

菲律宾实蝇生物学特性研究

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Bionomics of *Bactrocera (Bactrocera) philippinensis* (Drew & Hancock) (Diptera: Tephritidae)

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摘要

菲律宾实蝇 *Bactrocera (Bactrocera) philippinensis* (Drew & Hancock) 是重要的检疫性有害生物, 严重危害芒果 *Mangifera indica* L.、木瓜 *Carica papaya* L. 和菠萝蜜 *Artocarpus heterophyllus* Lam. 等水果。本文在室内实验条件下对菲律宾实蝇生物学特性进行了较为系统的研究。结果表明: 菲律宾实蝇在 6~18 h 羽化率达 93.93%。成虫活动、寿命、交配和产卵与温度、光照密切相关。补充营养能显著延长成虫寿命。菲律宾实蝇生长、发育和繁殖的适宜温度为 25~30℃。25℃ 和 30℃ 时平均产卵量分别为 627.35 粒和 652.57 粒。发育起点温度和世代有效积温分别为 14.31℃ 和 450.43 日·度。温度与发育历期呈显著的负相关 ($r=-0.9005$)。本研究为菲律宾实蝇的检疫处理和田间防治技术研究提供了重要的基础资料。

关键词:

Abstract:

The fruit fly, *Bactrocera (Bactrocera) philippinensis* (Drew & Hancock), is an important quarantine pest. It has been reported to damage many fruits seriously, such as mango *Mangifera indica* L., papaya *Carica papaya* L. and jackfruit *Artocarpus heterophyllus* Lam. The bionomics of the fruit fly was systematically observed and studied in the laboratory. The results showed that their emergence percentage was 93.93% during 6-18 h. Their adult activity, longevity, mating and oviposition were related significantly to temperature and light. The adult longevity was prolonged by supplementary nutrition. The suitable temperature of their development and fecundity was 25°C-30°C. The fruit fly laid 627.35 and 652.57 eggs on average at 25°C and 30°C, respectively. The thermal threshold temperature and the effective accumulated temperature for the development were 14.31°C and 450.43 day-degree, respectively. The developmental duration was correlated negatively with temperature ($r=-0.9005$). This study provided the important basic information for the technique of quarantine treatment and field control of the fruit fly.

Key words:

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