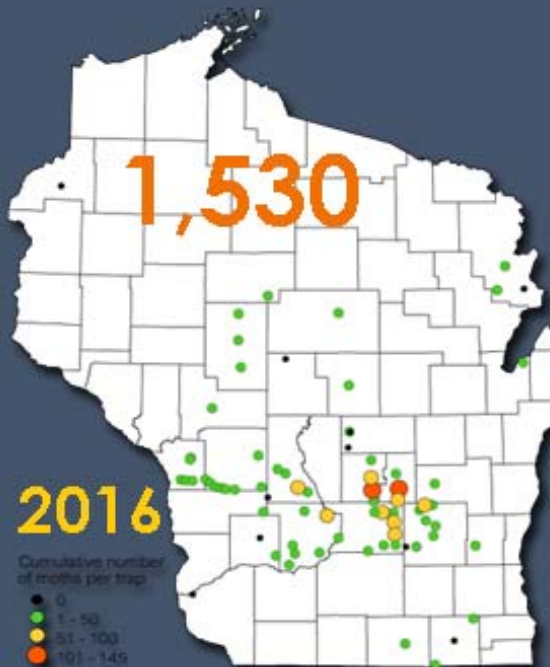
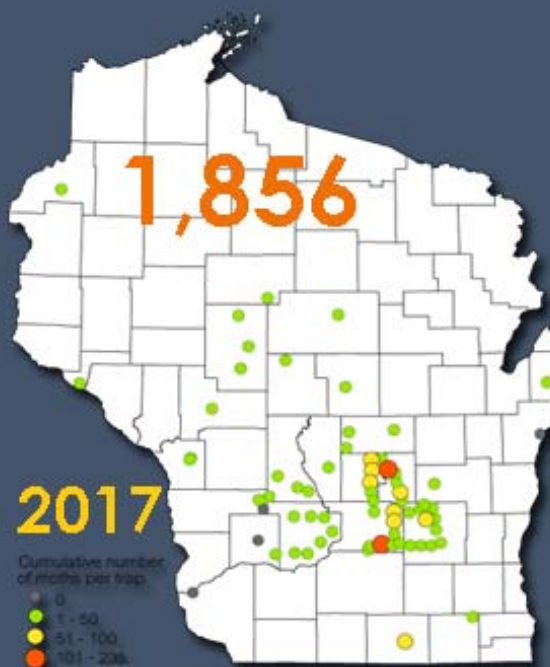
WESTERN BEAN CUTWORM



WESTERN BEAN CUTWORM SURVEY



- 70 traps set June-August
- Annual Total Moth Count:
 - 2017:** 1,856 or 27 per trap
 - 2016:** 1,530 or 20 per trap
 - 2010:** 10,807 or 79 per trap
 - 13-year:** 23 moths per trap
- Moth counts increased for the second consecutive year, but remained low overall



WBCW OUTLOOK FOR 2018

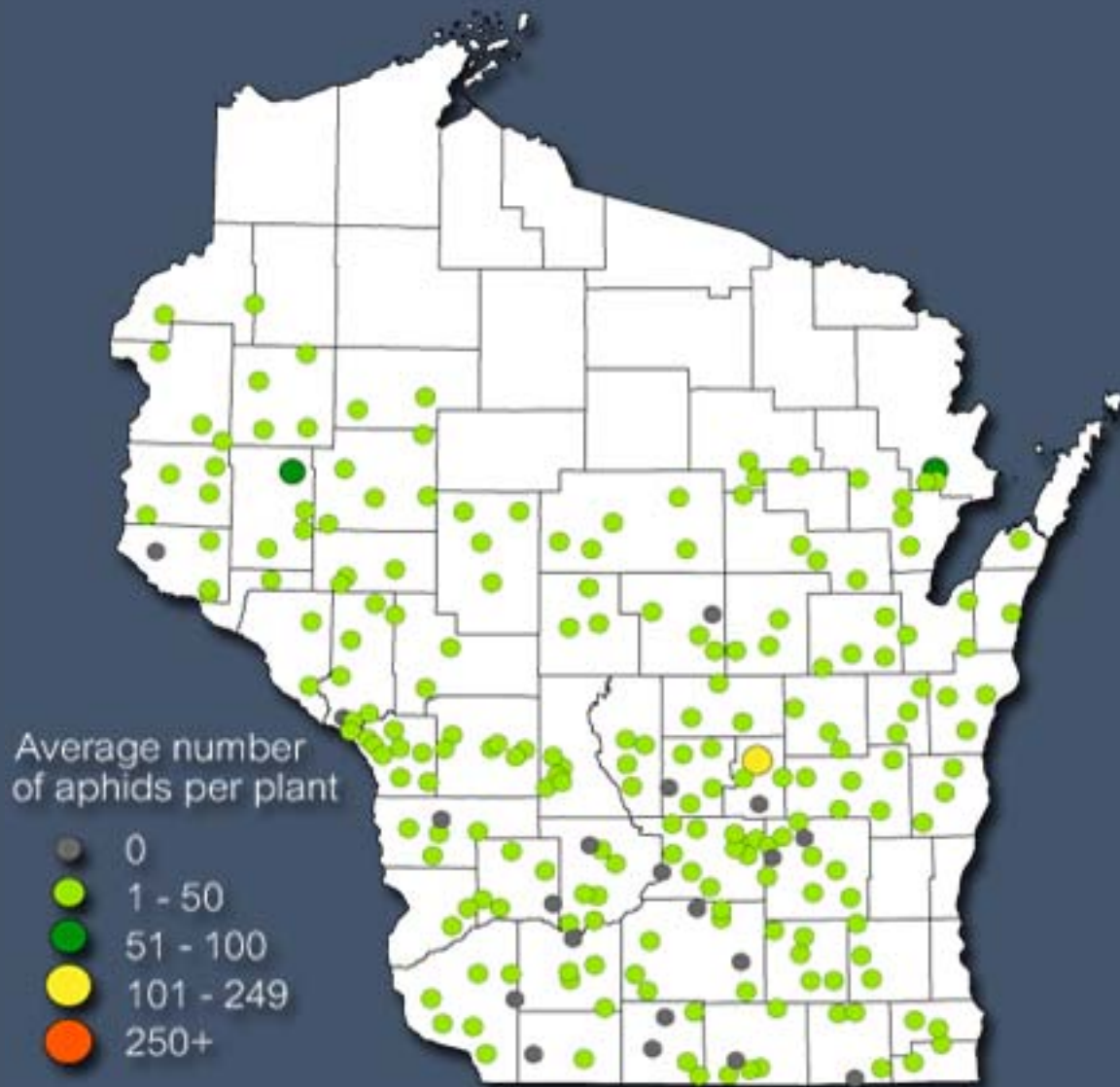


- WBCW is a regional (not statewide) threat, mainly in central and south-central WI
- Choose hybrids accordingly (Only those with Vip3A protein provide reliable wbcw control; HX1/Cry1F does not)
- Begin scouting for egg masses and small larvae at 1,320 gdd

SOYBEAN APHID

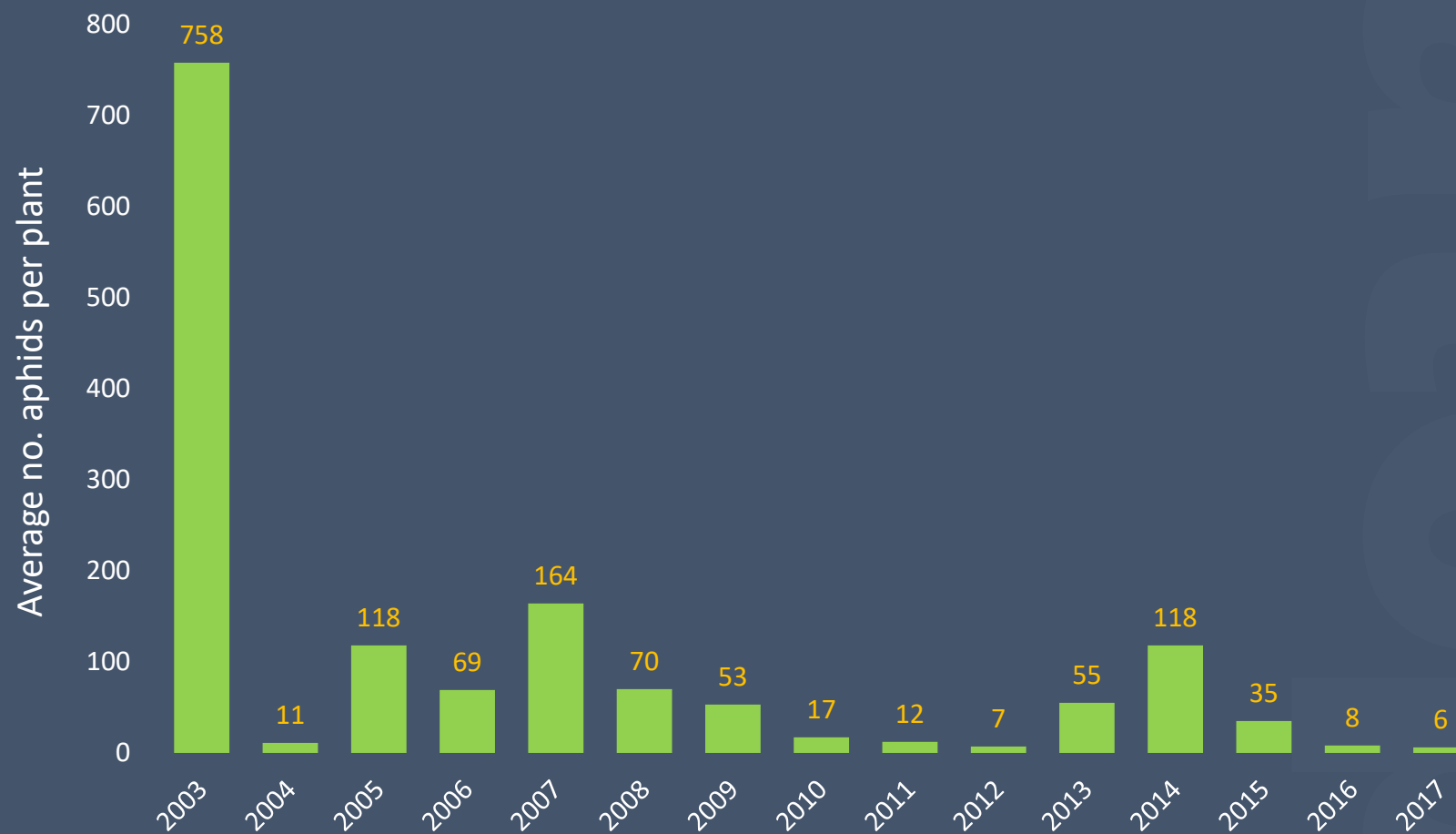


SOYBEAN APHID SURVEY 2017



- 228 soybean fields sampled July 20-Aug 20
- 96% of sites had fewer than 50 aphids per plant
- State average count of 6 aphids per plant is the lowest in 15 years of surveys

SOYBEAN APHID AVERAGES 15-YEAR TREND 2003-2017



SOYBEAN APHID OUTLOOK 2018



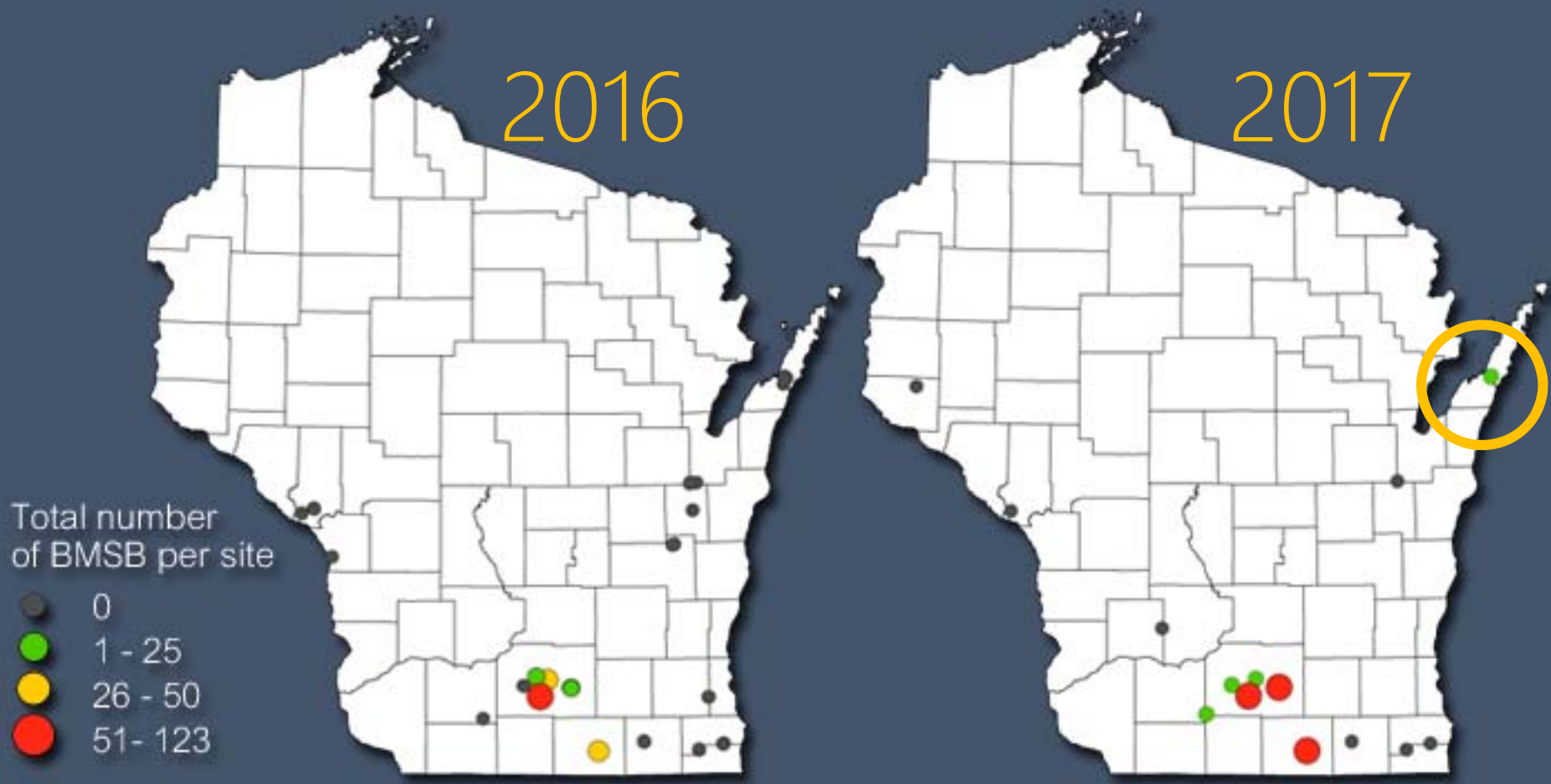
- DATCP surveys indicate aphid densities have been mostly low since 2010
- Natural enemies continue to be very effective at regulating aphids
- Continue to use 250 aphid per plant action and DO NOT spray early or preventively

BROWN MARMORATED STINK BUG

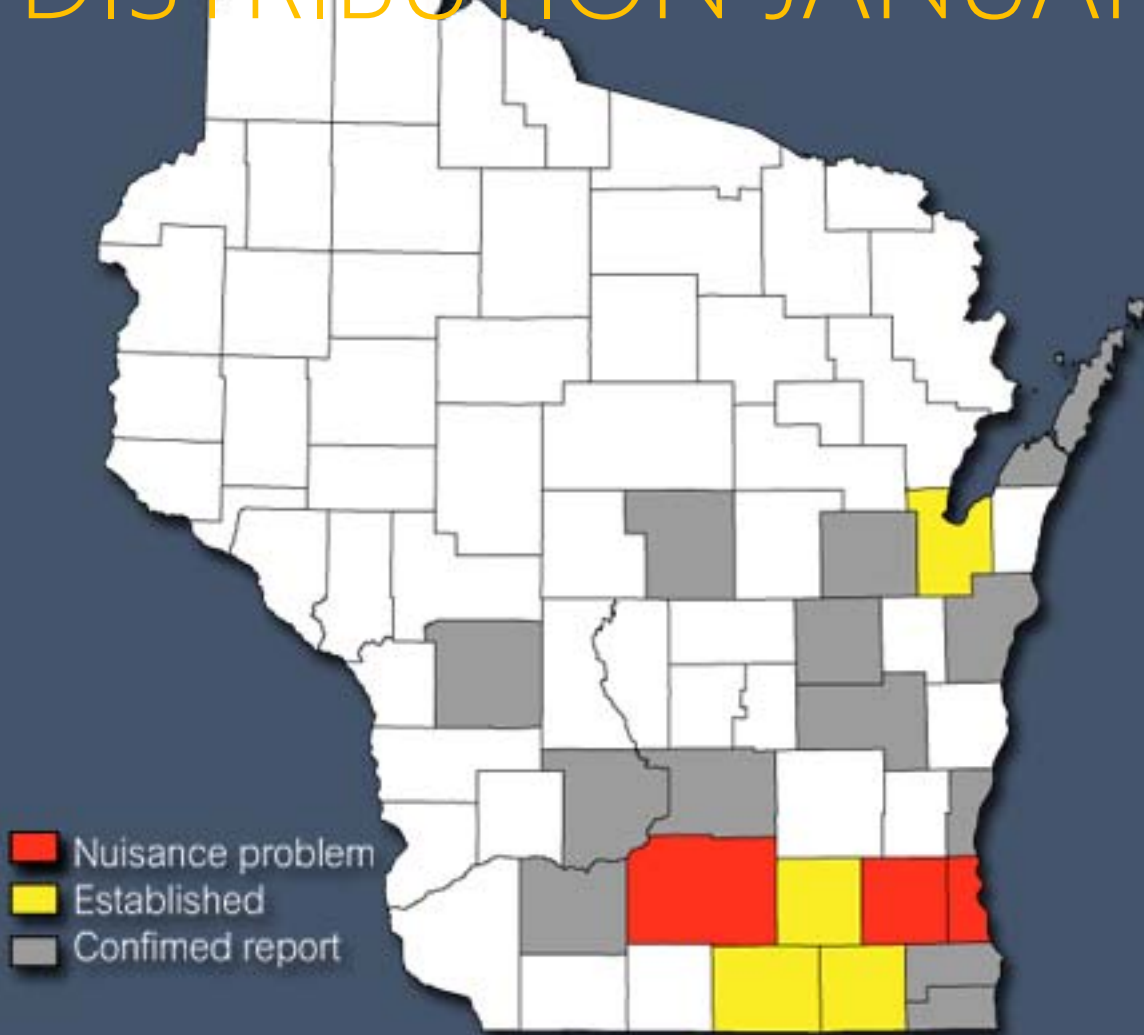
A close-up photograph of a brown marmorated stink bug (Hemiptera: Pentatomidae) perched on a green, hairy plant stem. The bug has a brown, mottled pattern on its back and is facing right. The plant stem is covered in fine, white, hair-like structures. In the background, there are green leaves with some small holes, suggesting damage to the plant.

- First detected in WI in 2010
- 18 confirmed reports 2010-14
35 cases in 2015 alone
- Established in Dane County
by 2015

BROWN MARMORATED STINK BUG UW, DATCP, IPM INSTITUTE SURVEYS

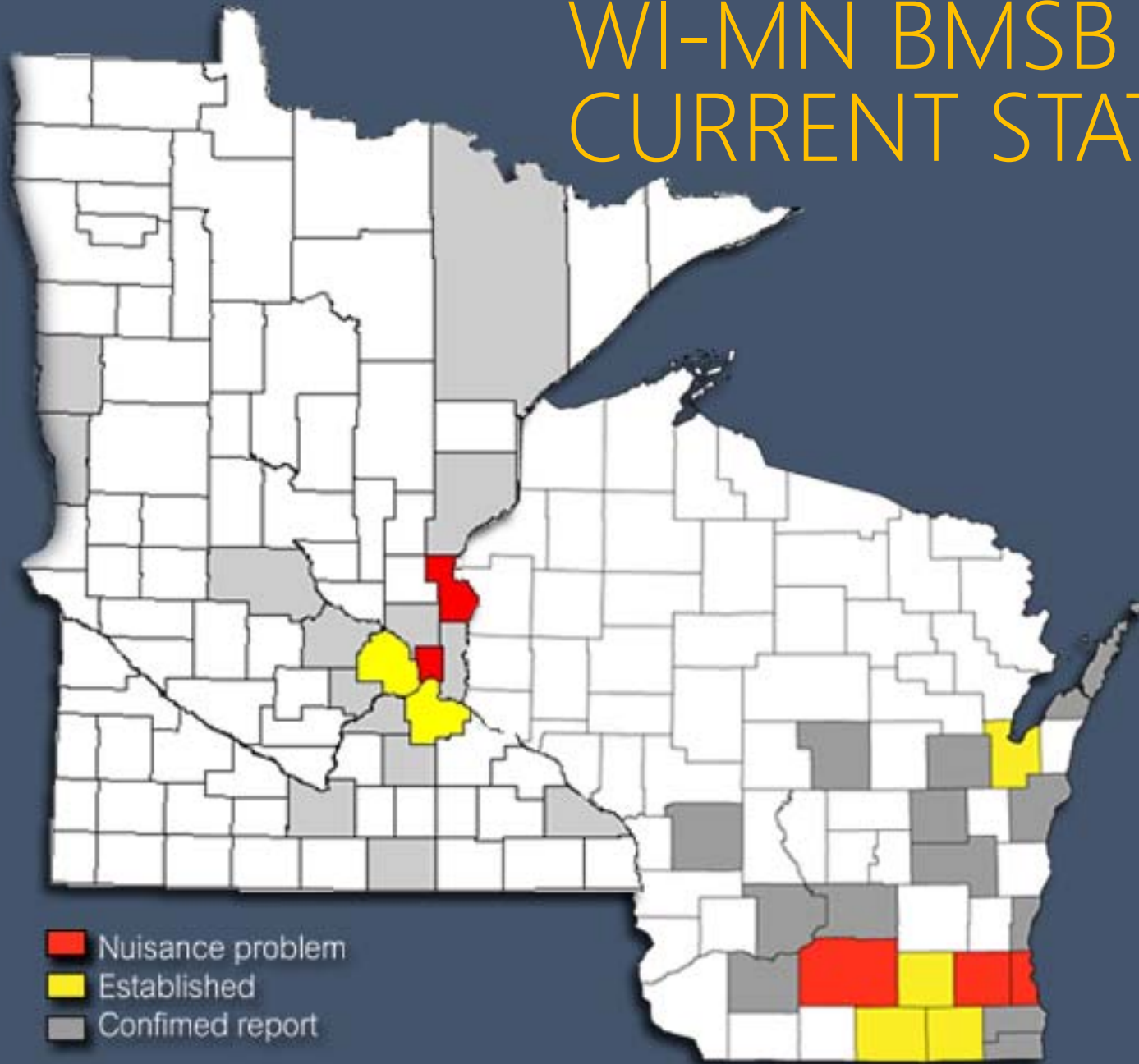


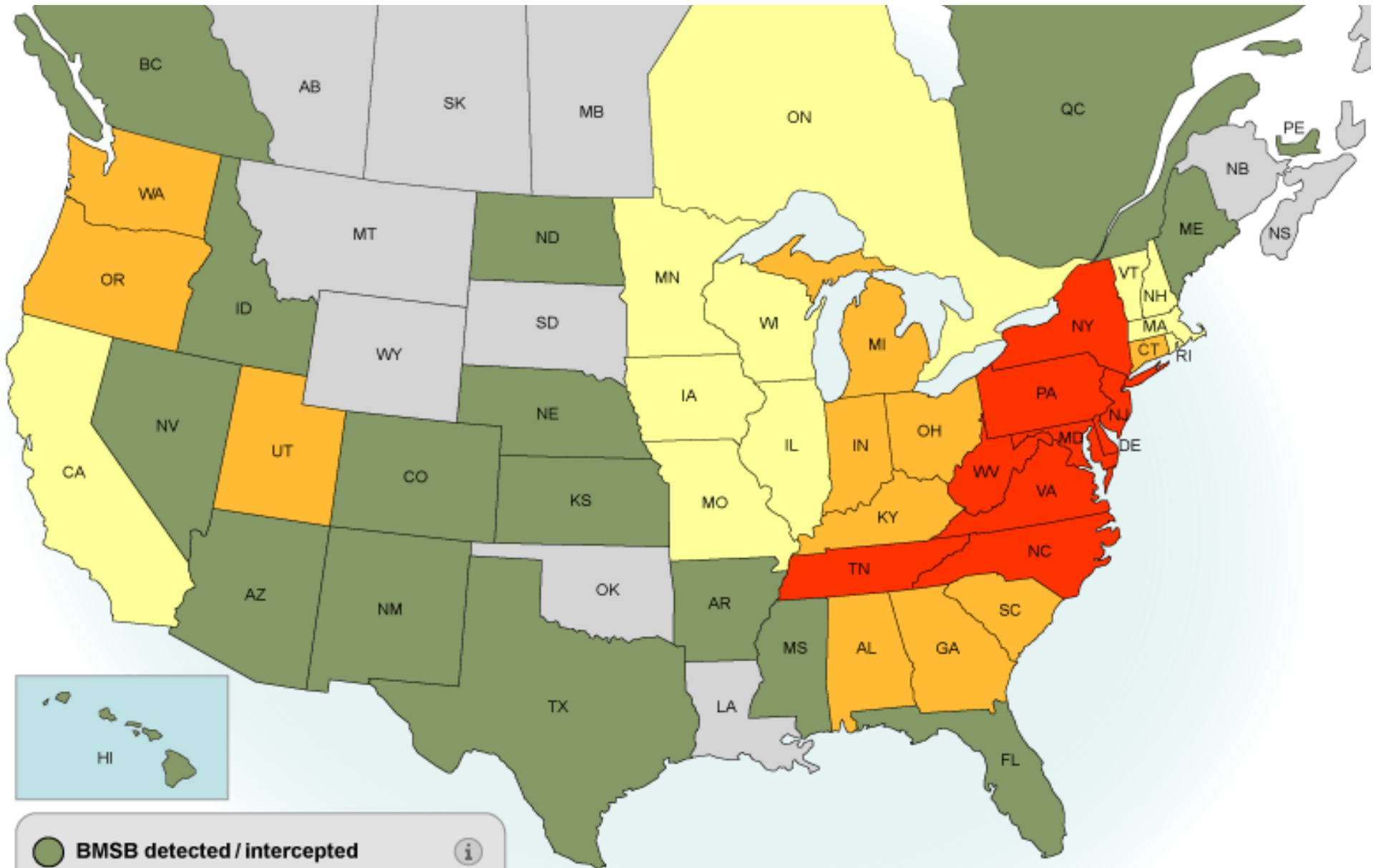
BROWN MARMORATED STINK BUG DISTRIBUTION JANUARY 2018











- BMSB confirmed in 20 counties since 2010
- Established in at least 7 counties, probably others
- Most reports from the Madison, Waukesha and Green Bay areas

WI-MN BMSB CURRENT STATUS





	BMSB detected / intercepted	
	Nuisance problems only	
	Agricultural and nuisance problems	
	Severe agricultural and nuisance problems reported	

www.stopbmsb.org

Updated: 9/20/2017

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