

研究论文

斜纹夜蛾和烟青虫在烟草上的生态位

周忠实¹, 陈泽鹏², 许再福^{1,*}

1.华南农业大学昆虫学系, 广州510642

2.广东省烟草公司, 广州510030

收稿日期 2006-2-22 修回日期 2006-7-18 网络版发布日期: 2006-10-25

摘要 斜纹夜蛾和烟青虫同是烟草上食叶类的重要害虫, 对烟叶产量和品质均可构成严重的影响。研究两者在烟草上的生态位和种间关系, 结果表明斜纹夜蛾的空间生态位宽度和空间生态位重叠指数均略大于烟青虫, 两者空间生态位的比例相似性为0.0973, 说明两种害虫在空间资源上几乎不存在竞争。斜纹夜蛾和烟青虫的时间生态位及时间生态位重叠指数很接近, 时间生态位的比例相似性高达0.9485。斜纹夜蛾和烟青虫在烟草植株上、中、下部叶片共存的比例分别为6.11%、3.23%和0.51%。由于对空间垂直资源的不同选择, 使它们可以同时同株烟草上为害而互不干扰。

关键词 [烟草](#), [斜纹夜蛾](#); [烟青虫](#); [生态位](#)

分类号 [Q14, Q968. 1](#)

Niches of *Spodoptera litura* (Fabricius) and *Helicoverpa assulta* (Guenée) in tobacco plants

ZHOU Zhong-Shi¹, CHEN Ze-Peng², XU Zai -Fu^{1,*}

1. Department of Entomology, South China Agricultural University, Guangzhou 510642, China;

2. Guangdong Company of Tobacco, Guangzhou 510030, China

Abstract Tobacco caterpillar (*Spodoptera litura* (Fabricius)) and oriental tobacco budworm (*Helicoverpa assulta* (Guenée)) are important insect pests on tobacco which causing serious damage by defoliation. The niches and relationships of the two species were studied in this paper. The results indicated that the spatial niche breadth value and spatial niche overlap value of *S.litura* were higher than that of *H.assulta*, the spatial niche similarity between them was 0.0973. The temporal niche breadth values and temporal niche overlap values of *S.litura* and of *H.assulta* were very similar, and the temporal niche similarity between them was 0.9485. The coexistence ratios of *S.litura* and *H.assulta* on upper leaves, mid-leaves and underneath leaves of tobacco plants were only 6.11%, 3.23% and 0.51%, respectively. The results may suggest that the competition between *S.litura* and *H.assulta* is extremely improbable. The two species can occur and damage on the same tobacco plant at the same time because they incline to choose different spatial vertical resources.

Key words [Tobacco](#) _ [Spodoptera litura](#) _ [Helicoverpa assulta](#) _ [niche](#)

DOI

通讯作者 许再福 xuzai fu@scau.edu.cn

扩展功能

本文信息

- ▶ [Supporting info](#)
- ▶ [\[PDF全文\]\(0KB\)](#)
- ▶ [\[HTML全文\]\(0KB\)](#)
- ▶ [参考文献](#)

服务与反馈

- ▶ [把本文推荐给朋友](#)
- ▶ [加入我的书架](#)
- ▶ [Email Alert](#)
- ▶ [文章反馈](#)
- ▶ [浏览反馈信息](#)

相关信息

- ▶ [本刊中 包含“烟草,斜纹夜蛾; 烟青虫; 生态位”的 相关文章](#)
- ▶ 本文作者相关文章

- [周忠实](#)
- [陈泽鹏](#)
- [许再福](#)