# PLANT NUTRITION AND FER

ON 111±6999/S

首页 期刊介绍 编 委 会 投稿指南 期刊订阅 联系我们 留 言 板 English

植物营养与肥料学报 » 2011, Vol. 17 » Issue (5):1243-1249 DOI:

研究论文

最新目录 | 下期目录 | 过刊浏览 | 高级检索

<< Previous Articles | Next Articles >>

# 非豆科作物套种时间对减少烤烟后期氮素吸收量的研究

孙 健, 李志宏\*, 张云贵, 夏 昊

中国农业科学院农业资源与农业区划研究所,北京 100081

Effects of intercropping time of non leguminous plants on tobacco nitrogen absorption at late growth stages

SUN Jian, LI Zhi hong<sup>\*</sup>, ZHANG Yun gui, XIA Hao\*

Institute of Agricultural Resources and Regional Planning, CAAS, Beijing 100081, China

摘要	参考文献	相关文章
----	------	------

Download: PDF (852KB) HTML 1KB Export: BibTeX or EndNote (RIS) Supporting Info

**摘要** 采取田间原位培养和室内好气培养相结合的方法,对籽粒苋、黑麦草两种非豆科作物不同套种时间降低烤烟生长后期土壤氮素矿化进行了研究。结果表明,籽粒苋、黑麦草两种非豆科作物与烤烟进行合理套种时,能参与竞争吸收土壤中的养分。田间试验条件下,烤烟移栽后35、49 d 套种籽粒苋,49 d套种黑麦草,移栽后105 d氦素矿化分别减少了65.81%、54.57%和65.90%,与对照形成显著差异;室内培养条件下,烤烟移栽后49 d套种籽粒苋,移栽后49~77 d时显著降低了培养矿化量,有助于减少烤烟后期的氦素吸收。表明套种籽粒苋和黑麦草均对吸收植烟土壤过剩养分有一定的作用,以烤烟移栽后49 d套种黑麦草或籽粒苋效果最佳。

关键词: 套种 烤烟 籽粒苋 黑麦草 氮素 矿化

Abstract: In this paper, in order to partially resolve the problem of over-nutrition of tobacco at the late growth stages, the field plot experiment in situ incubation and the indoor experiment in the aerobic incubation were carried out to study the effects of different intercropping times of Amaranth and rye grass on decreasing nitrogen mineralization at the late growth stages. The results show that the two non leguminous plants, Amaranth and rye grass, could absorb soil nutrients and compete with flue-cured tobacco when they are intercropped. In the field plot experiment, the mineralization amounts of intercropping Amaranth from the 35th days, Amaranth from the 49th days and rye grass from the 49th days are decreased by 65.81%, 54.57% and 65.90%, and the effects are significant different from those of the control. In the indoor experiment, the mineralization amount of intercropping Amaranth from the 49th days is decreased significantly during 49-77 d, and this could cause less nitrogen absorption. The intercropping rye grass and Amaranth from the 49th days are the best.

Keywords: intercropping tobacco Amaranth rye grass nitrogen mineralization

Received 2011-03-15; published 2011-09-01

Fund:

国家烟草专卖局科技项目

Corresponding Authors: 孙健 Email: healthy0501@sina.com

### 引用本文:

孙健 李志宏 张云贵 夏昊.非豆科作物套种时间对减少烤烟后期氮素吸收量的研究[J] 植物营养与肥料学报, 2011,V17(5): 1243-1249

SUN Jian LI Zhi-hong ZHANG Yun-gui XIA Hao.Effects of intercropping time of non leguminous plants on tobacco nitrogen absorption at late growth stages[J] Acta Metallurgica Sinica, 2011,V17(5): 1243-1249

# Service

- ▶ 把本文推荐给朋友
- ▶ 加入我的书架
- ▶ 加入引用管理器
- ▶ Email Alert
- ▶ RSS

# 作者相关文章

- ▶ 孙健
- ▶ 李志宏
- ▶ 张云贵
- ▶ 夏昊