



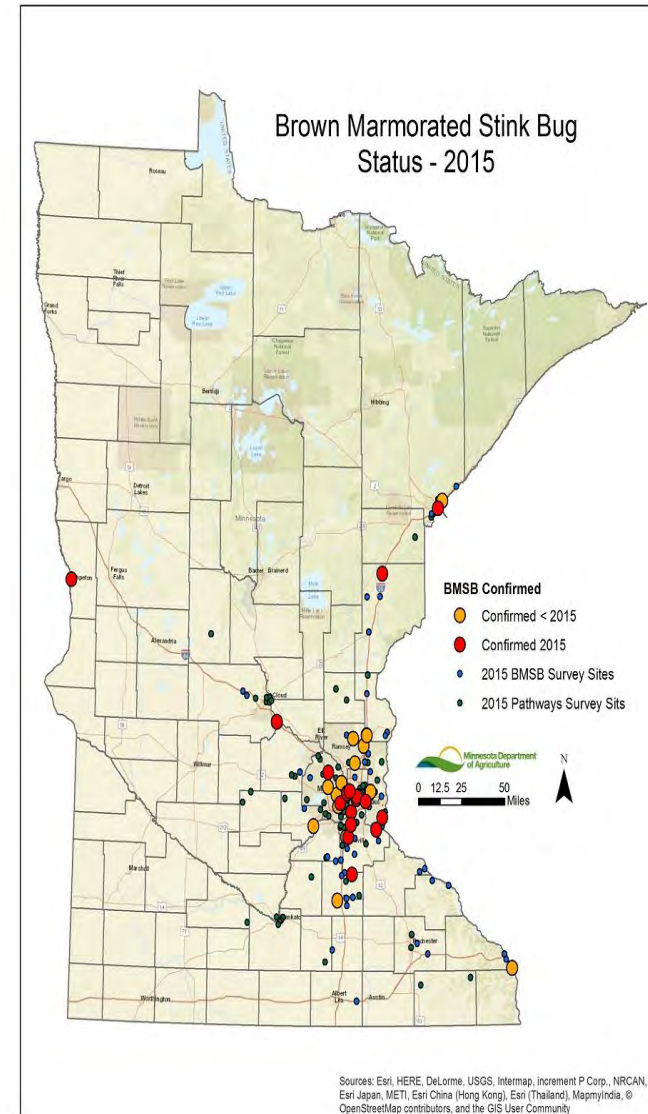
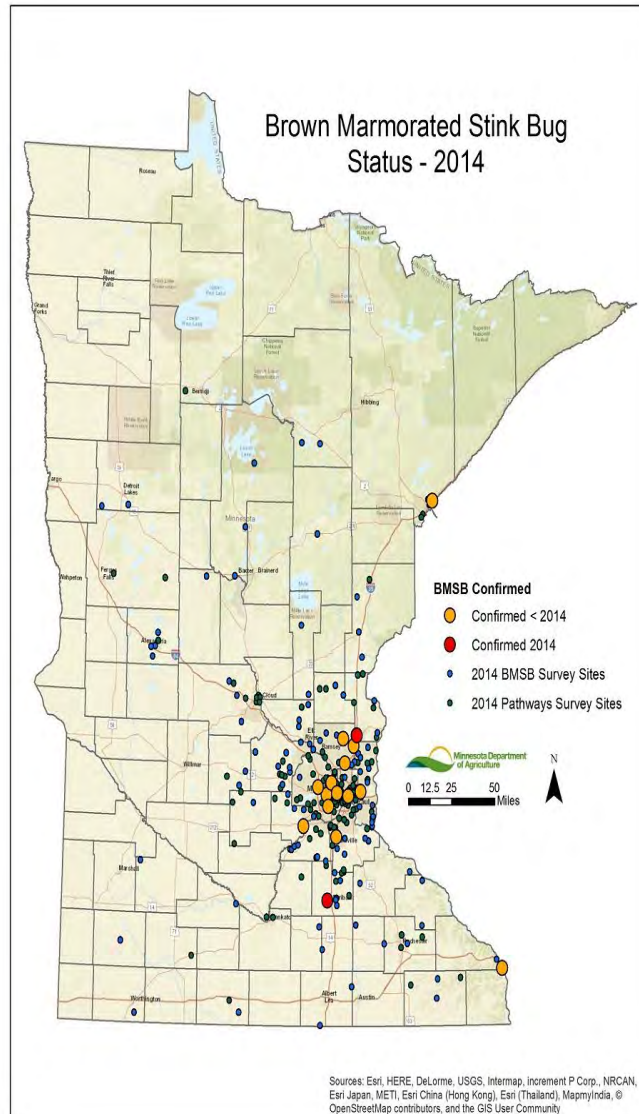
Status of Brown Marmorated Stink Bug in the Great Lakes Region

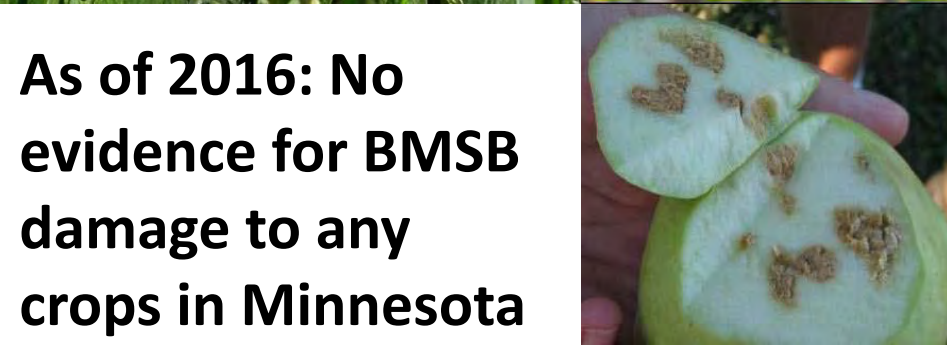


G. Brust

Increase in BMSB Trap Catch, MN: 2014 to 2015

- UMN, Entomology, Hutchison, Burkness, Koch, Philips
- Minn. Dept. of Agric., Mark Abrahamson, Angie Ambourn





***BMSB* in Minnesota**

- 2010: 1st detection confirmed
- Recent: Increasing frequency & magnitude of household invasions
- Primarily: Adult detections in traps
- & MDA, “arrest the pest” calls
- **--2016--**
- Wyoming, MN (north of St Paul)
 - Reproducing population
 - Successful overwintering (2013-2016)
- Increase in Adult + Nymph sites
 - Soybean, Rosemount
 - 7-county metro area

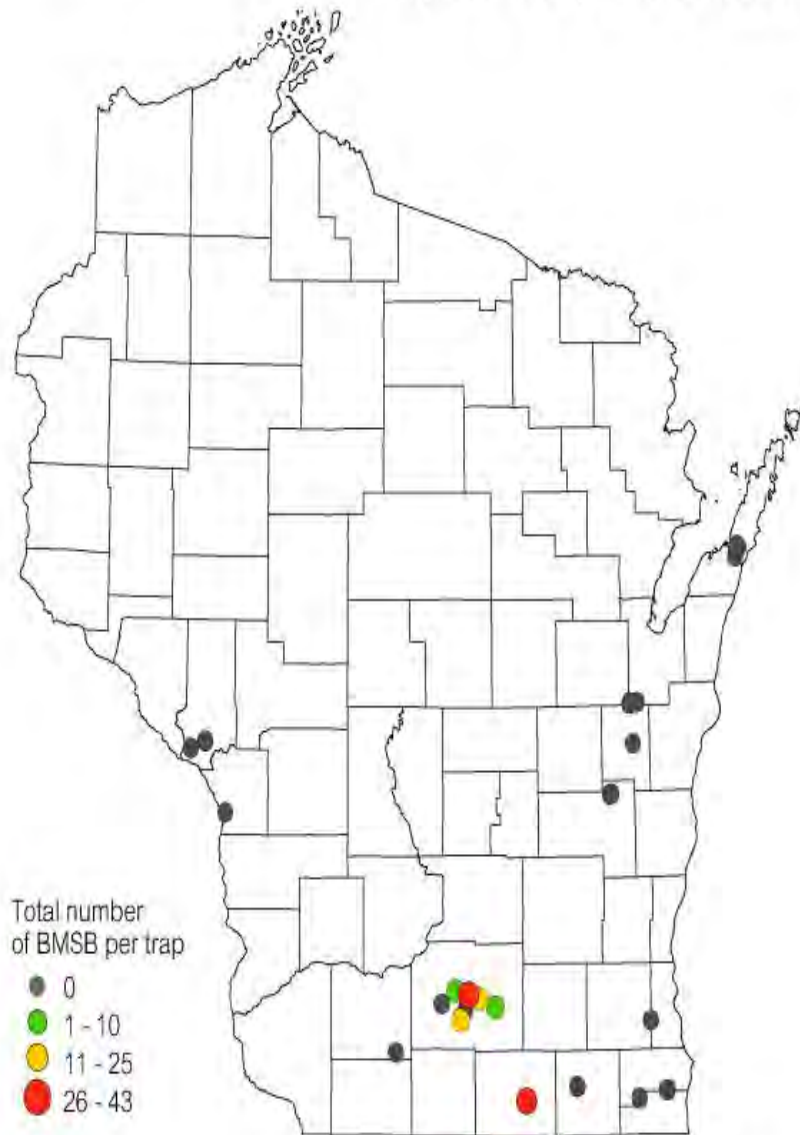
As of 2016: No evidence for BMSB damage to any crops in Minnesota

Brown Marmorated Stink Bug Survey 2016

Trap counts July 27 to October 5

BMSB in Wisconsin

- Wisconsin Dept. of Agric., Trade & Consumer Protection
 - *Krista Hamilton*
- UW-Entomology
 - *Christelle Guedot*
- IPM Institute, Madison, WI



Wisconsin BMSB Summary: 2010--2016

- 2010: 1st detection, confirmed (UW Entomology)
- 2010-2015: 18 confirmed detections
- 2015: 35 confirmed detections
- 2016: Major expansion in traps (51 traps, 12 counties)
 - July 15-27th, UW-Madison campus: 1st Adults + Nymphs trapped in WI
 - Also trapped in Dane, Rock counties (south-central)
 - Oct 6th: Cumulative catch, state-wide: 112 BMSB for all traps (43 in one trap)
 - "reproducing populations firmly established, south-central WI"
 - Confirmed in 16 counties
 - No crop damage reported



BMSB in Michigan



- 2010: 1st detection in SW MI
- Confirmed presence in
 - 6 counties in 2011*
 - 13 counties in 2012*
 - 15 counties in 2013*
- Statewide monitoring network - 2014
- (120 individuals trapped)
- Confirmed presence in
 - 21 counties in 2014*
- Encourage public to report sightings
 - 46 counties in 2015*
 - 52 counties in 2016*
- Fruit injury occurred in 2016 in a number of apple orchards



MSU AgNews article

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Report sightings of brown marmorated stink bugs in your home or business

Report sightings of brown marmorated stink bugs to the Midwest Invasive Species Information Network in order to help Michigan fruit, vegetable and ornamental plant growers identify potential hotspots.

Posted on **September 25, 2015** by [Julianna Wilson](#), Michigan State University Extension, Department of Entomology



Julianna Wilson

September 25 · Edited ·

Posted on Social Media

Michigan friends: have you or someone you know seen the brown marmorated stink bug? It likes to get into houses and other manmade structures at this time of year especially. If so, please consider reporting it on the MISIN website or app - read more about how in the article linked here and please pass it on! Thanks!



Report sightings of brown marmorated stink bugs in your home or business

Report sightings of brown marmorated stink bugs to the Midwest Invasive Species Information Network in order...

MSUE.ANR.MSU.EDU


Sept 25: Michigan Master Gardeners Association posted link, 235 shares

Oct 19: WILX – 639 shares of the interview

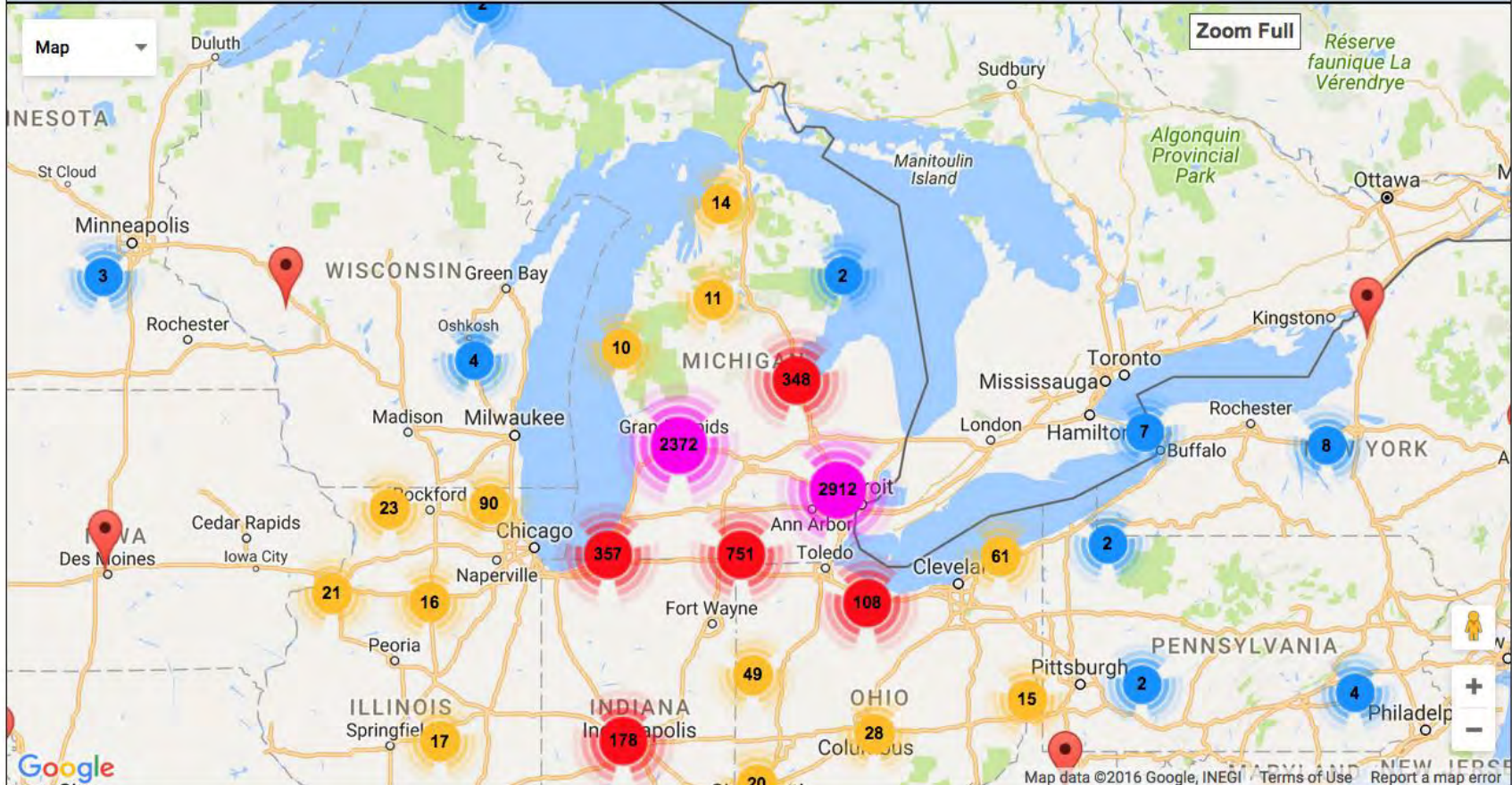


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Search by Species
Search by Geography
Search by Project
Search by Contributor

Reported Species Observations



Messages:





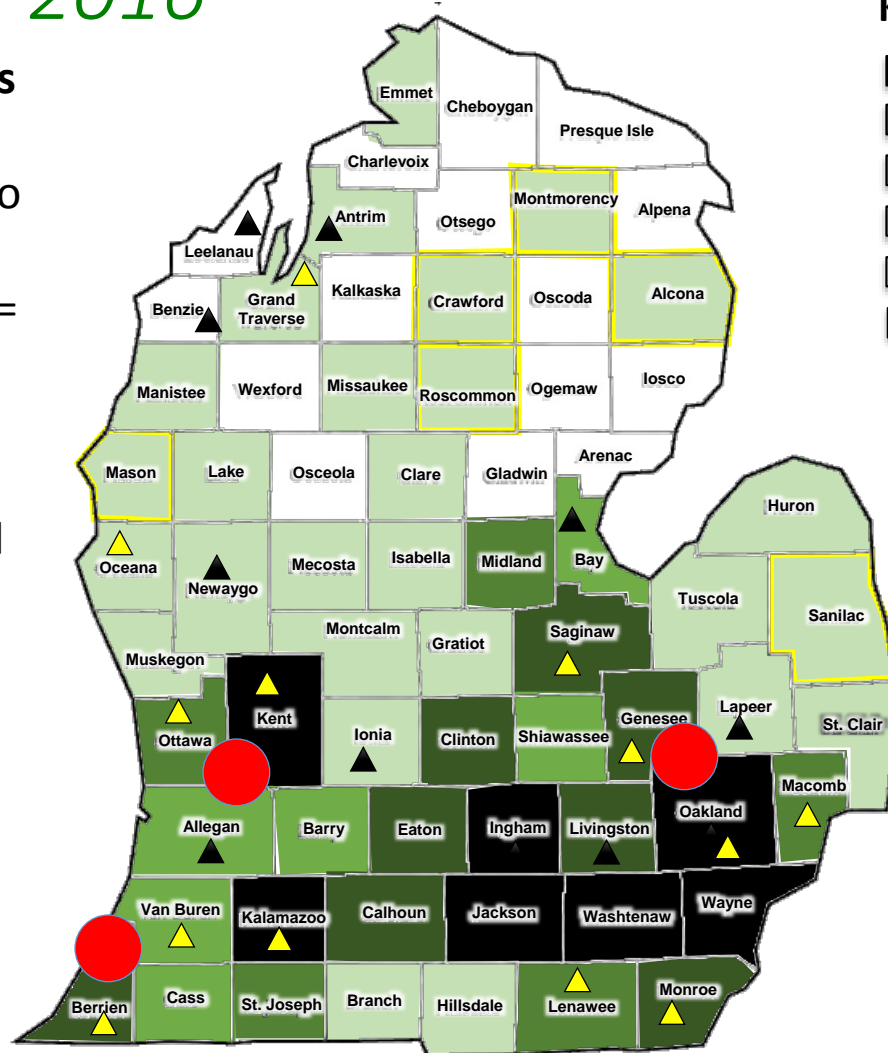
Michigan as of October 2016

Residential detections as of October 2016:

55 counties including two in the Upper Peninsula (Houghton, Keweenaw) = 7 new counties (yellow border).

Counties with suspected or confirmed BMSB damage in orchards during 2016 season:

- Berrien
- Genesee
- Kent
- Muskegon
- Ottawa
- Van Buren



KEY:

- 300 or more reports
- 100-299 reports
- 50-99 reports
- 25-49 reports
- 1-24 BMSB reported
- No BMSB reported
- ▲ BMSB caught in trapping network
- ▲ No BMSB caught in trapping network
- Tree fruit 'hot spot'

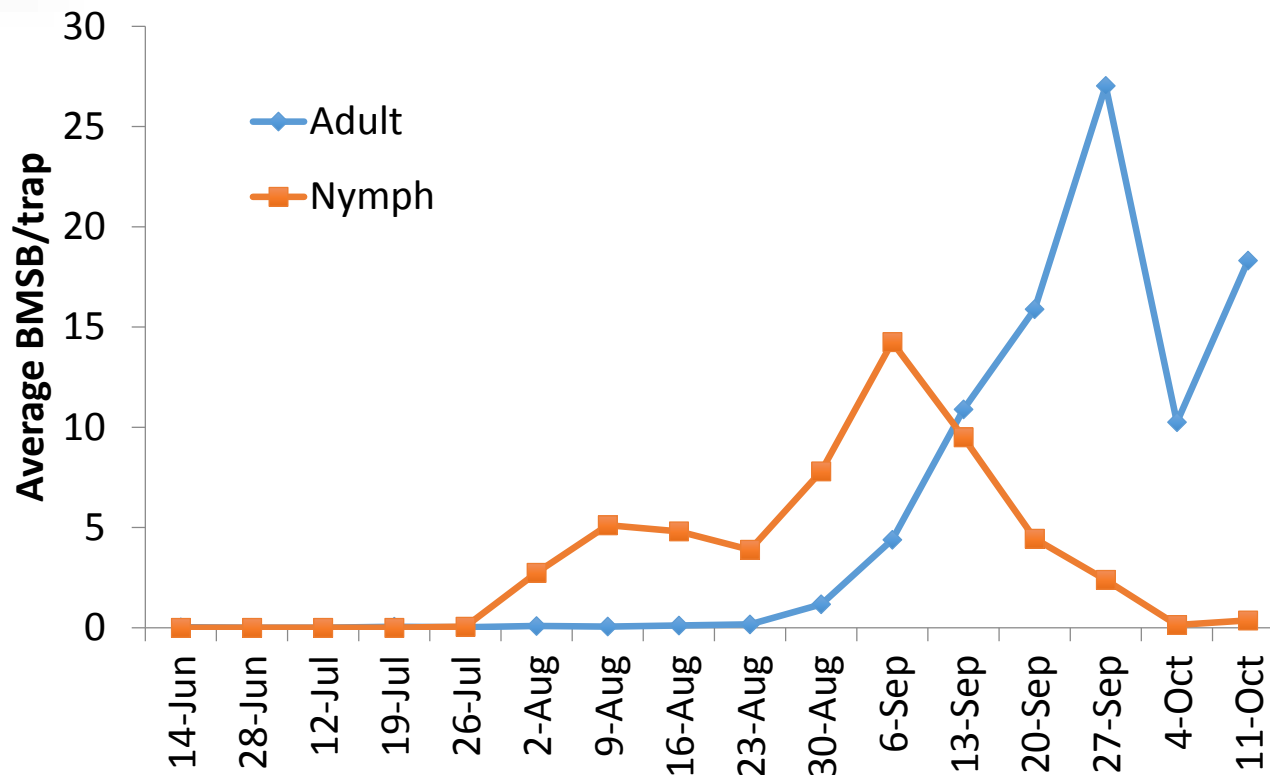


n = 6,540 records



Seasonal BMSB captures

- A few early adult catches in mid-June
- Consistent catch begins in late July/early Aug
- Peak captures in late September
- Total catch of 1,079 BMSB in 2015
- Total catch of 3,600 in 2016

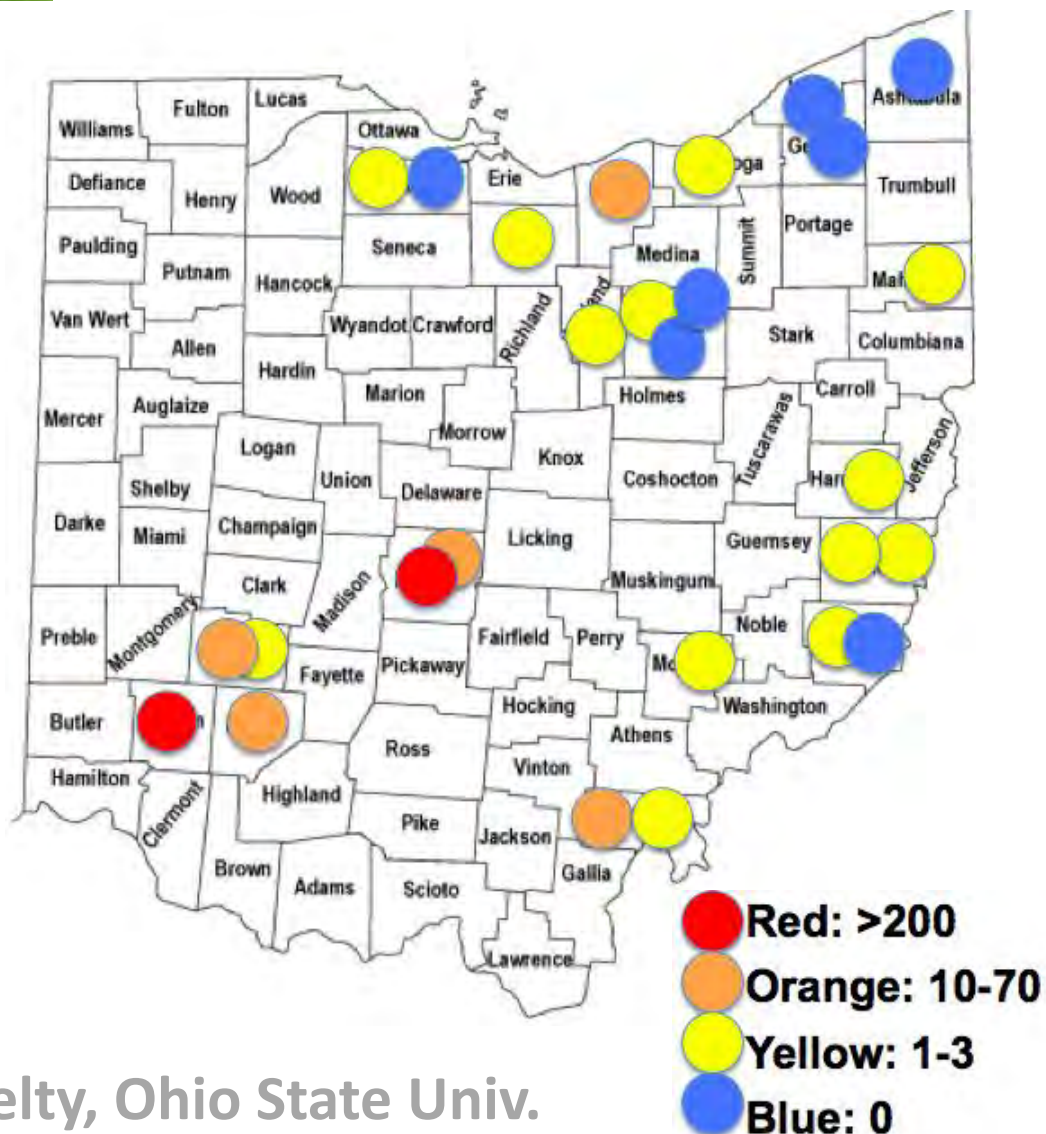




BMSB in Ohio, 2015
 traps in 18 of 88 counties,
 Mostly in sweet corn or brambles

Ohio

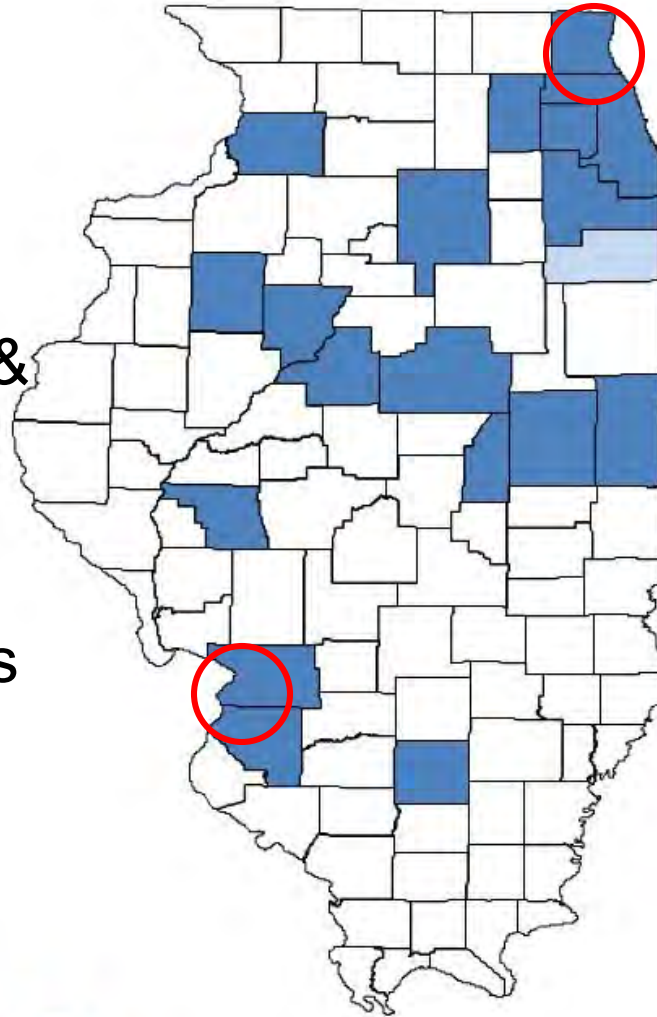
- first confirmed detection in Nov. 2007
- trapping program in about 25 locations since 2011.
- heavy populations only in a few urban centers (Columbus, Cincinnati, Youngstown) and very light in most rural areas
- heavy populations have been found on peaches, apples, raspberries, sweet corn, field corn, soybean. Occasional finds in peppers, Swiss chard, okra.



credit: Jim Jasinski & Celeste Welty, Ohio State Univ.

Illinois

- No update 2016
- Confirmed in 18 counties
- Highest near Chicago & St Louis
- Some fruit growers seeing bugs in buildings near orchards
- No significant crop damage reported



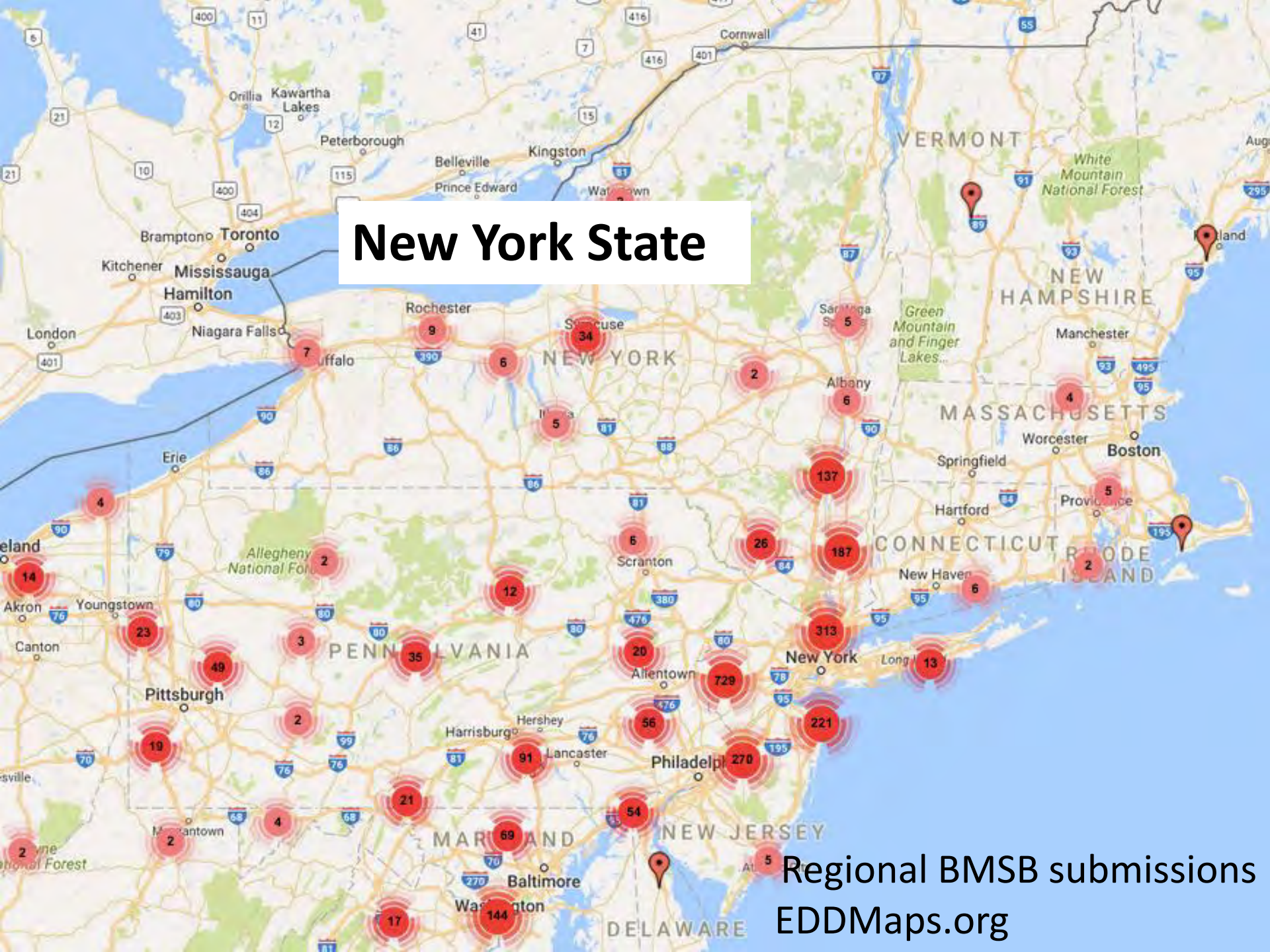
Brown Marmorated Stink Bug Confirmations	
County	Year Confirmed
Cook	2010
Kane	2011
McLean	2011
Champaign	2011
Du Page	2012
Vermilion	2012
Whiteside	2012
Madison	2012
Morgan	2012
St. Clair	2013
Tazewell	2013
LaSalle	2013
Piatt	2013
Jefferson	2013
Will	2013
Kankakee*	2013
Lake	2014
Knox	2014
Peoria	2014

** suspected, but unconfirmed*



Kelly Estes, State Survey Coordinator
Illinois Cooperative Agricultural Pest Survey Program

New York State



Regional BMSB submissions
EDDMaps.org



Welcome to BMSBNY

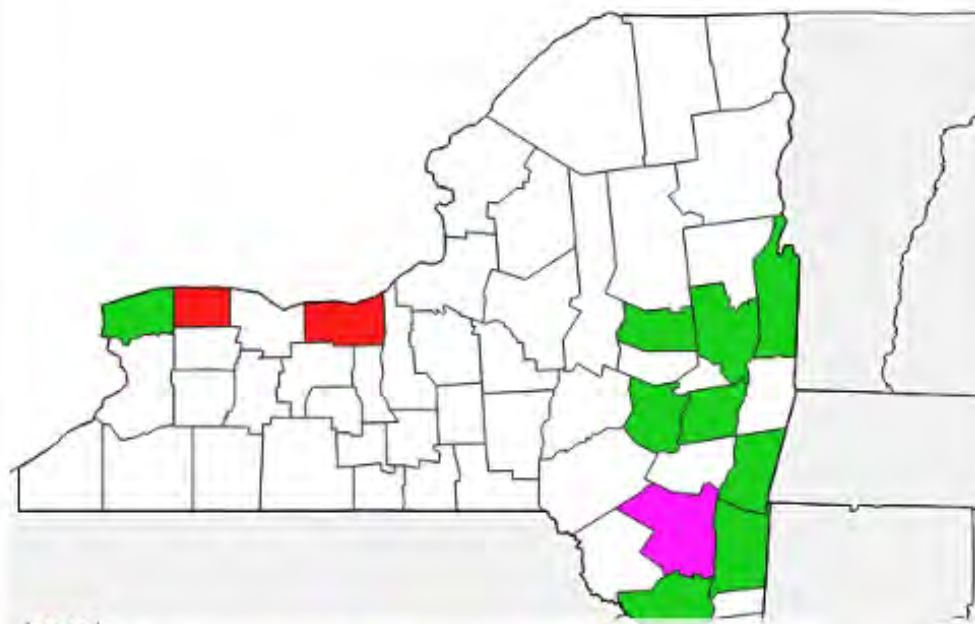
2016 Monitoring

[BMSB Detections since 2010](#)

[US Counties](#)

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Brown Marmorated Stinkbug Monitoring - 8-30-2016 to 9-9-2016



Legend

- Monitoring but no adults caught
- Under 10, no damage
- Under 10, <1% damage
- 10 or more, no injury
- 10 or more, <1% damage
- 10 or more, ≥1% damage

Project Management

[Site Management](#)

[User Management](#)

[Assign Users to Sites](#)

[View Master Site Users Assignment List](#)

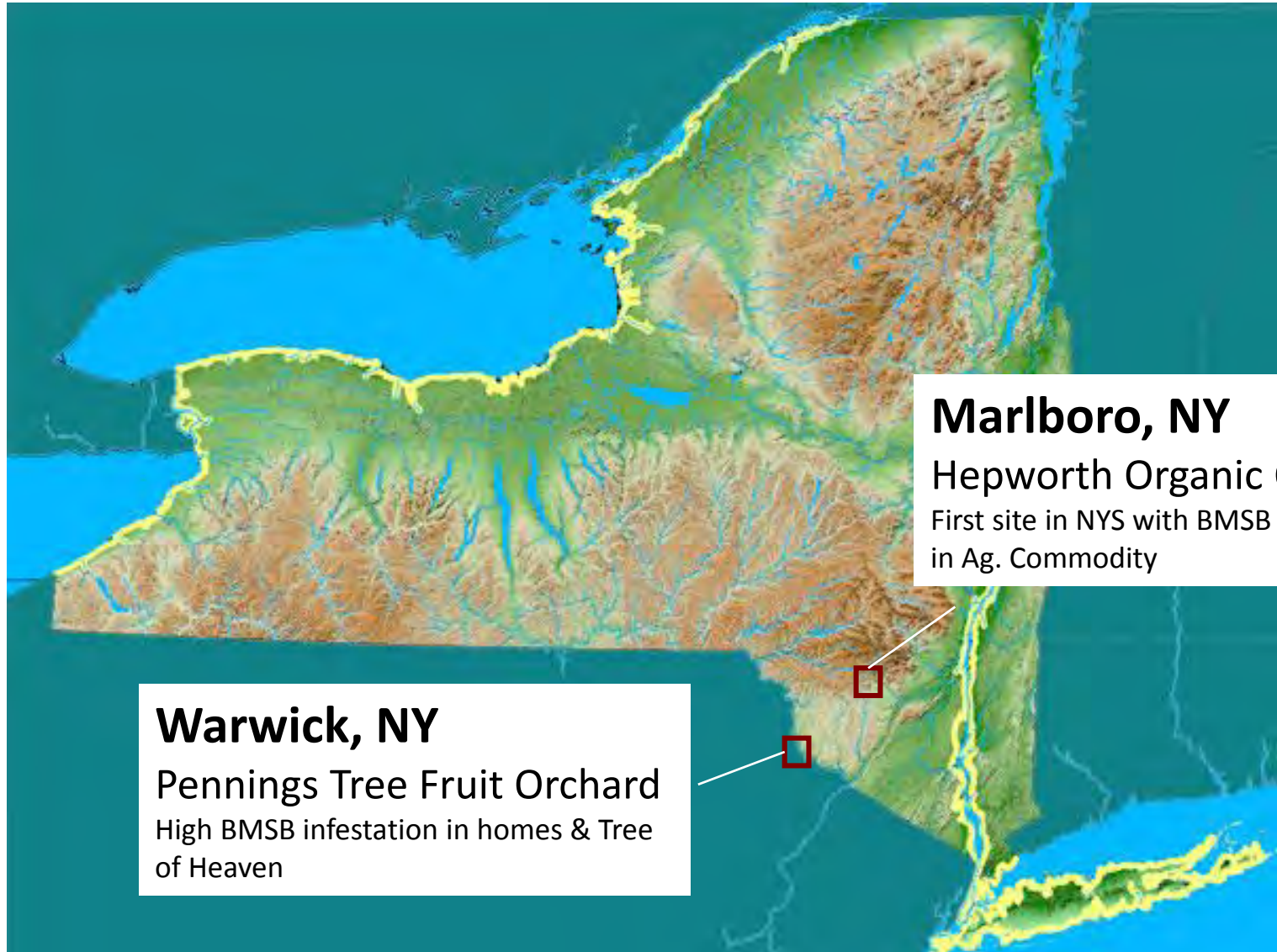
Project Forms

[Single Site Data Entry](#)

Recent Data Entry

Date Checked	Reporter
09/09/2016	Peter Jentsch Cornell University
09/09/2016	Peter Jentsch Cornell University
09/08/2016	Peter Jentsch Cornell University
09/05/2016	Peter Jentsch Cornell University
09/05/2016	Peter Jentsch Cornell University
09/01/2016	Peter Jentsch Cornell University
09/01/2016	Peter Jentsch Cornell University
09/01/2016	Peter Jentsch Cornell University
08/25/2016	Peter Jentsch Cornell University

BMSB Sentinel Egg Mass Survey in NY State



Marlboro, NY

Hepworth Organic Orchard
First site in NYS with BMSB infestation
in Ag. Commodity

Warwick, NY

Pennings Tree Fruit Orchard
High BMSB infestation in homes & Tree
of Heaven



Hepworth



Emergence Dates	Site	GPS	Parasites emerged from eggs		
8-Sep	Hepworth 3	N 41.638144, E -73.963799	17	85%	100% <i>T. japonicus</i>
9-Sep	Hepworth 4	N 41.634916, E -73.966771	4	80%	100% <i>T. japonicus</i>



Trissolcus japonicus emerging from a BMSB egg
(Photo credit: Elijah Talamas)