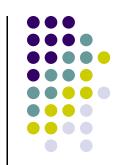
The Plague of the Brown Marmorated Stink Bug





March 19, 2011*

Eastern Branch, Entomological Society of America

Revised Agenda

- 8:00 Introduction. Tom Kuhar, Virginia Tech and Tracy Leskey, USDA-Appalachian Fruit Station
- 8:10 A brief history of that first spotting in the U.S., probable mode of dispersal, and web traffic to BMSB factsheet. Karen Bernhard and Steve Jacobs, Penn State Cooperative Extension
- 8:25 Basic biology of BMSB, current spread in North America, and research plans for 2011. George Hamilton, Rutgers University
- 8:50 Insecticide toxicity data from Virginia and research plans in 2011. Tom Kuhar, Virginia Tech
- 9:00 BMSB activities in ornamental systems and research plans for 2011. Paula Shrewsbury, Mike Raupp, and Holly Martinson, University of
 - Maryland
 - 9:15 Damage Assessments of BMSB in NJ Fruit Crops and research plans for 2011. Dean Polk, Rutgers NJAES, PE Marucci Center for Blueberry & Cranberry Research & Extension
- 9:30 Impact of BMSB on wine grapes and research plans for 2011. Doug Pfeiffer, Virginia Tech
- 9:45 BMSB impact on vegetable and field crops in the Mid-Atlantic and research plans for 2011. Galen Dively, University of Maryland
- 10:00 Break
- 10:10 BMSB impact on tree fruit, update on trapping/monitoring research, and research plans for 2011. Tracy Leskey, USDA-ARS Appalachian Fruit Station
- 10:30 BMSB Management in Orchards and research plans for 2011. Greg Krawczyk, Penn State
- 10:45 BMSB from the perspective of an urban PCO. Rick Cooper, Rutgers

Q & A. General Discussion

11:30

- 11:00 BMSB Management Options and Strategies from a Plant Protection Industry Perspective. Jim Steffel, LABServices
- 11:15 Natural enemies of the BMSB and prospects for classical biological control. Kim Hoelmer, USDA-ARS Beneficial Insects Lab,
- 11.15 Natural eliennes of the bivists and prospects for classical biological control. Ann noether, osda-aks beneficial insects lab,

The Threat Posed By BMSB

- BMSB has become a pest of almost unprecedented importance to agriculture and also a serious nuisance pest, particularly in the mid-Atlantic. Potential for increased problems as it continues to establish in other regions.
- We have much to learn about BMSB, particularly basic biological and ecological questions.
- Respond rapidly to the needs of stakeholders.
- BMSB will require a sustained cooperative, collaborative, and integrated approach for research and Extension on a national scale.



Orchard Crops





Vegetables



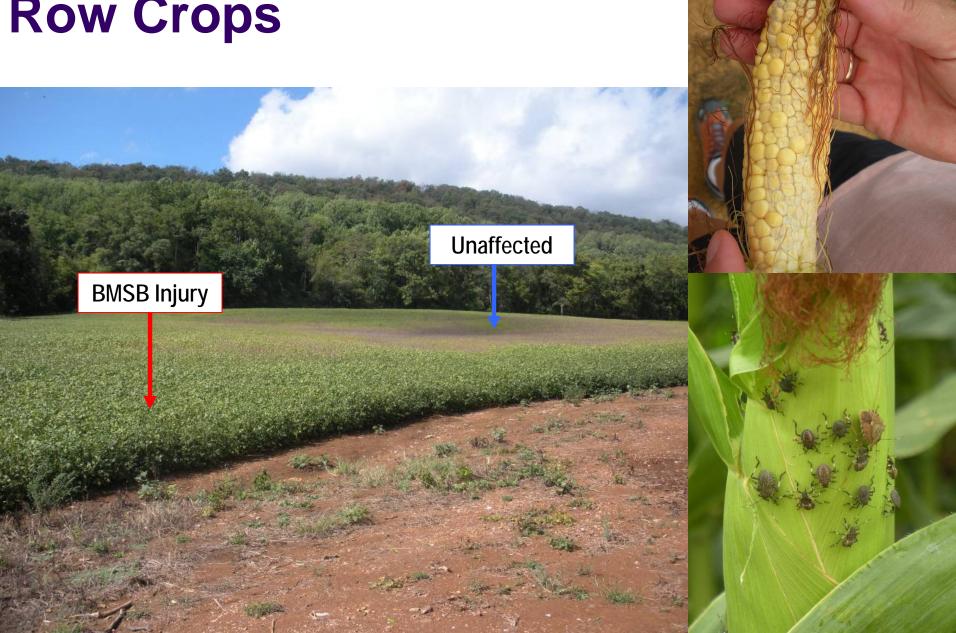




Small Fruit and Grape



Row Crops



Ornamentals and Nursery Crops







The New Hork Times



The Washington Post





Money









The Philadelphia Inquirer





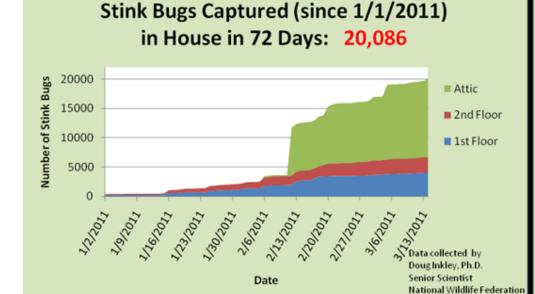
Nuisance Pest







Kelli Wilson and her father, Richard Lee Pry, cleared stink bugs from her porch Friday in Burkittsville, Md. The shield-shaped invaders have damaged fruit and vegetable crops.



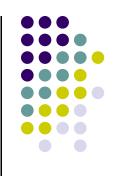
Symposium Celebrities





BMSB Working Group Meetings

June 20-21, 2011. Biglerville, PA.



November 29-30, 2011. Winchester, VA.





Brown Marmorated Stink Bug IPM Working Group: Overview

Funded in 2010, this working group held a two-day formal meeting on the Brown Marmorated Stink Bug at which members shared the latest research results and field observations and established research and extension priorities. Participants included researchers, extension personnel, growers, pest control operators, and a hotel manager. The working group hopes to secure funds for improving management of this increasingly important agricultural and urban pest.

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United States National Institute
Department of of Food and
Agriculture Agriculture

Research Priorities

- 1 Studies of basic BMSB behavior (host preferences, movement, and responses to cues)
- 2 Studies of basic BMSB biology (physiology, generations)
- 3 Standardized sampling methods (traps, lures, placement, timing)
- 4 Establish the identity of susceptible crops and their susceptibility periods
- 5 Mapping and assessment of BMSB distribution
- 6 Identification of the true BMSB pheromone
- 7 Development of monitoring strategies for urban areas and in agricultural settings
- 8 Determination of host utilization and preference and range
- 9 Impact of landscape/habitat on population density
- 10 Development of IPM-friendly management tactics
- 11 Define damage diagnostics and economics injury
- 12 Toxicity screening of known insecticides
- 13 Assessment of economic impact in urban environment
- Examination of cross attractancy of brown marmorated and green stink bugs to olfactory cues
- 15 Investigation of host plant volatiles as attractants
- 16 Identification of potential repellents
- 17 Identification of biocontrol agents-parasitoids, fungal pathogens, predators (native and foreign exploration)
- 18 Examination of potential of combining BMSB and Euschistus pheromones for monitoring
- 19 Synopsis of research to date from Japan
- 20 Assessment of displacement of native stink bugs



Overall Priorities

1	Research	Studies of basic BMSB behavior (host preferences, movement, and responses to cues)	
2	Research	Standardized sampling methods (traps, lures, placement, timing)	
3	Research	Studies of basic BMSB biology (physiology, generations)	
4	Research	Identification of the true BMSB pheromone	
5	Extension	Development of education programs for growers and general public (including movement, threat)	
6	Research	Mapping and assessment of BMSB distribution	
7	Regulatory	APHIS position statement about BMSB	
8	Extension	Creation of a unified web-based location as a repository for BMSB information	
9	Research	Development of IPM-friendly management tactics	
10	Research	Toxicity screening of known insecticides	
11	Extension	Education of professionals to identify BMSB and its damage	
12	Research	Impact of landscape/habitat on population density	
13	Research	Identification of biocontrol agents-parasitoids, fungal pathogens, predators (native and foreign expl	oration)
14	Extension	Development of a public awareness campaignposters, public service announcements, educational materials, etc	I
15	Regulatory	Product testing and labeling for new products	

Great Information Available



Executive Dean of Agriculture and Natural Resources | School of Environmental and Biological Scienc Jersey Roots, Global Reach How to Identify the Brown Marmorated Stink Bug NJAES Websites O All of Rutgers Report a Sighting of the Brown Marmorated Stink Bug O eXtension FAQ The Brown Marmorated Stink Bug has a "shield" shaped body that is characteristic of all stink bugs. The adults are Help us improve this website approximately 17 mm (5/8 inch) long with a mottled brownish grey color. The next to last (4th) antennal segment has a white band and several of the abdominal segments protrude from Need more beneath the wings and are alternatively banded with black and white. The underside is white, sometimes with grey or black Identifying the markings, and the legs are brown with faint white banding. Marmorated Stink Bug? More Information Contact your

> Cooperative Extension county

Get Involved

office for answers to your

About the Brown

How to Control the

Stink Bug

Brown Marmorated

How to Identify the

Marmorated Stink Bug



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Thursday, November 11, 2010

Brown Marmorated Stink Bug

The brown marmorated stink bug (Halyomorpha halys) is a new pest in North America. Adult bugs are 14-17 mm and dark mottled brown. The last 2 antennal segments have alternating light and dark bands. The exposed edges of the abdomen also have light and dark banding. Eggs are light green, barrel-shaped, and laid from June to August. The young bugs (nymphs) are yellowish and mottled with black and red. Older nymphs more closely resemble the adults. The host list is long and includes many shade trees and woody ornamentals such as Paulownia tomentosa (empress tree Buddleia spp.(butterfly bush), Catalpa spp., Rosa rugosa, Lonicera spp. (honeysuckle), and Acer platanoides (Norway maple). Feeding damage appears as small necrotic spots on leaves and fruit. These stink bugs can also be a nuisance in homes and buildings as they seek shelter in the fall much like Asian lady bird beetles and boxelder bugs.

Management: Prevent them from coming in the home by sealing up cracks with caulk, use weather stripping around doors and windows, remove up the bugs and place in an outdoor trash receptacle. It should be noted can be quite strong.

There are no chemical recommendations currently available for home use. For heavy infestations outdoors, contact a pest control professional.



Brown Marmorated Stink Bug, Halyomorpha halys (Stål)

I. Introduction: A new addition to the stink bug complex is brown marmorated stink bug, Halyomorpha halys (Stål). Brown marmorated stink window air conditioners, close all possible entry points. Inside shop-vacuu bug (BMSB) has recently been introduced from Asia into the northeastern U.S. It was first detected in 1998 in Allentown. Pennsylvania (see NAPIS map; this map underrepresents the situation in Virginia). It was later found in New Jersey, Maryland and Delaware, and in October 2004 that if many of them are squashed or pulled into a vacuum cleaner, their od it was found in Montgomery County, Virginia, and in Tennessee in 2008. A collection of images has been posted on the web. In its native region (China and other parts of Asia) it is a pest of fruits, vegetables and soybeans. It may also invade houses in large numbers in the fall as it seeks overwintering sites. There is a possibility of it having become established in Oregon. A localized infestation was found in California in 2005, in a storage facility in materials stored by a resident recently moved from Pennsylvania. In 2007, it was found for the first time in Europe

A Teachable Moment





The good, and bad, stink bug varieties in Oregon. The bad variety, known as the Brown Marmorated Stink Bug or BMSB, was seen for the first time on Washington soil two weeks ago .