

عنوان مقاله:

Side effects of three pesticides on the black bean aphid parasitoid, *Lysiphlebus fabarum* (Marshall) (Hymenoptera: Aphidiidae)

محل انتشار:

اولین همایش ملی گیاهان دارویی، طب سنتی و کشاورزی ارگانیک (سال: 1393)

تعداد صفحات اصل مقاله: 12

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خلاصه مقاله:

In this study, the side effects of thiacloprid+deltamethrin, pirimicarb and pymetrozine applied at the maximum recommended field rates were investigated on the thelytokous population of *Lysiphlebus fabarum* (Marshall) using the IOBC and the life table methods. Newly emerged females (less than 24 h) were placed in drum cells contaminated with dry residues of pesticides (distilled water in the control). Thiacloprid+deltamethrin was very toxic to *L. fabarum*; causing 100% mortality. Pirimicarb produced significant adverse effects on the mortality and fecundity; while pymetrozine did not. According to the IOBC standards, thiacloprid+deltamethrin ($E = 100\%$), pirimicarb ($E = 62.49\%$) and pymetrozine ($E = 10.35\%$) were classified as harmful, slightly harmful and harmless, respectively. Life table assays revealed that intrinsic rate of natural increase (r_m) value in thiacloprid+deltamethrin (50%) and pirimicarb (12%) were significantly reduced; while pymetrozine had no effect on the intrinsic rate of natural increase (r_m). Both the IOBC and the life table assay methods showed that pymetrozine was not toxic to *L. fabarum*. Therefore, the use of this pesticide in the IPM of black bean aphid along with this natural enemy seems to be practicable.

کلمات کلیدی:

thiacloprid+deltamethrin, pirimicarb, pymetrozine, life table, IOBC

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