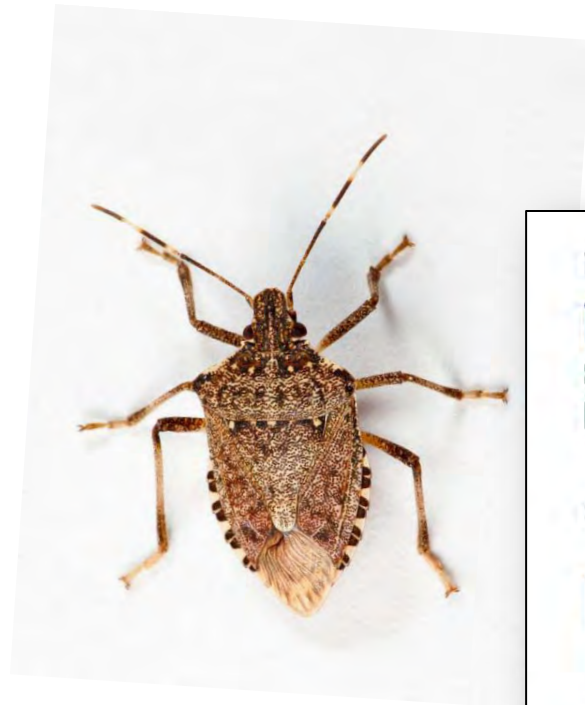


BMSB and Small Fruit

- Updates from 2012



Funding



United States
Department of
Agriculture

National Institute
of Food and
Agriculture

Specialty Crop Research Initiative
Grant #2011-01413-30937

Collaborating Institutions



Cornell University



Virginia Tech



Northeastern
IPM
Center



NC STATE UNIVERSITY



Small Fruit Team

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Vaughn Walton, Oregon State U.

Peter Jentsch, Cornell U.

Greg Loeb, Cornell U.

Objective 1.2 & 1.3: Impact on Specialty Crops (Small Fruit)



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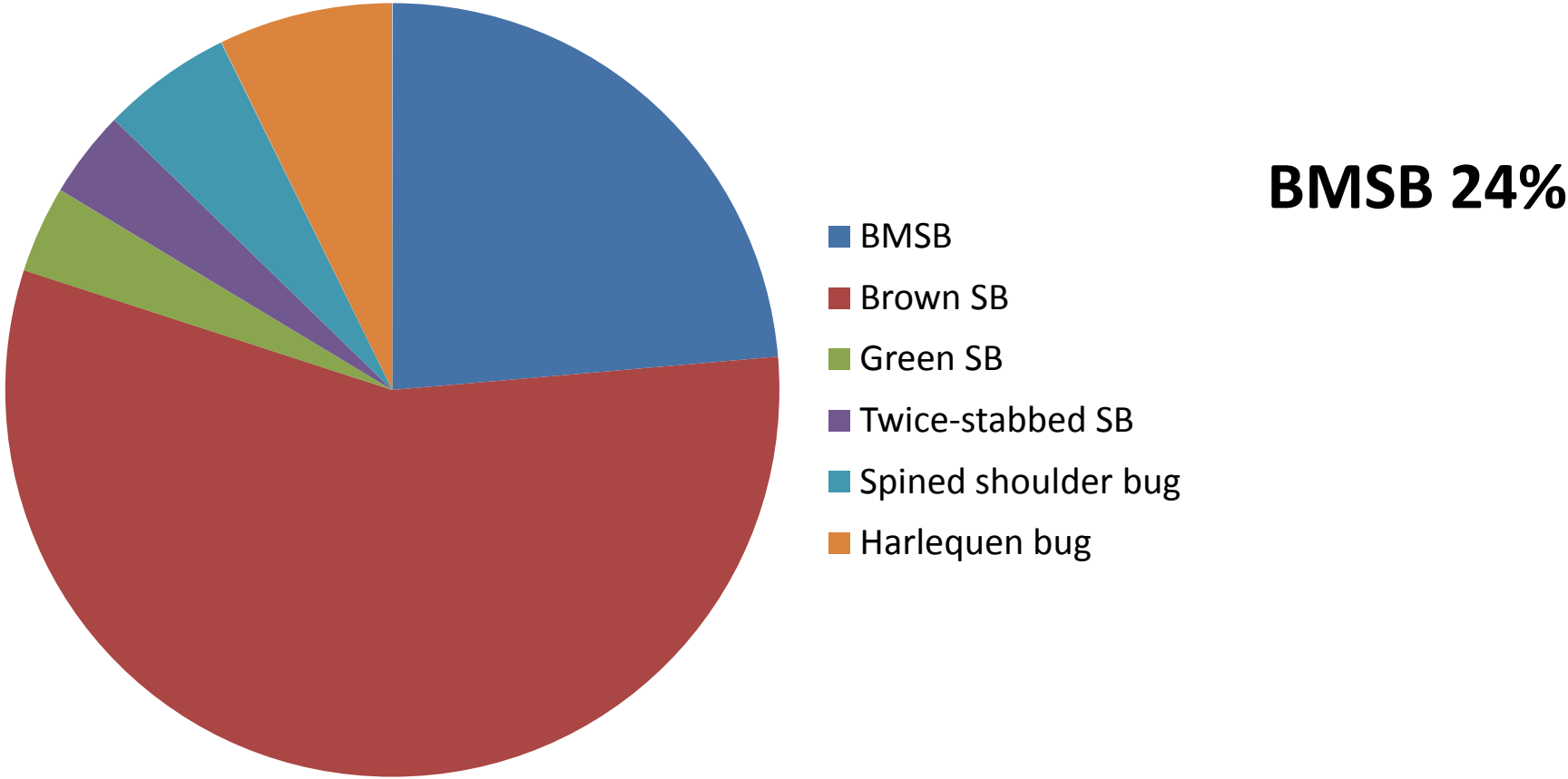
UNIVERSITY OF
MARYLAND



Virginia Tech

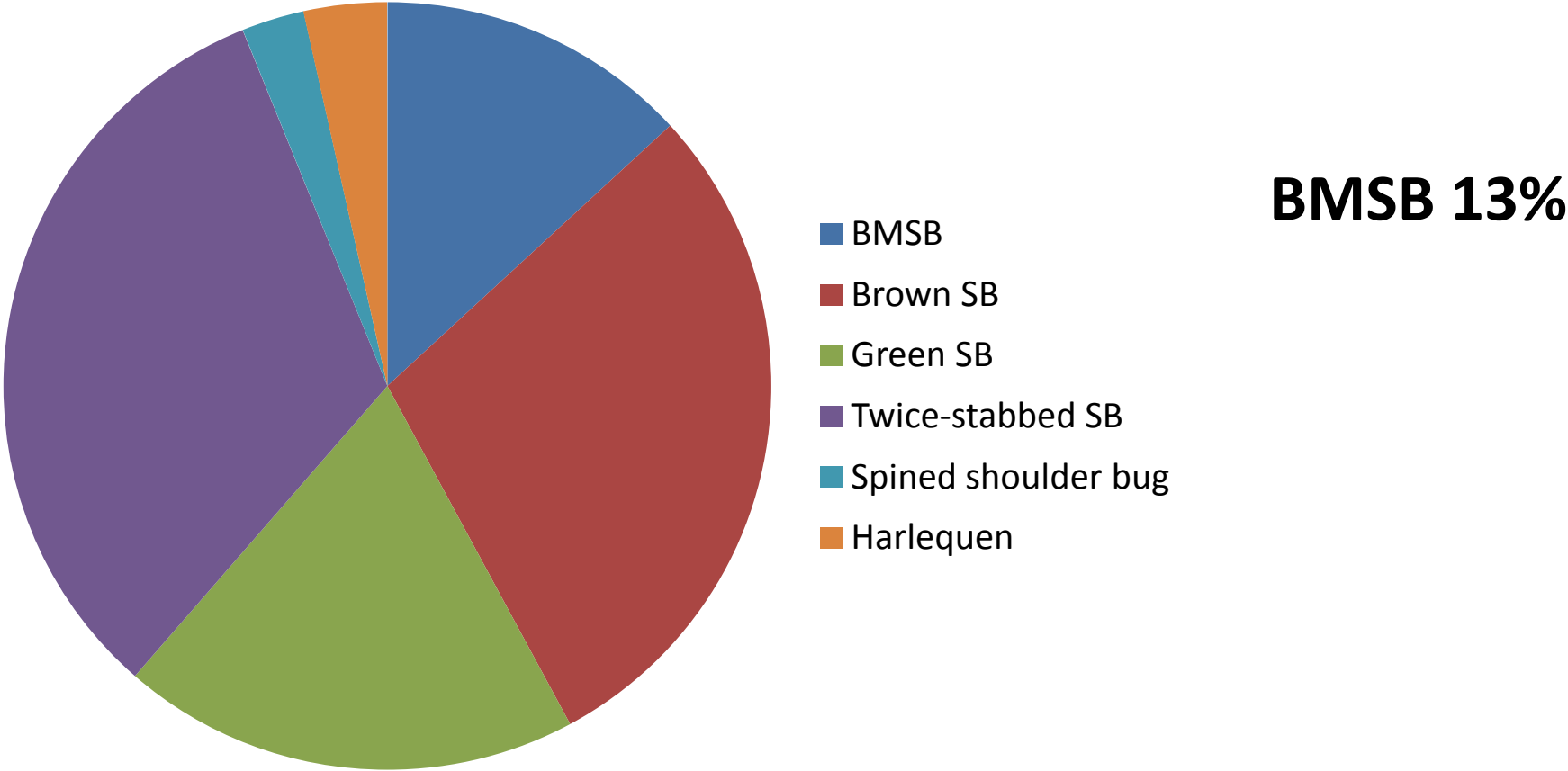


Stink Bug Community in Primocane Raspberries, Kentland Farm (2011)



Basnet & Pfeiffer

Stink Bug Community in Primocane Raspberries, Kentland Farm (2012)



Basnet & Pfeiffer

Blueberries

Conducted BMSB transect walks

- BMSB counts taken at 8 farms weekly
- 3 minute walk / transect
- May 30th – August 20th
 - Farms (# of transects at each farm)
 - ABC (23)
 - R&S (9)
 - Macrie (16)
 - Merlino (5)
 - Harvest Star (10)
 - Del Rossi (16)
 - Whalens (8)
 - Donio (4)

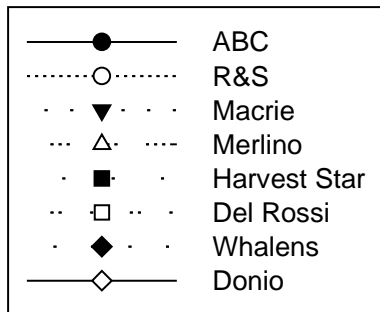
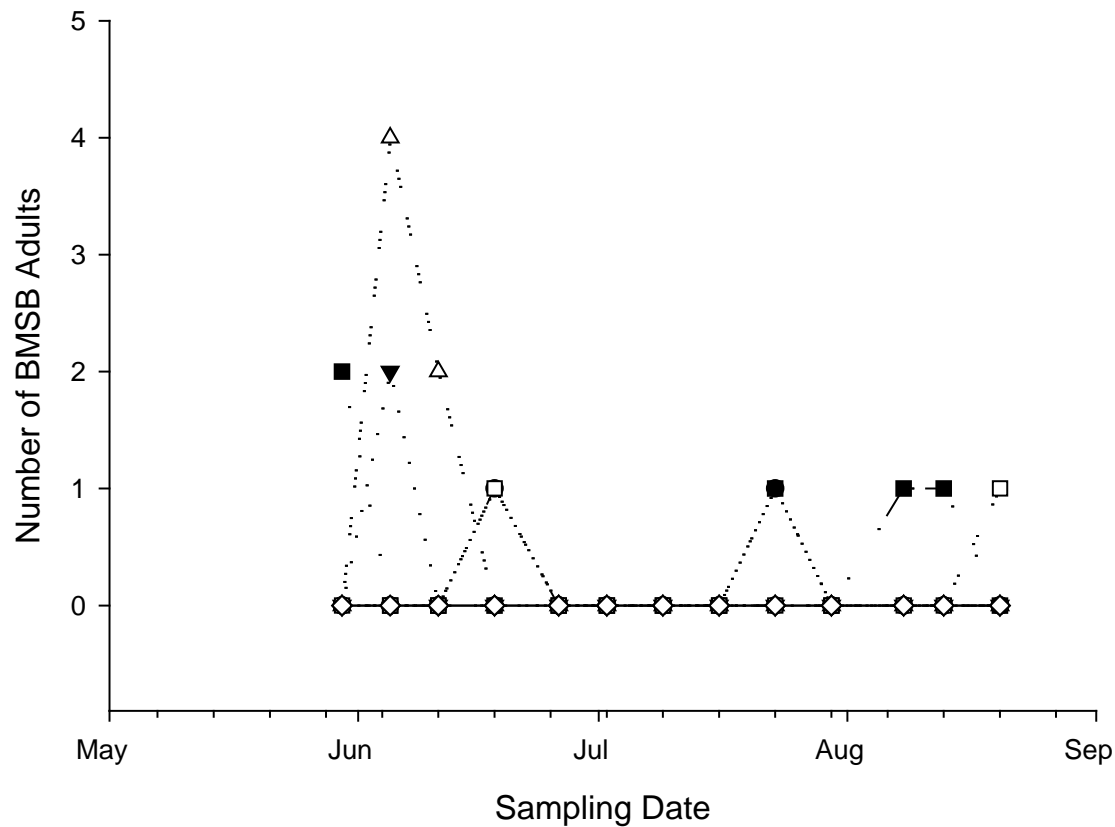
Whalen Blueberry Farm



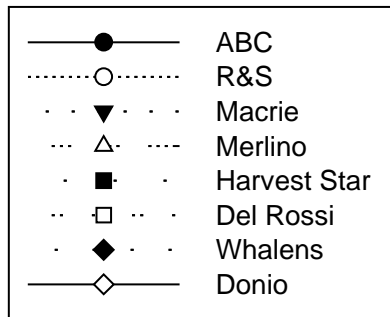
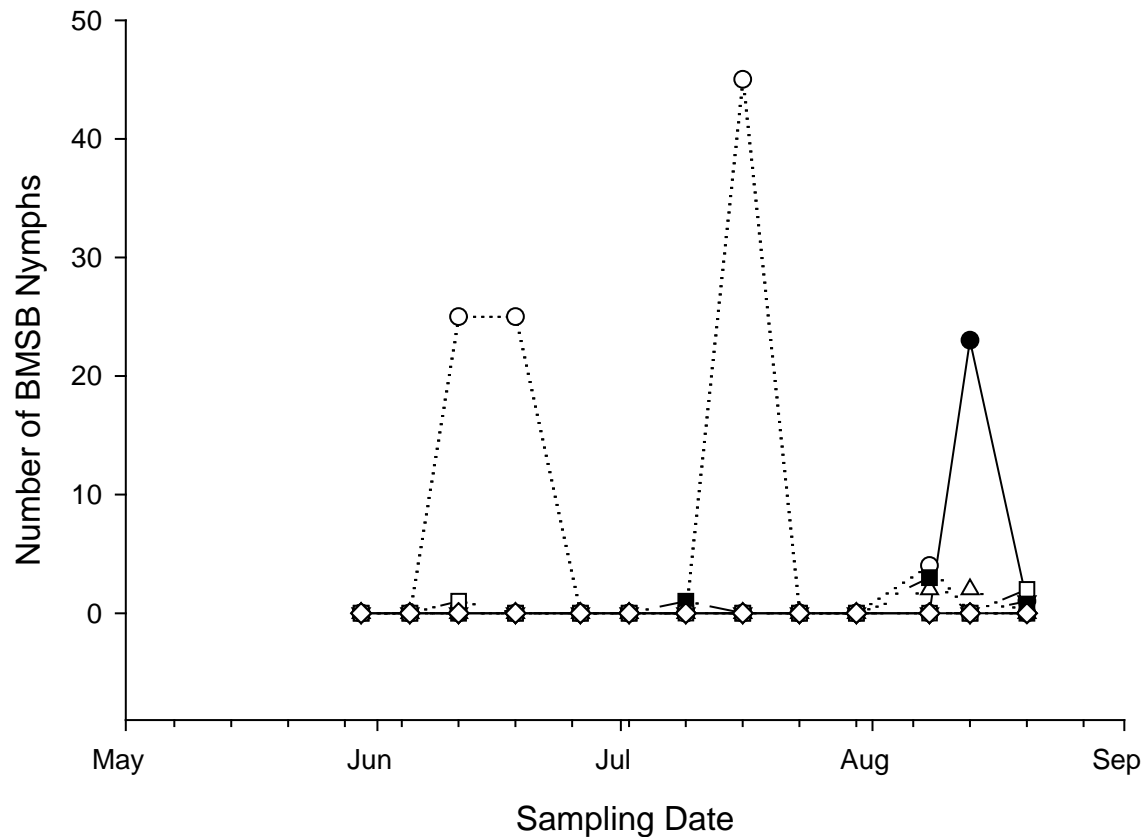
Harvest Star



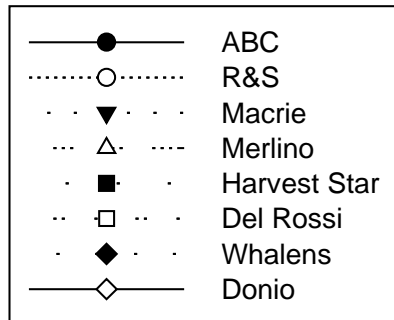
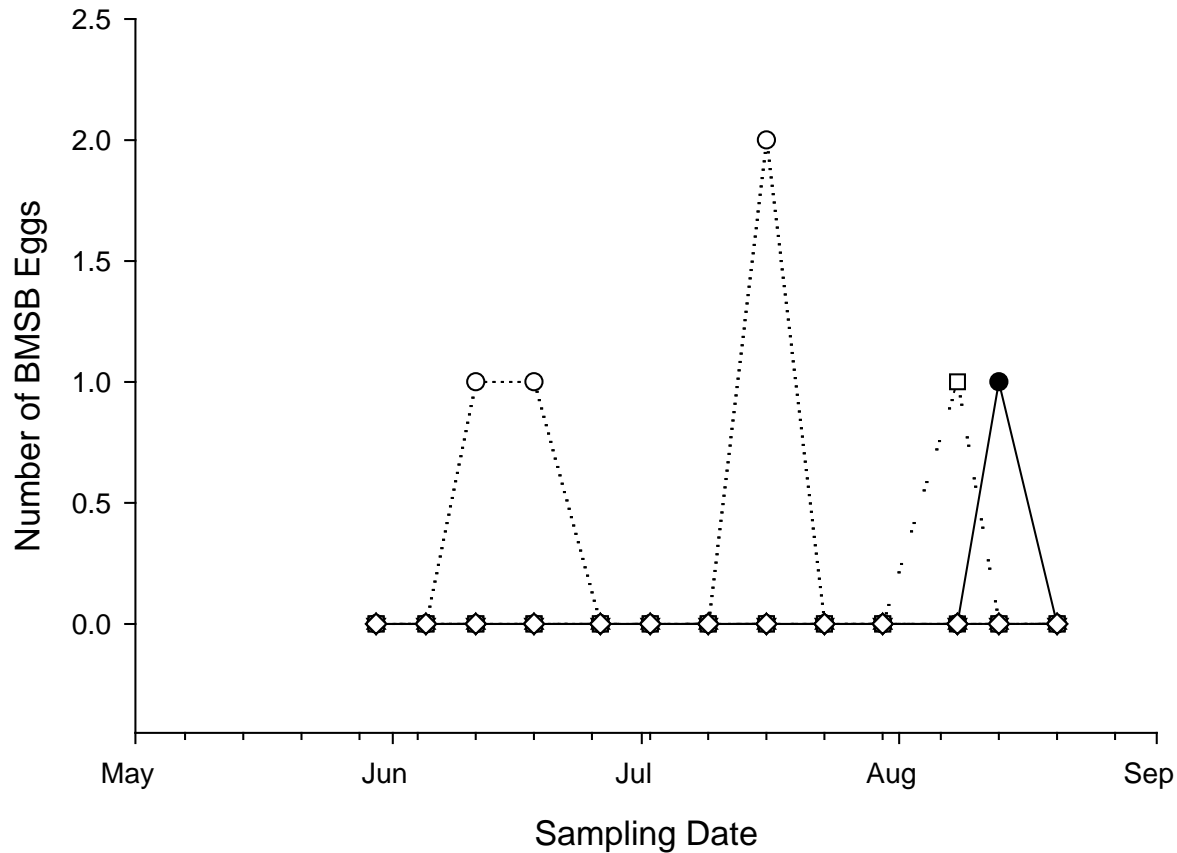
Results BMSB Adult Transect



Results BMSB Nymph Transect

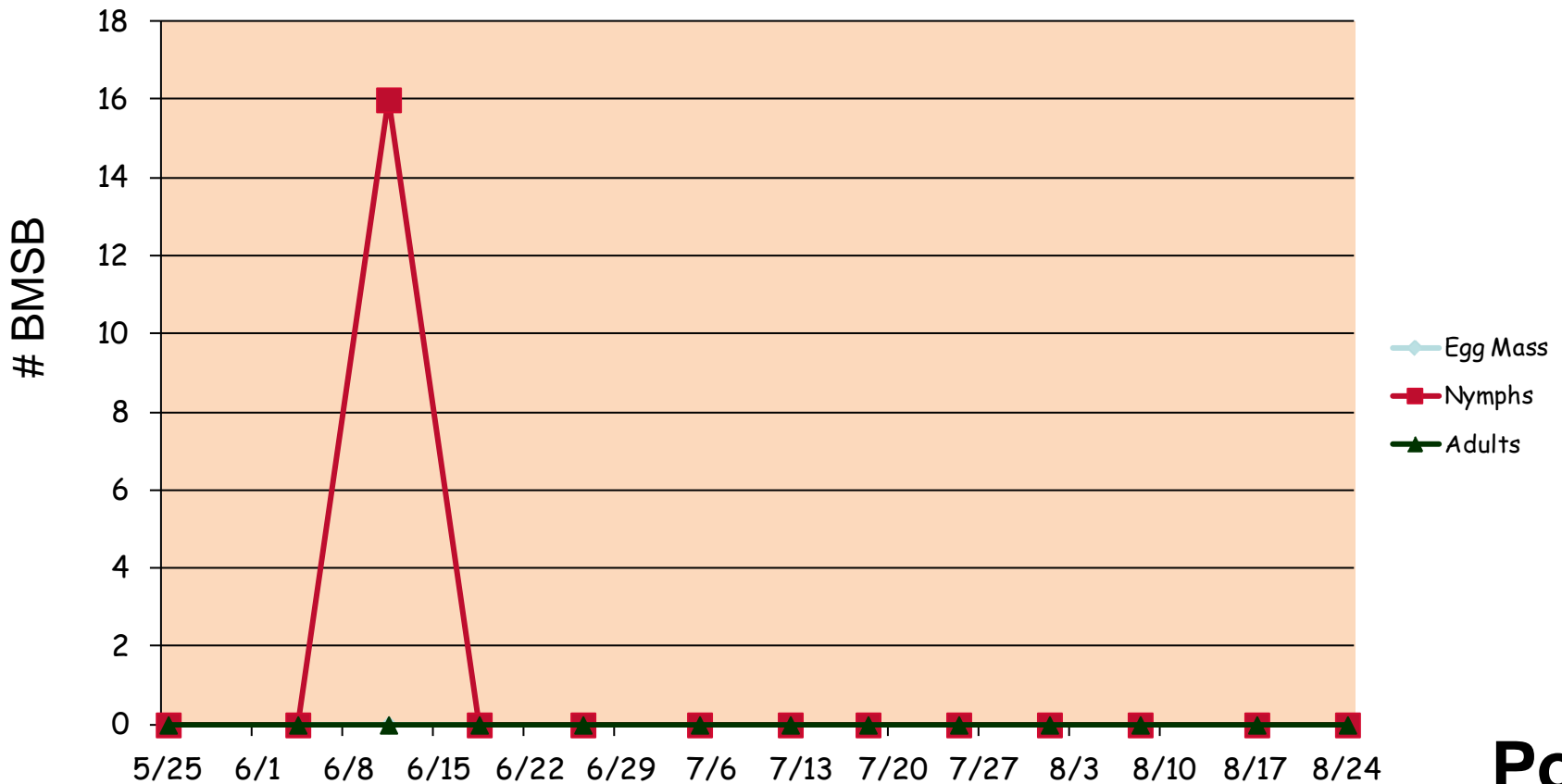


Results BMSB Egg Transect



BMSB in New Jersey

- BMSB counts taken at 39 sites near wooded edges
- 3 minute counts



Examine BMSB damage on blueberries

- Objectives
- 1.2.1. Establish the impact of BMSB presence and feeding on small fruit
- 1.3.1 Determine BMSB phenology and impact on specialty crops

Examine BMSB damage on blueberries

- BMSB adults or nymphs
 - 0, 1, 2 or 5
- Caged BMSB on blueberries
 - Each week BMSB treatment was moved to another bag on the same bush
 - 5 weeks total

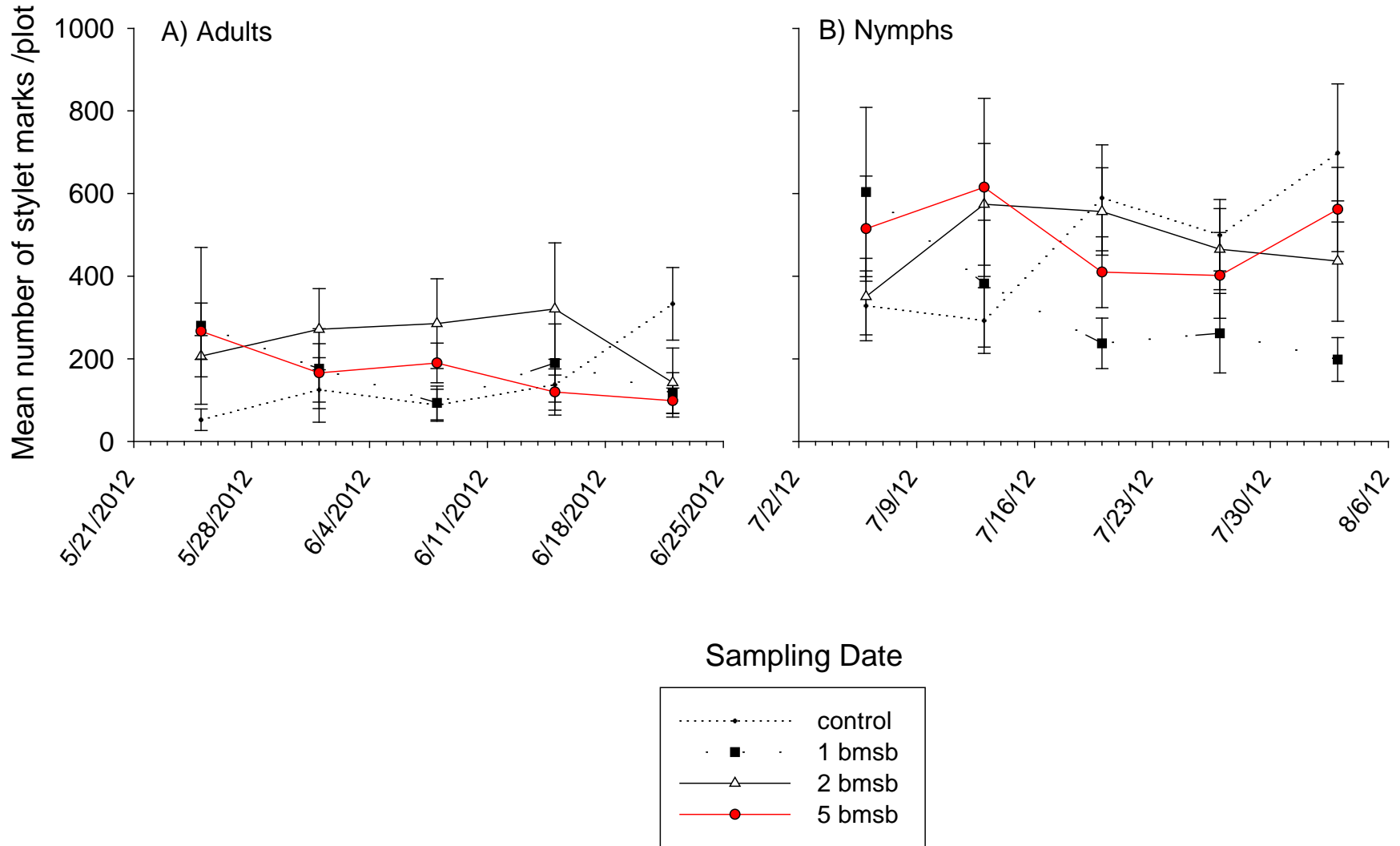


Methods Continued

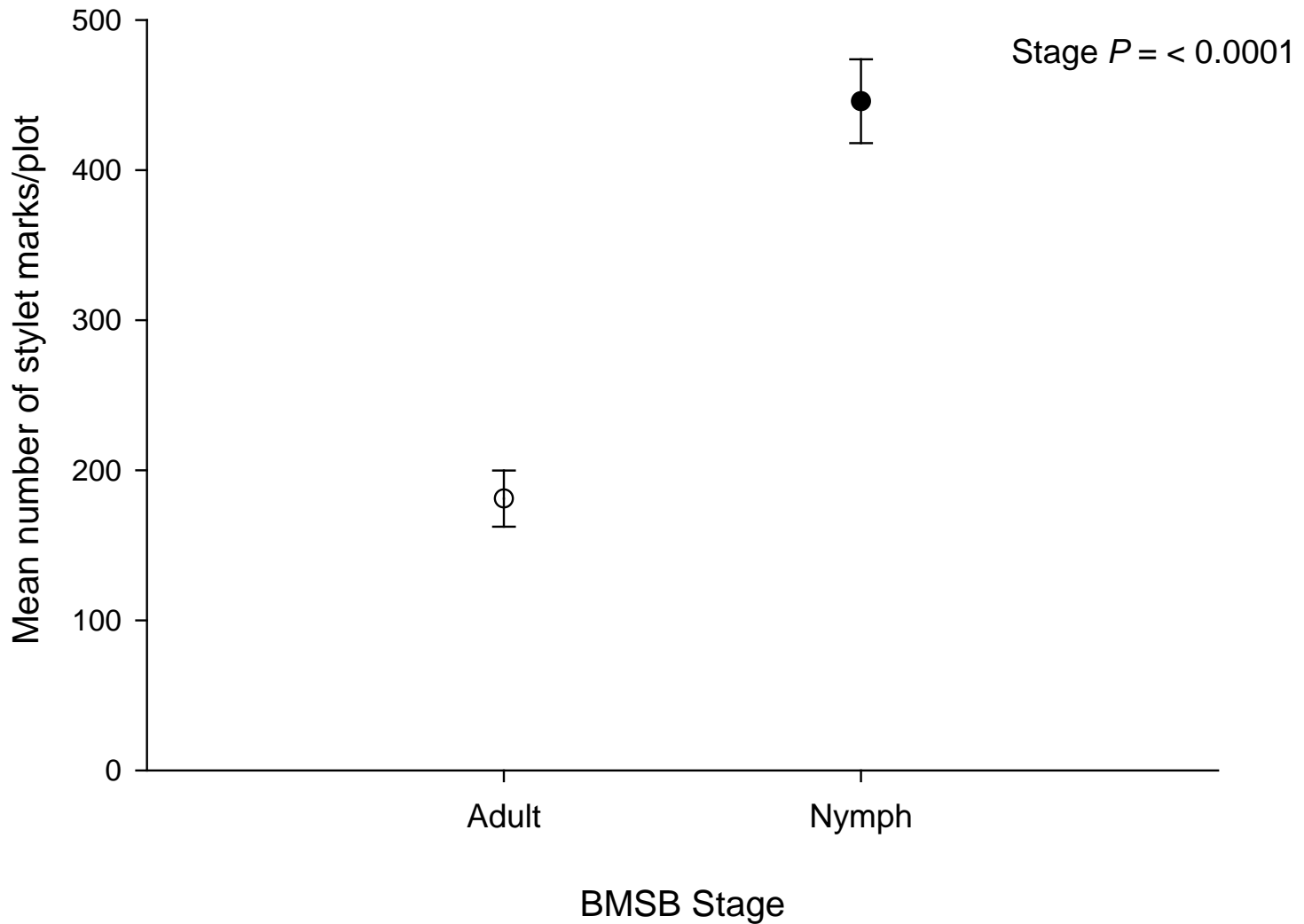
- Harvested berries
 - Recorded % discoloration
 - Recorded the number of berries in the bag (berries aborted)
 - Recorded number of stylet marks
 - Dissected berry and recorded % necrosis



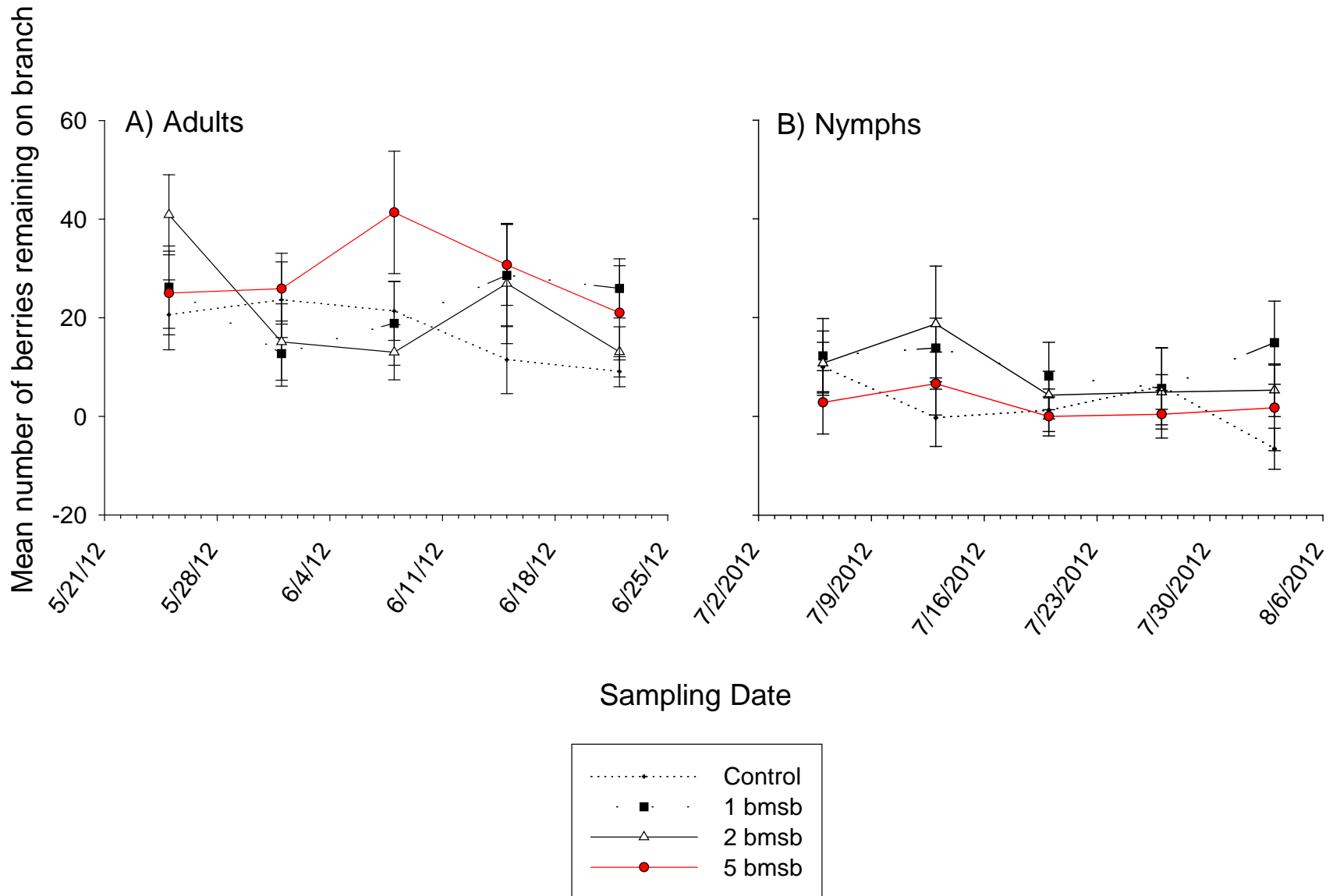
Results Stylet Marks



Stylet Marks Adult vs. Nymphs



Results Berries Remaining on Branch



Berries Remaining on Branch Adult vs. Nymph

