Brown Marmorated Stink Bug in California 2015
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Winchester, Virginia
BMSB National Working Group Meeting
Overview, California 2015

• Survey for BMSB
  – Spread in state
  – Hosts plants

• Biological Control
  • Sentinel Egg Survey
  • Host specificity testing (Hoddle & Lara-Artiga)
Distribution of BMSB in California

- 2002 first report of BMSB in CA
- 2006 first reproducing population, LA County
- 2013, second county with BMSB pop.
- 2015, 9 counties
Sacramento, CA 2015, Olive
Feeding on Olives In Lab
BMSB feeding on raw pistachios harvested in Kern County under laboratory conditions
Feeding Through Bark
Sacramento, CA 2015

Stone Fruit

Citrus
Trees associated with BMSB in California

Surveys
• Sacramento
• Chico
• San Jose

Most common hosts
• Tree of heaven
• Chinese pistache
• Elm (*Ulmus davidiana*)
• Maple (*Acer buergerianum*)
• Catalpa sp.
• Crepe-myrtle
Biological Control of BMSB

• Resident Natural Enemies?
  Parasitoids
  Predators
Results from Sentinel Eggs

• Predation
  – 11% of eggs removed (263 masses deployed)
  – Carabid, *Laemostunus complanatus*
  – Earwig, *Euborellia annulipes*
  – *Astata* spp., predacious wasp

• Resident parasitoids
  – Less than 3% of masses attacked (n=546)
  – *Trissolcus* & *Telonomus*
Rat eating BMSB eggs on sentinel card
Sacramento, October 2015
Imaging by M. Stadtherr (CDFA)
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