

Brown Marmorated Stink Bug Working Group Priorities

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 exploration)
- 14 **Extension** Development of a public awareness campaign--posters, public service announcements, educational materials, etc
- 15 **Regulatory** Product testing and labeling for new products

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
- 14 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

Extension Priorities

- 1 Development of education programs for growers and general public (including movement, threat)
- 2 Education of professionals to identify BMSB and its damage
- 3 Creation of a unified web-based location as a repository for BMSB information
- 4 Development of revised and unified management plans
- 5 Development of treatment recommendations and guidelines for both urban areas and agricultural settings
- 6 Raise awareness of importance of BMSB with APHIS, local congressmen and others
- 7 Development of educational programs for structural and landscape industries
- 8 Coordinate efforts among extension programs
- 9 Development of a public awareness campaign--posters, public service announcements, educational materials, etc.
- 10 Development of an eXtension community of practice
- 11 Focus on urban entomology
- 12 Creation of extension groups
- 13 Direct homeowners to contact local politicians with complaints

Regulatory Priorities

- 1 APHIS position statement about BMSB
- 2 Expansion of uses of existing registered products
- 3 Product testing and labeling for new products
- 4 Definition of the threat posed by BMSB
- 5 Prevention of movement (including in vehicles)
- 6 Interagency coordination and interdisciplinary funding
- 7 Anticipation of quarantines for nurseries