

小黑瓢虫与其竞争种作用系统研究：种间竞争

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收稿日期 修回日期 网络版发布日期 2007-12-10 接受日期

摘要

Delphastus catalinae and Serangium japonicum are the important natural enemies of Bemisia tabaci, of which, the former is exotic, and the latter is indigenous. In this paper, the influence of interspecies competition on the population growth of D. catalinae and S. japonicum was studied under conditions of single and mixed rearing, and Lotka-Volterra equation was used to simulate the competition when more and less preys provided for the two ladybirds. The results showed that the population growth of D. catalinae was greater than that of S. japonicum when single rearing, and the population growth of S. japonicum was greater than that of D. catalinae when mixed rearing. In the competition system of the two ladybirds, S. japonicum was dominant, while D. catalinae could exist simultaneously.

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