What is the samurai wasp?

*Trissolcus japonicus*, known by the common name samurai wasp, is a parasitoid of BMSB (an invasive stink bug that damages fruits and vegetables in commercial agriculture and residential gardens) making it a potential candidate for managing BMSB.

How do I detect samurai wasp?

Samurai wasp is a small (1.5 mm), black, mobile insect that is difficult to detect in the field. The wasp is best detected by the following ways:

- Wasp walking on BMSB egg mass to “guard” its freshly laid eggs (Fig. 6)
- Darkened BMSB eggs that will soon hatch into adult wasps (Fig. 7)

Why is samurai wasp important for managing BMSB?

BMSB is established in Oregon and lays eggs throughout summer, so there is a consistent availability of host eggs. The use of beneficial insects for biological control is an effective method for managing pests while reducing the need for insecticides.

Aren’t other insects useful for managing BMSB?

Yes, several insect predators consume BMSB eggs and nymphs. Another species of wasp also parasitizes BMSB eggs (Fig. 9), but the samurai wasp is the superior parasitoid because it restricts egg-laying to BMSB eggs.

Where is samurai wasp found?

It is native to China, Japan, and Korea, the same native range of BMSB. Like BMSB, samurai wasp was accidentally introduced to the United States. In the western United States, the wasp was first recorded in Vancouver, Washington in 2015, and in Portland, Oregon in 2016. It is most likely to be detected in wooded areas.

Help OSU researchers map samurai wasp’s distribution across Oregon!

If you see evidence of parasitized egg masses, visit [http://agsci.oregonstate.edu/bmsb](http://agsci.oregonstate.edu/bmsb) for information on how to report a finding.

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