

[本期目录](#) | [下期目录](#) | [过刊浏览](#) | [高级检索](#)[\[打印本页\]](#) [\[关闭\]](#)**植物保护—研究报告****温度对黄胸蓟马生长发育的影响**卢辉¹,徐雪莲¹,卢芙蓉²,陈青¹,陈俊³**摘要:**

为了明确温度对黄胸蓟马*Thrips hamaiensis* (Morgan)生长发育的影响,在5种恒温条件下(20, 24, 28, 32和36℃)对黄胸蓟马实验种群生长发育情况进行了研究。实验结果表明:在20~28℃温度范围内,黄胸蓟马的发育历期随温度升高而显著缩短,当温度超过32℃时,其发育历期延长;在20~36℃温度范围内,发育速率与温度呈显著的正相关;黄胸蓟马卵、若虫、预蛹、伪蛹及卵-成虫的发育起点温度分别为15.67、9.48、11.06、8.54和11.39℃,有效积温分别为91.23、82.35、41.23、34.81和251.43℃?d;在20~36℃之间,黄胸蓟马世代存活率由大到小的顺序为32℃>28℃>24℃>20℃>36℃。据此认为温度对黄胸蓟马实验种群的生长发育和存活率影响明显。

关键词: 存活率**Effects of Temperature on Development and Reproduction of *Thrips hamaiensis* (Morgan)****Abstract:**

To research the influence of temperature on the development and reproduction of *Thrips hamaiensis* (Morgan), series of experiments were carried out to investigate the experimental population growth of *T. hamaiensis* at five constant temperatures (20, 24, 28, 32 and 36℃) in the laboratory. The results indicated that, within the range from 20℃ to 28℃, the developmental duration of *T. hamaiensis* evidently reduced with the increase of temperature, while increased when the temperature went beyond 32℃; within the range from 20℃ to 36℃. The developmental rate of *T. hamaiensis* increased with the increasing temperature. The development threshold temperature of *T. hamaiensis* at its egg, nymphal, prepupal, pupal and egg-adult stages was 15.67, 9.48, 11.06, 8.54 and 11.39℃ respectively, and the effective accumulated temperatures was 91.23, 82.35, 41.23, 34.81 and 251.43℃?d respectively. Within the range of 20~36℃, the generation survival rate of *T. hamaiensis* decreased according to the sequence of 32℃, 28℃, 24℃, 20℃ and 36℃. It can be concluded that the temperature had great influence on the developmental duration and survival rate of experimental populations of *T. hamaiensis*.

Keywords: survival rate**收稿日期** 2011-04-18 **修回日期** 2011-05-19 **网络版发布日期** 2011-09-06**DOI:****基金项目:**

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通讯作者: 陈青**作者简介:**

作者Email: chqingztq@163.com

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