

Tree Fruit Research &amp; Extension Center

# Apple IPM Transition Project



Friday 23 September, 2016Friday 23 September, 2016

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## Visual Guide to Adult Stink Bugs

*How to differentiate Brown Marmorated Stink Bug from other stink bugs found in Pacific Northwest orchards and surrounding areas*

**Disclaimer:** The species descriptions used here are for a quick, rough determination and not intended as a definitive way to identify critical specimen. A much more thorough comparison of multiple features not included here would be required to confirm identification. The species shown here are limited to only the most common ones found in our area. Also, be aware that there are variations in size and color of each stink bug species depending on locality, time of year, age, and habitat in which the specimen is found. The specimen images shown here are sized proportionally for comparison. If you have a critical specimen requiring an authoritative identification you should contact the [WSU Entomology Dept](#), your local County Extension office or the WSDA Entomologist or the equivalent in your area.

[Brown Marmorated Stink Bug](#)
[Common Brown Stink Bugs](#)
[Common Green Stink Bugs](#)
[References](#)

### Brown Marmorated Stink Bug (BMSB)

Hemiptera: Pentatomidea, *Halymorpha halys* Stål

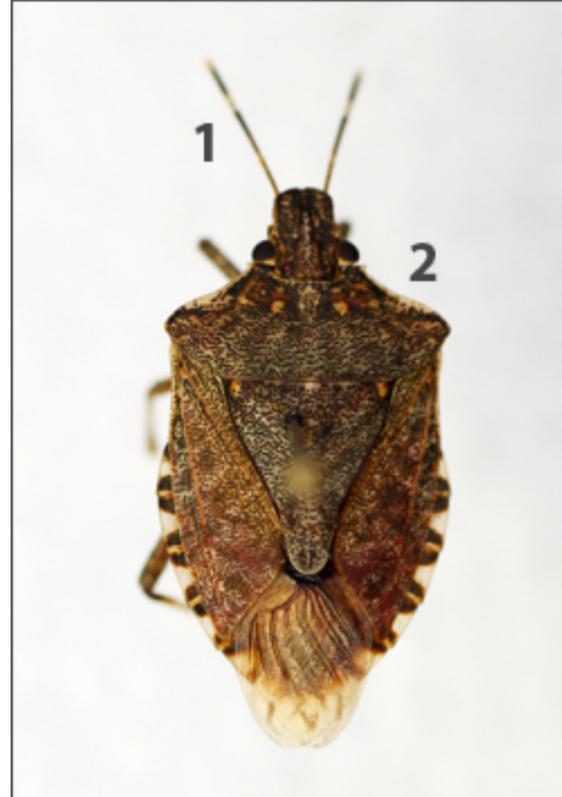
AKA: yellow-brown stink bug; East Asian stink bug

The Brown Marmorated Stink Bug (BMSB) is an invasive species native to eastern Asia where it is considered a major economic pest of soybeans and woody plants. Its presence in the US was first discovered in 2001 in Pennsylvania, more than likely originating from cargo shipments during the mid 1990's from the orient. BMSB has since spread down the eastern coast to Virginia and west with detections as far as California and Oregon. As in Asia, this pest is known to attack our high valued tree fruit crops as well as vegetables and small fruit. In urban areas this pest becomes a nuisance during the fall as it invades homes looking for warm over wintering sites. Disturbing this insect causes them to emit an odor from which their name arises.

For more information see the reference links at the [bottom](#) of this page.

**Distribution:**

Native to China, Japan, Korea and Taiwan. In the US, populations have established in Pennsylvania, New Jersey, Delaware, Maryland, West Virginia, Virginia, South Carolina and Oregon (Portland metro area). Limited populations have also been detected in Mississippi, Ohio and California.



**Key distinguishing features:**

- 1 – Last two antennal segments have white bands.
- 2 – Shoulders (edges of thorax) are smooth.

*General appearance:* yellowish–brown color with mottling and cream colored spots on thorax and scutellum (shield); margins of abdomen have an alternating light–dark banded pattern.

For a more detailed species description including the immature stages visit the Forest Health Fact Sheet [here](#) or from link at the [bottom](#) of this page.

*Specimen credit:* D.B Short, Jefferson Co., West Virginia, USA; Image by: W. Jones, WSU–TFREC, Wenatchee, WA, USA.

[return to top](#)

## Common Brown Colored Stink Bugs Easily Confused for BMSB

*Specimen credits:* Research Collection, Washington Sate University, Tree Fruit Research and Extension Center, Wenatchee, WA, USA. Samples collected from North Central, Central or Columbia Basin area tree fruit orchards: Image by: W. Jones, WSU–TFREC, Wenatchee, WA, USA.



### Rough Stink Bug

*Brochymena quadripustulata* Stål

**Key distinguishing features (from BMSB):**

The best way to distinguish this stink bug from BMSB is by looking at the last two antennal segments which are not



### Consperse Stink Bug

*Euschistus conspersus* Uhler

**Key distinguishing features (from BMSB):**

This is a very common stink bug. Compared to BMSB it is smaller; the body is less mottled and lacks the



### Conchuela Stink Bug

*Chlorochroa ligata* Say

**Key distinguishing features (from BMSB):**

The coloration of this stink bug can be highly variable from dark brown to light olive green. The most notable features

banded (1); and from the appearance of the 'shoulders' (edges of thorax) which have teeth-like projections (2).

cream colored spots; the wing membranes darker; and the antennae are tan to reddish with the end segments dark or black.

are the black antennae, light colored body margin and a light spot at the end of the scutellum (shield).

[return to top](#)

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## Common Green Colored Stink Bugs in Washington

**Specimen credits:** Research Collection, Washington State University, Tree Fruit Research and Extension Center, Wenatchee, WA, USA. Samples collected from North Central, Central or Columbia Basin area tree fruit orchards; Image by: W. Jones, WSU-TFREC, Wenatchee, WA, USA.



Green Stink Bug

*Agrosternum hilare* Say

Syn.: *Chinavia hilaris*

**Key distinguishing features:**

One of the larger stink bug species in the area. The color is usually bright green, but may become darker late in the season. The abdomen usually has an orange border. The last two antennal segments are darker than the first two, sometimes black.



(with red band)

Red Shoulder Stink Bug

*Thyanta pallidovirens* Stål

**Key distinguishing features:**

Coloration of this species can be highly variable. Body color can be bright green to a dark olive brown. A red band horizontally across the thorax may be present, but not always as shown here. However, it normally has a red margin on outer edge of the thorax and last antennal segments usually darker and redder than the first two. This is generally one of the smaller stink bugs.



(without red band)

[return to top](#)

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## Reference Links

Pest Watch: Brown Marmorated Stink Bug

<http://cru.cahe.wsu.edu/CEPublications/FS079E/FS079E.pdf> [NEW](#)

Pest Alert: Brown Marmorated Stink Bug. WSU Extension and WSDA

temporary link: [downloads/bmsblIDsheet.pdf](http://downloads/bmsblIDsheet.pdf)

Forest Health Fact Sheet- Brown Marmorated Stink Bug

<http://www.dcnr.state.pa.us/forestry/leaflets/stinkbug.htm>

E. Asian stink bug infesting homes in Allentown Pennsylvania, PA. Cornell Chronicle Nov. 1, 2001

<http://www.news.cornell.edu/chronicle/01/11.1.01/stinkbugs.html>

Rutgers Cooperative Extension Monitoring for the Brown Marmorated Stink Bug

<http://njaes.rutgers.edu/stinkbug/default.asp>

Hamilton, G.C. and P.W. Shearer. 2003. Brown Marmorated Stink Bug- A New Exotic Insect in New Jersey. Rutgers

Cooperative Extension. <http://njaes.rutgers.edu/pubs/publication.asp?pid=fs002>

PennState Entomological Notes: Brown Marmorated Stink Bug

<http://ento.psu.edu/extension/factsheets/brown-marmorated-stink-bug>

Jacobs, S.B. and K. Bernhard. 2002. Yellow-Brown Stink Bug. Penn State Entomological Notes  
<http://www.ento.psu.edu/extension/factsheets/brownMarmoratedstinkbug.htm>

Oregon Department of Agriculture Pest Alert: Brown Marmorated Stink Bug  
[http://www.oregon.gov/ODA/PLANT/docs/pdf/ippm\\_bmsb\\_alert2010.pdf](http://www.oregon.gov/ODA/PLANT/docs/pdf/ippm_bmsb_alert2010.pdf)

Northeast IPM Center Pest Alert: Brown Marmorated Stink Bug  
[http://www.csrees.usda.gov/nea/pest/pdfs/stink\\_bug\\_pest\\_alert.pdf](http://www.csrees.usda.gov/nea/pest/pdfs/stink_bug_pest_alert.pdf)

Maryland Cooperative Extension: Pest Threats  
[http://pestthreats.umd.edu/content/documents/BMSBBulletin1\\_10-2010.pdf](http://pestthreats.umd.edu/content/documents/BMSBBulletin1_10-2010.pdf)

Additional information on Brown Marmorated Stink Bug or stink bugs in general visit the [reference links](#) on our eNewsletter dedicated to BMSB.

**Some reference items may require a PDF reader plug-in:**



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