

Pacific Pests, Pathogens and Weeds - Online edition

Brown marmorated stink bug (405)

Summary

- Widespread. Asia, North America, Europe, Oceania. In Guam.
- An invasive and damaging pest of fruit trees, row crops, vegetables, woody ornamentals, wood lots. More than 100 hosts. Sucks sap and inject toxins. Feed on fruits causing spots, sunken areas, distortions, death.
- A stink bug (up to 17 mm); smell when disturbed! Eggs cream to yellow orange in clusters; nymphs dark heads, orange abdomens and black stripes; adults mottled brown with black and white markings at edges. In temperate countries, adults aggregate in autumn to find cracks and crevices to overwinter (homes, luggage, machinery, cars, cargo). Spreads on the wing over short distances; spread long distances as hitchhikers on ships, and via horticultural trade.
- Natural enemies: *Trissolcus* species important in Asia.
- Biosecurity: quarantine measures; high vigilance, many interceptions reported.
- Cultural control: no effective recommendations.
- Chemical control: neonicotinoids and pyrethroids, but (i) resistance to pyrethroids may be developing, and (ii) their use has resulted in outbreaks of other pests due to loss of natural enemies.

Common Name

Brown marmorated stink bug, also known in Asia as the yellow-brown stink bug.

Scientific Name

Halyomorpha halys



Photo 1. Eggs of the marmorated stink bug, *Halyomorpha halys*, with first stage nymphs.



Photo 2. Late stage nymph of the marmorated stink bug, *Halyomorpha halys*, showing the banding on legs and antennae.

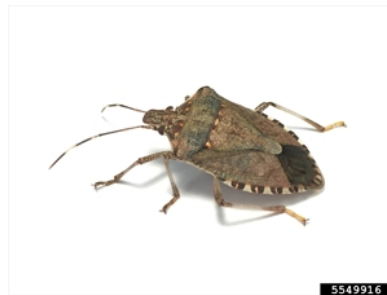


Photo 4. Adult marmorated stink bug, *Halyomorpha halys*. Note the black and white markings to the outer edge of the body.



Photo 3. Late stage nymph of the marmorated stink bug, *Halyomorpha halys*, showing the banding on legs and antennae.

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Information from CABI (2019) *Halyomorpha halys* (brown marmorated stink bug). Crop Protection Compendium. (<https://www.cabi.org/cpc/datasheet/27377>); and from Plant Health Australia. (<https://www.planthealthaustralia.com.au/wp-content/uploads/2016/04/Brown-Marmorated-Stink-Bug-FS.pdf>); and from Penca C, Hodges A (2019) *Halyomorpha halys* (Stal). Featured Creatures, Entomology & Nematology. UF/IFAS, University of Florida. (http://entnemdept.ufl.edu/creatures/veg/bean/brown_marmorated_stink_bug.htm). Photos 1&2 Gary Bernon, USDA APHIS, Bugwood.org. Photo 3 Kristie Graham, USDA ARS, Bugwood.org. Photo 4 Susan Ellis, Bugwood.org.

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