

# **Brown Marmorated Stink Bug Working Group Priorities**

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Submitted by:

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## Research Priorities

Rank	Research Priority	Mean Score	# Responders
1	Studies of basic BMSB behavior (host preferences, movement, responses to cues)	4.47	36
2	Identification of true pheromone	5.33	36
3	Studies of basic BMSB biology (physiology, generations)	7.44	36
4	Biocontrol agents--identification and study of parasitoids, fungal pathogens, and predators (native and foreign)	8.52	36
5	Host utilization, preference, and range	9.82	37
6	Defining damage diagnostics and economics of injury	10.44	36
7	Crop susceptibility and timing	10.55	36
8	Development of IPM-friendly management tactics	11.74	35
9	Standardize methods for insecticide trials and conduct screenings of existing materials	11.76	34
10	Insecticide toxicity screening	11.80	36
11	Standardized sampling methods	12.02	35
12	Impact of landscape and habitat on population	12.55	36
13	Investigation of host-plant volatiles as attractants	13.74	35
14	Identification of potential repellents	14.72	36
15	Evaluation of parasitoid host specificity	15.02	36
16	Examination of potential for trap-cropping	15.41	36
17	Evaluate effects of BMSB management plans on beneficial agents, including pollinators	17.09	34
18	Evaluate potential impacts of cultural control measures	18.14	35
19	Assess secondary pest outbreaks related to chemical control of BMSB	18.25	36
20	Mapping and assessment of distribution	18.83	36
21	Evaluate landscape-level/watershed-scale population distribution	19.27	36
22	Translation and synopsis of research to date from Asia	20.19	32
23	Study potential for damage of harvested/value-added crops by contamination with BMSB	20.26	35
24	Generate methods and baseline for evaluation of resistance development	20.52	36
25	Determining monitoring strategies for urban areas	21.25	35
26	Evaluate impact of orchard groundcover	22.46	35

	management		
27	Assessment of economic impact in urban environment	23.17	35
28	Examination of cross-attractancy of BMSB and green stink bugs	24.39	33
29	Evaluate potential impact of vertebrate predation	25.44	34
30	Assessment of displacement of native stink bugs	27.82	33

## Extension Priorities

Rank	Extension Priority	Mean Score	# Responders
1	Education programs to growers and the general public	4.17	35
2	Coordinate efforts of state and regional extension programs	5.40	35
3	Develop revised and unified management plans	6.28	35
4	Educating professionals to pest ID and diagnosis of injury	7.08	35
5	Evaluation of field application techniques for chemical control	7.11	35
6	Develop economic injury thresholds	7.68	35
7	Educational programming for structural and landscape industries	8.97	35
8	Evaluate efficacy of insecticides/killing agents for homeowners	9.91	35
9	Develop treatment recommendations and guidelines for urban environments	9.97	35
10	Initiate an extension community of practice (COP), potentially as a central website for information dissemination	10.25	31
11	Evaluate materials for home-garden and home-landscape protection	10.45	35
12	Education programs relevant to development of biological control projects	10.77	35
13	Extension outreach and education programming for urban environment/homeowners	11.00	35
14	Structure extension groups by commodity or region	11.12	34
15	Initiate public awareness campaigns - posters, public service announcements, educational materials, etc.	11.58	34
16	Raise awareness of importance of BMSB as pest - APHIS, local political channels, etc.	14.63	22
17	Direct homeowners to local politicians for complaints	15.96	33

## Regulatory Priorities

<b>Rank</b>	<b>Regulatory Priority</b>	<b>Mean Score</b>	<b># Responders</b>
1	Expand use of existing registered products	1.94	34
2	Coordinate inter-agency and interdisciplinary funding	2.39	33
3	Product testing and labeling of new active ingredients/products	2.44	34
4	Define the economic and ecological threat	3.11	19