

International scientific conference "Fruit flies and other dipterous plant pests", July 9–12, 2012 Riga (Latvia)

## **The parasitism rate of *Diglyphus isaea* (Hymenoptera: Eulophidae) on *Liriomyza sativae* (Diptera: Agromyzidae) in Mugla Province**

**H. S. Civelek, E. M. Yildirim, O. Dursun, Ö. Kaban**

*Liriomyza sativae* Blanchard, 1938 (Diptera: Agromyzidae) is an important pest on bean in Turkey. *Diglyphus isaea* (Walker, 1838) (Hymenoptera: Eulophidae) is one of the most common parasitoid of *Liriomyza sativae*.

The aim of this study was to determine the natural parasitism rate of *Diglyphus isaea* on *Liriomyza sativae*. This study was carried out during autumn seasons of 2006 and 2007 in six bean fields in Mugla province. No insecticide treatment was applied in all experimental fields throughout the production period in all experimental fields. The emerging leafminers and parasitoid adults were obtained and counted in the weekly sample leaves at laboratory.

The parasitism rates were 32.01% for 2006 and 32.97% for 2007. The correlation coefficient was significantly positive between *Liriomyza sativae* and *Diglyphus isaea* population in both years ( $P < 0.01$ ).

**Key words:** *Liriomyza sativae*, *Diglyphus isaea*, parasitoid, parasitism ratio

**Author address:** Mugla University, Faculty of Science Department of Biology Kötekli Mugla Turkey  
(chasan@mu.edu.tr)