

印度查谟地区甜橙上柑桔潜叶蛾为害动态及其与重要气候因子的关系(英文)

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Infestation dynamics of *Phyllocnistis citrella* Stainton (Lepidoptera:Phyllocnistidae) on Mosambi (*Citrus sinensis*) and its relation with important weather factors in Jammu, India

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全文: PDF (0 KB) HTML (1 KB) 输出: BibTeX | EndNote (RIS) 背景资料

摘要 本研究旨在揭示印度查谟柑桔潜叶蛾 *Phyllocnistis citrella* Stainton 为害甜橙 *Citrus sinensis* 的季节性变化, 以及降雨量、相对湿度和温度等重要的气候因子对其种群的影响。本文对不同季节印度查谟的一个甜橙园里的柑桔潜叶蛾丰度进行了调查, 从2005年3月到2008年2月每两周调查一次。柑桔潜叶蛾在一年内有3个为害高峰, 分别是4月中旬、7月中旬和9月中旬, 这与甜橙新营养梢的生长期相吻合。相关分析表明, 上午和下午的相对湿度和平均相对湿度与柑桔潜叶蛾的数量呈负相关; 然而, 平均降雨量、最高气温、最低气温和平均气温与柑桔潜叶蛾的数量呈正相关。降雨量和温度与柑桔潜叶蛾为害程度呈显著正相关。总之, 柑桔潜叶蛾的数量不能简单地通过观察某一特殊地区的相对湿度来预测, 而降雨量和温度在影响虫害方面均起着重要的作用。

关键词:

Abstract:

The objective of this work is to study the seasonal variation of percentage infestation, and effect of important weather factors viz. rainfall, relative humidity and temperature on the population of Citrus leaf miner, *Phyllocnistis citrella* Stainton in J&K State of India. Seasonal abundance of Citrus leaf miner was investigated fortnightly in an orchard of Mosambi (*Citrus sinensis*) from March 2005 to Feb 2008, located in Jammu. There were three infestation peaks in a year that coincided with the availability of new vegetative flush viz. mid April, mid July and mid September. Correlation analysis indicated that morning, afternoon and average relative humidity were negatively correlated, whereas, average rainfall, and maximum, minimum and average temperature were positively correlated with the population of citrus leaf miner. Rainfall and temperature had significant positive correlation with the population infestation. In general, population of *P. citrella* can not be predicted simply by observing the relative humidity of a particular area. However, rainfall and temperature all play important roles in affecting the pest infestation.

Key words:

出版日期: 2011-04-11

通讯作者: Monika CHHETRY

引用本文:

. 印度查谟地区甜橙上柑桔潜叶蛾为害动态及其与重要气候因子的关系(英文)[J]. 昆虫学报, 2011, 54(3): 327-332.

. Infestation dynamics of *Phyllocnistis citrella* Stainton (Lepidoptera:Phyllocnistidae) on Mosambi (*Citrus sinensis*) and its relation with important weather factors in Jammu, India[J]. ACTA ENTOMOLOGICA SINICA, 2011, 54(3): 327-332.

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