2.1 Impact on Orchard Crops



Funding



United States Department of Agriculture

National Institute of Food and Agriculture

Specialty Crop Research Initiative Grant #2011-01413-30937

PENNSTATE

Collaborating Institutions

















WirginiaTech







Exclusion Cage Study: 2011 - 2012

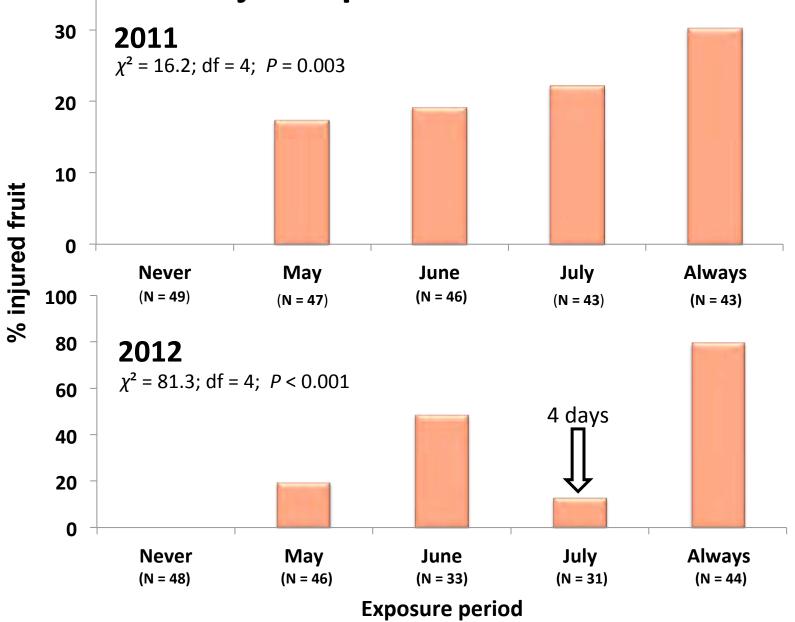
Injury to peaches & apples exposed to natural BMSB populations for discrete intervals during the season

- Unsprayed 'Golden Delicious' and 'Redhaven'
- Routine sprays for CM and/or OFM (e.g. Altacor)
- 50 fruit/treatment

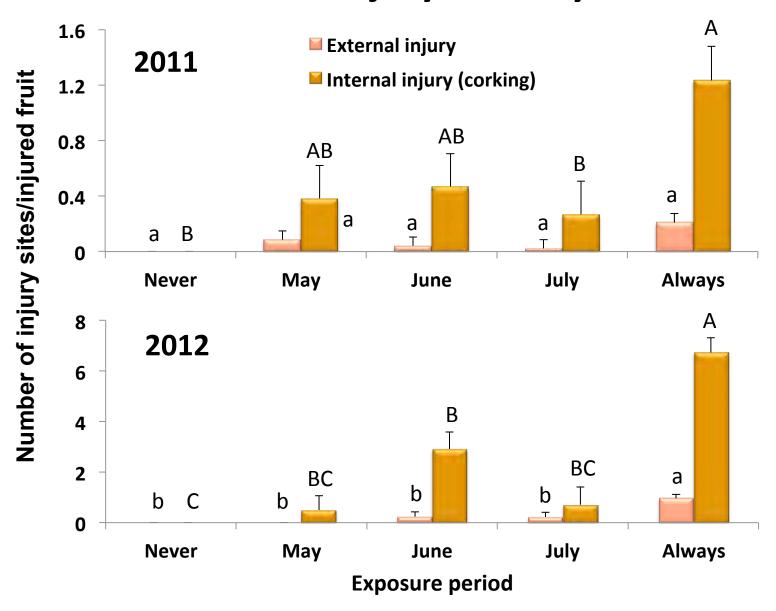
Treatment	May	June	July
Always exposed			
Exposed in May	SECOND		
Exposed in June			
Exposed in July			
Never exposed			



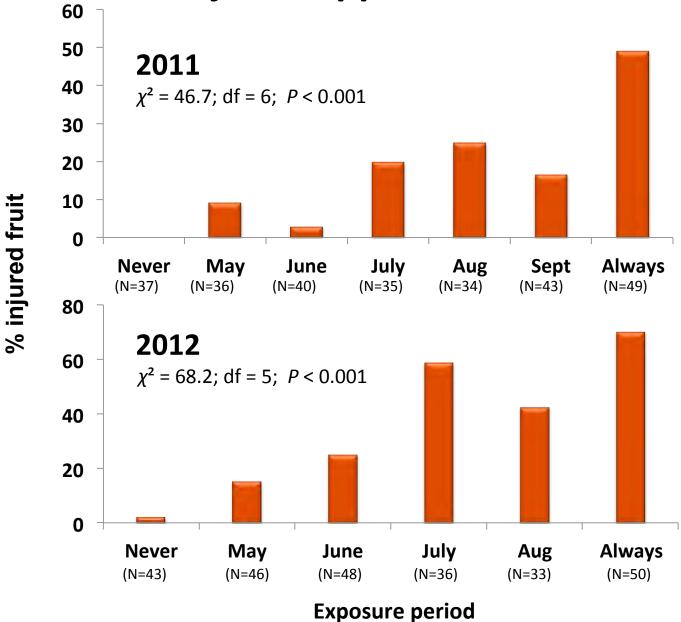
% injured peaches at harvest



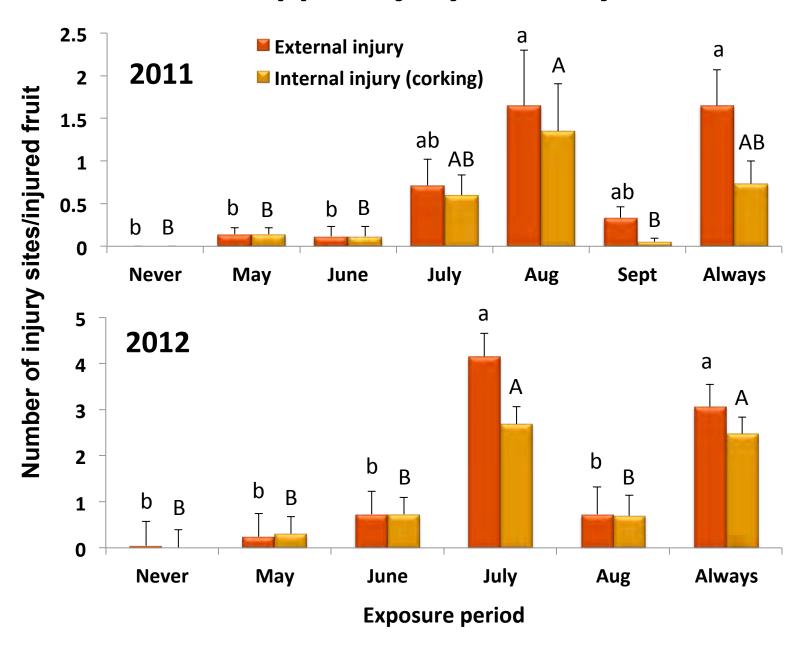
Peach injury severity



% injured apples at harvest

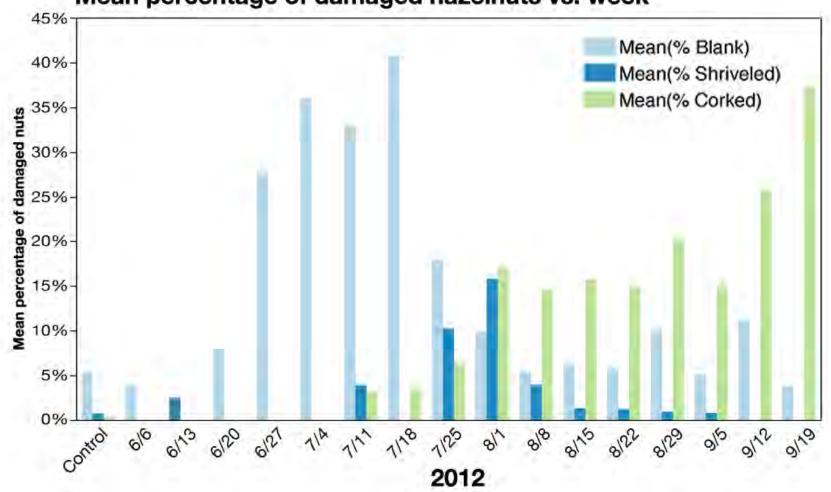


Apple injury severity



2012 Hazelnut Damage Trials in Oregon

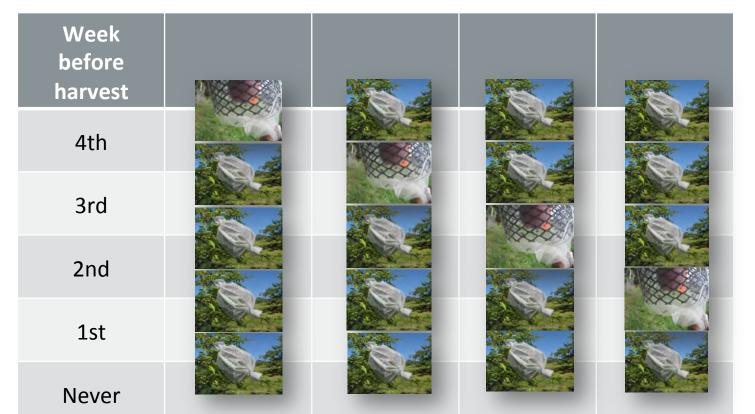


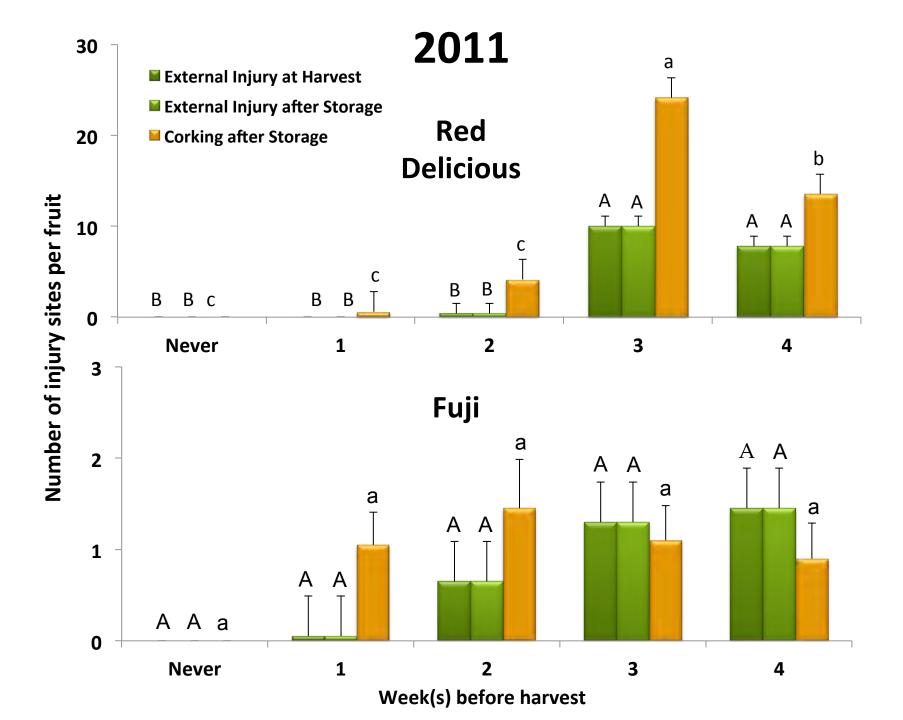


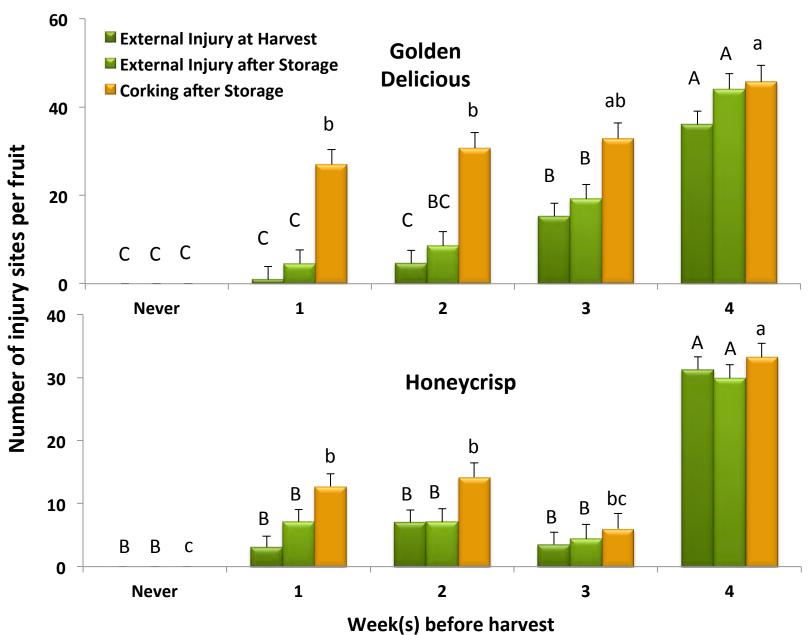
Inclusion Cage Study: 2011 - 2012

Injury to apples exposed to 5 adult BMSB for a 1-week interval during each of the 4 weeks preceding harvest

- Unsprayed 'Red Delicious', 'Fuji', 'Golden Delicious' & 'Honeycrisp'
- 20 fruit/treatment







Distribution of brown marmorated stink bug injury within mid-Atlantic apple orchards



Chris Bergh, Shimat V. Joseph, Tracy Leskey, Dean Polk, Greg Krawczyk, Bryan Butler, and Starker Wright



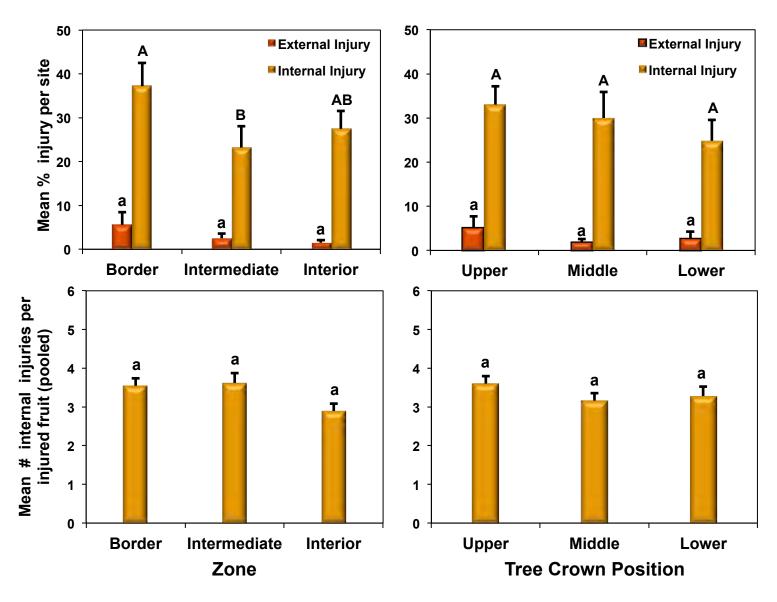




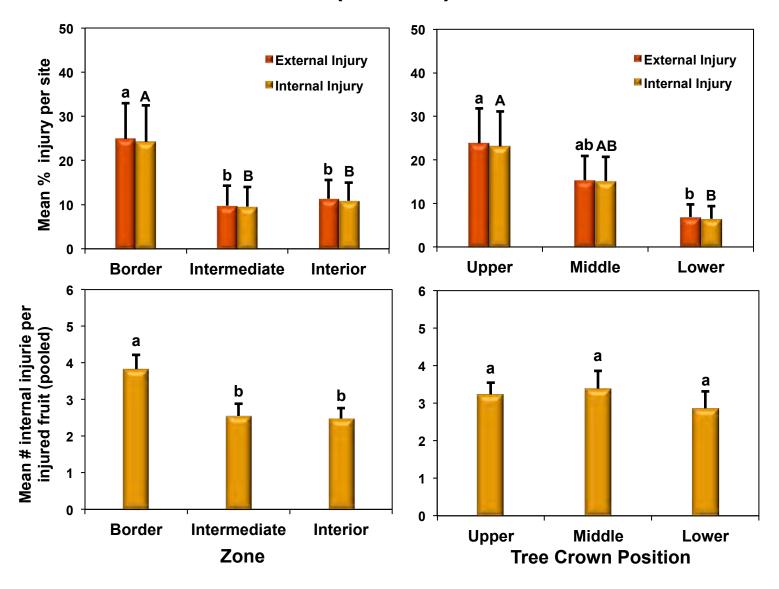




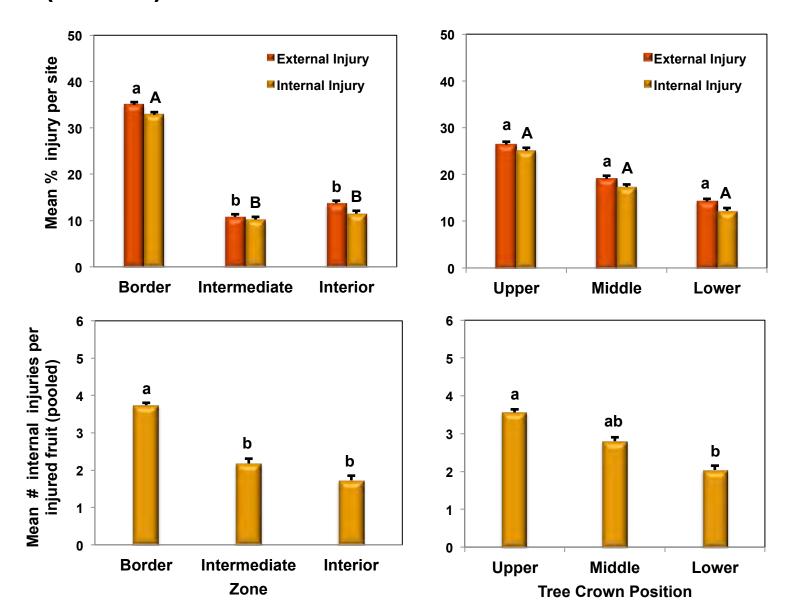
New Jersey: 2011 (5 sites)



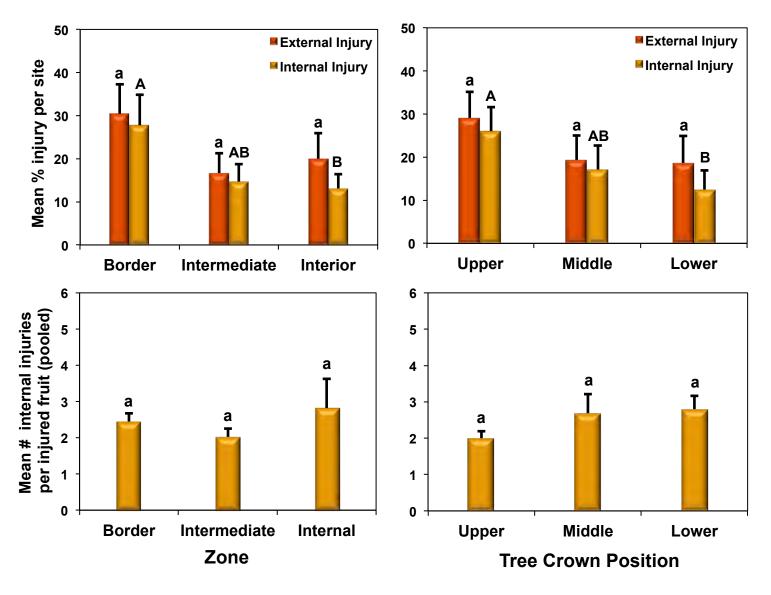
Maryland and West Virginia: 2011 (3 sites)



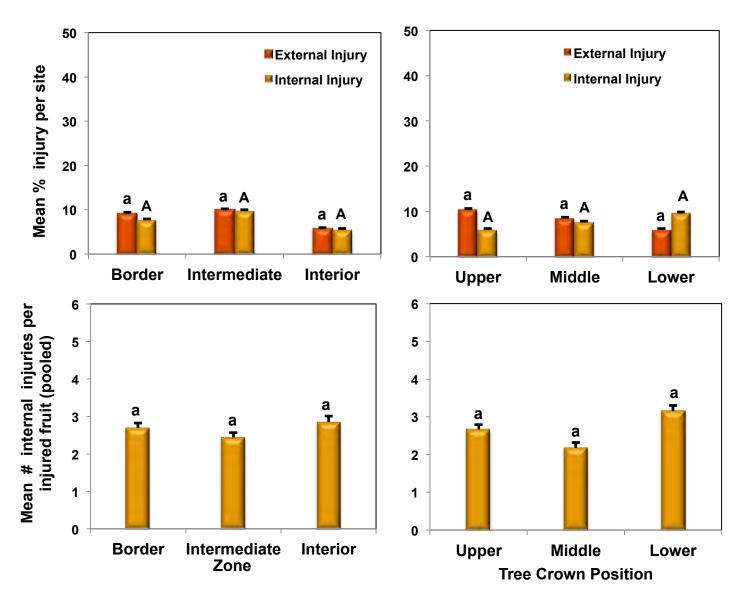
Maryland and West Virginia: 2012 (3 sites)



Virginia: 2011 (3 sites)



Virginia: 2012 (3 sites)



Pennsylvania: 2011 (7 sites)

