# Late season brown marmorated stink bug (BMSB) in Honeycrisp apple

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# Confirmation of BMSB Damage Through Caging

ARDP Funded-BMSB Project-- What does late-season damage look like on honeycrisp apples?

Traps are not equal to damage = more essential to define damage

# Brown Marmorated Stink Bug Caging Experiment

# Study design

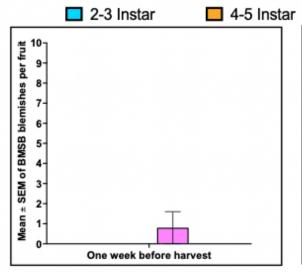
- =Caging treatments were applied every week for four weeks before harvest
- =Branches with two apples each were bagged with the following treatments
  - 4 Adult BMSB
  - 4 4-5 instar BMSB
  - 4 2-3 instar BMSB
  - Untreated Control
- =Insects were removed after 4 days of exposure and replaced daily during this time
- =Damage was assessed at harvest

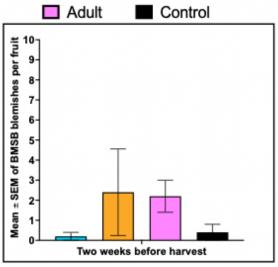


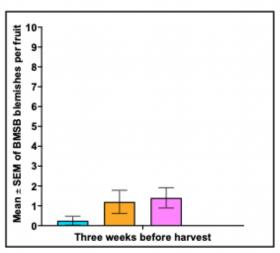
Adults may be better at late season damage than nymphal stages

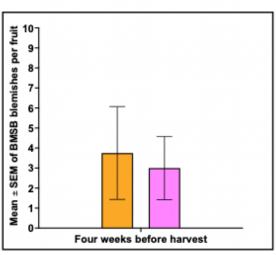
#### Damage results at harvest

Brown marmorated stink bug (BMSB) damage at harvest to apples caged with three BMSB for four days at different weekly intervals before harvest (BH)

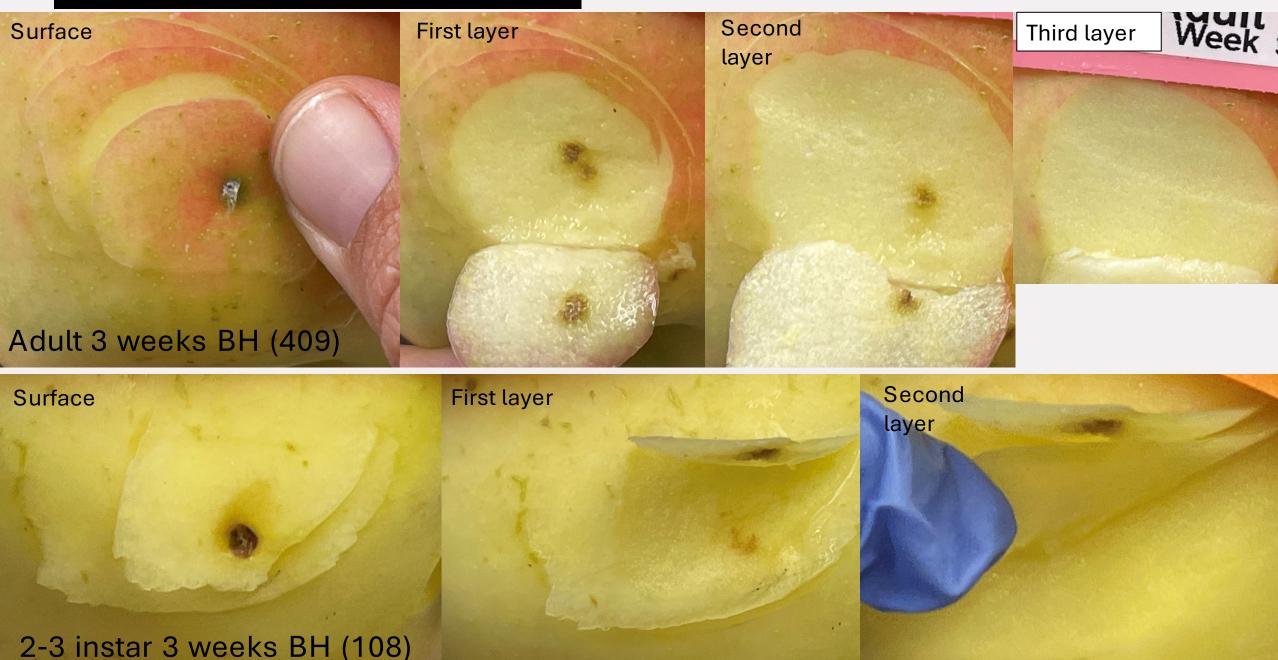








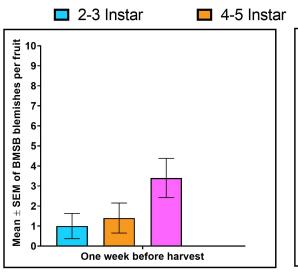
## At harvest damage - BMSB

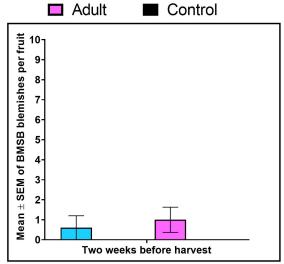


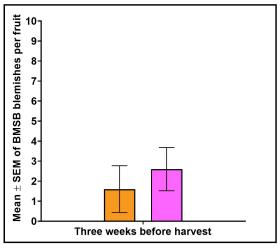
Storage may cause damage to be more apparent/to develop

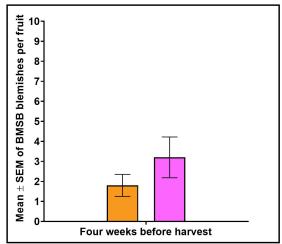
#### Damage results post-harvest

Brown marmorated stink bug (BMSB) damage post-storage to apples caged with three BMSB for four days at different weekly intervals before harvest (BH)

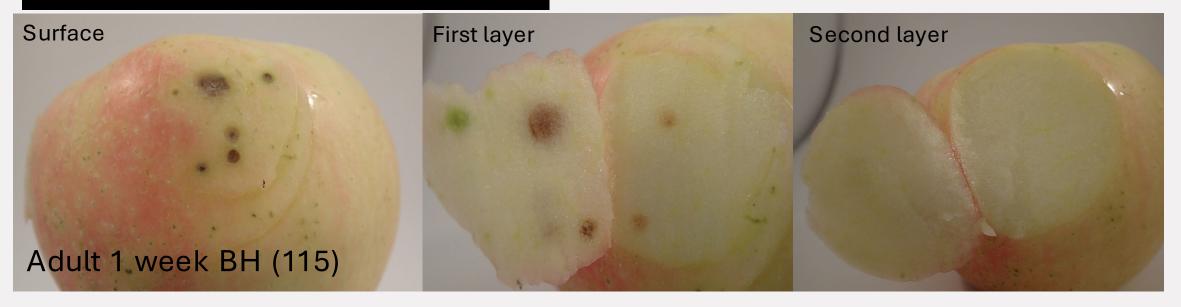








### Post-storage damage





#### **Future Directions**



- 1. Caging experiment needs to be repeated and peeling of the whole apple at both assessments
- 2. Second year of funding just submitted!
- 3. Photos for extension documents were obtained to help growers/packers identify damage to inform late season BMSB treatments