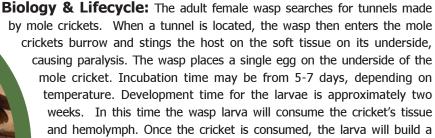
## BIOLOGICAL CONTROL: Larra Wasp, *Larra bicolor*



bicolor originated in South America along with its host. It is distributed in tropical regions worldwide. They are not able to survive in temperate regions.

Adult: The L. bicolor female is approximately 22 mm with the males smaller in length.

cocoon out of cemented soil particles and emerge in about a week.

The adult wasp is completely black except for its abdomen which is red. The head has silverywhite markings. The wings are smoky brown to indigo blue.

brown to inalgo blue.

**Immature:** The larvae will develop as an ectoparasitoid, undergoing five instars.

**Host Species:** The hosts are *Scapteriscus* mole crickets. The host, like the wasp, originated in South America. There are three species of *Scapteriscus - S. abbreviatus, S. borellii* and *S. vicinus* which occur in Florida, and all are attacked by *L. bicolor*.

**Habitat/Nutritional Requirements:** *Larra bicolor* is distributed worldwide in tropical regions. They obtain nectar by feeding on wildflowers. *Hyptis atrorubens* and *Spermacoce verticillata* are know nectar sources of *L. bicolor. Spermacoce verticillata* was introduced as a nectar source in Florida in areas where *L. bicolor* has been released.

**Effectiveness:** *L. bicolor* is a very effective biocontrol agent of the *Scapteriscus* mole crickets. UF/IFAS is distributing these wasps to all Florida counties as a biological control agent.

## References:

Arévalo H.A. and J.H. Frank. 2005. Nectar sources for *Larra bicolor* (Hymenoptera: Sphecidae), a parasitoid of *Scapteriscus* mole crickets (Orthoptera: Gryllotalpidae), in northern Florida. Florida Entomologist 88: 146-151.

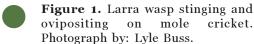
http://ipm.ifas.ufl.edu/reports/mole\_cricket\_frank1.htm

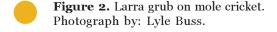
http://molecrickets.ifas.ufl.edu/mcri0007.htm

 $http://creatures.if as.ufl.edu/beneficial/Larra\_wasps.htm$ 

by







**Figure 3.** Larra bicolor feeding on flower. Photograph by: Lyle Buss.

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