

Host range

There are many potential BMSB hosts among Michigan crops and ornamentals.

A few potential Michigan hosts include:

- *fruits*: apple, blackberry, blueberry, cherry, grape, pear, peach, raspberry
- *vegetables*: asparagus, green beans, peppers, sweet corn, tomato
- *ornamentals/trees*: basswood, butterfly bush, maple, redbud, walnut
- *field crops*: field and seed corn, soybean, probably dry beans

Damage potential

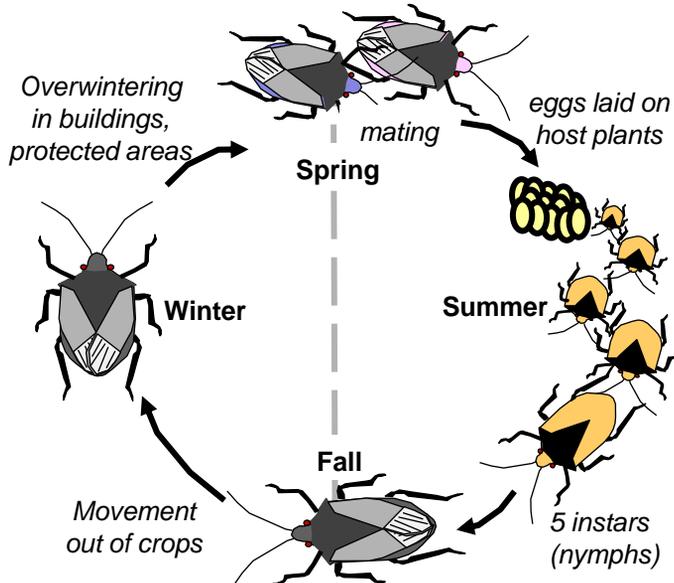
BMSB is a true bug, feeding on plant juices with a piercing-sucking mouthpart (right) and injecting saliva as it feeds. Unlike other sucking insects such as aphids, which feed gently without causing visible tissue damage, stink bugs puncture and scar plant tissue. Stink bugs may feed on leaves, stems, or blossoms, but often prefer tender new growth, developing seeds and fruits. This results in distortion of the growing tissue around the feeding scar, a symptom called 'cat-facing'.

Field crops: Within a few years of discovery, BMSB numbers could increase and become a problem in field crops. In *corn*, BMSB feeds through the husk and damages the developing ear, resulting in unfilled or shrunken kernels. In *soybean*, BMSB feeds through the developing pod, resulting in aborted or shrunken seeds. Damage to *dry beans* is expected to be similar. Field crops may also be a concern if fields build large numbers of BMSB that then move into fruit and vegetable crops later in the season.

Fruits/ vegetables: From a yield loss/ economic standpoint, the impact of BMSB will likely be greatest in fruit and vegetable crops. Feeding results in scarring, cat-facing, and spotting of developing fruits and vegetables, reducing marketability.

Home invasion: The most common impact may be when potentially large numbers of stink bugs enter buildings in the fall, similar to our current situation with Asian ladybeetle and boxelder bugs. If smashed or disturbed, BMSB smell bad, but otherwise they are harmless. A vacuum cleaner can take care of the problem, in addition to filling cracks and fixing screens to prevent entry.

Note that there are other stink bug species in Michigan, and several common home invaders, some of which resemble brown marmorated stink bug. Right: boxelder bug, conifer seed bug, and rough stink bug.



For more information online

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

Univ. of MD Home/ Garden Info: <http://www.hgic.umd.edu/content/brownstinkbug.cfm>

Ohioline fact sheet: http://ohioline.osu.edu/hyg-fact/pdf/FS_3824_08.pdf