

عنوان مقاله:

Effects of imidacloprid, indoxacarb and endosulfan on egg, third-instar larva and pupa of green lacewing Chrysoperla (carnea (Neu.: Chrysopidae

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خلاصه مقاله:

The common green lacewing is a known biocontrol agent because of its wide geographical distribution, high compatibility with different agricultural systems, high searching ability and ease of rearing. Adults and larvae were reared on artificial diet and eggs of Anagasta kuehniella (Zell.) respectively. The toxicity of insecticides was assessed on eggs (dipping method), third-instar larvae (contact method), and pupae (topical application) of Chrysoperla carnea Stephens. In order to study the sublethal effects, the third-instar larvae were treated with recommended field rate of each insecticide. The effects of the insecticides were assessed using demographic toxicology methods. Rearing conditions were YF ± YºC, Fo ± 10% relative humidity and a photoperiod of 1F: A h (L: D). The results revealed that the insecticides did not affect eggs even at doses higher than recommended field rates. The LDao values, of endosulfan, imidacloprid and indoxacarb for pupal stage were estimated to be IFF, MM, and YI Âug ai/insect respectively. Since the insecticides did not affect the third-instar larvae at the recommended field rate, the LCao was not estimated for this stage. The results showed that, only net reproduction rate (Ro) was significantly affected by treatments. The highest and lowest amounts of rm were 0.1VF and 0.10Y for control and indoxacarb treatmnets respectively. Based on both acute toxicity and demographic toxicology methods, the rate of toxicity of the tested .insecticides was as follows: indoxacarb > endosulfan > imidacloprid

کلمات کلیدی: بالتوری سبز, اثرات کشندگی و زیرکشندگی, سمشناسی دموگرافیک

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