

研究报告

龟纹瓢虫在棉株上对棉蚜的搜索与捕食行为

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摘要

研究了龟纹瓢虫在棉花上对不同密度、不同空间分布、不同来源棉蚜的搜索与捕食行为. 结果表明, 龟纹瓢虫对棉蚜的搜索活动随棉蚜密度增加而下降; 当棉花上有充足的棉蚜时, 瓢虫主要搜索和捕食棉花上部的棉蚜, 很少捕食棉花中部的棉蚜, 极少捕食下部的棉蚜; 瓢虫对棉花不同部位上分布的2种不同来源的棉蚜捕食量没有差异; 但当棉花上部主要为美9101棉花棉蚜时, 瓢虫的搜索活动明显下降. 龟纹瓢虫的捕食行为与蚜虫密度和空间分布密切相关.

关键词 [龟纹瓢虫](#) [棉蚜](#) [搜索行为](#) [捕食行为](#)

分类号

Behaviors of *Propylaea japonica* in searching and preying cotton aphid *Aphis gossypii* in the cotton plant

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Abstract

The study showed that the searching activity of *P. japonica* on cotton aphid *Aphis gossypii* decreased gradually with decreasing aphid density. When enough *A. gossypii* existed, *P. japonica* had a preferential searching and preying activity on the top of cotton plant. There was no significant difference in the preying activity of *P. japonica* at different positions of cotton plant, while the searching activity of the ladybird beetle was significantly lower on cotton M9101 than on cotton Zhongmian 13. The preying behavior of *P. japonica* was significantly correlated with the density and distribution of *A. gossypii*.

Key words

[Propylaea japonica](#) [Aphis gossypii](#) [Searching behavior](#) [Preying behavior](#)

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