# ISSN 1003-505X

# PLANT NUTRITION AND FIRE

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 » 2005, Vol. 11 » Issue (6):731- 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 >>

#### 太湖流域麦田土壤氮素流失过程的模拟研究

肖强1;张维理2;王秋兵1;武淑霞2

1.沈阳农业大学土地与环境学院 辽宁沈阳110161; 2.中国农业科学院土壤肥料研究所 北京100081

Nitrogen losses under simulated rainfall conditions in rice-wheat rotation of Taihu lake watershed plain

XIAO Qiang1;ZHANG Wei-Ii2;WANG Qiu-bing1;WU Shu-xia2\*

1 Shenyang Agriculture University; Shenyang; Liaoning 110161; China; 2 Institute of Soil and Fertilizer; CAAS; Beijing100081; China

摘要	参考文献	相关文章

Download: PDF (2745KB) HTML OKB Export: BibTeX or EndNote (RIS) Supporting Info

**摘要**应用田间模拟降雨,研究了太湖流域稻麦轮作方式下,不同雨强和施氮水平对农田氮素径流流失的影响。结果显示,随施氮量增加,农田径流液中氮素的平均浓度和氮素径流累积流失量提高,两者间呈显著正相关。降雨量相同的条件下,低雨强农田产生径流时间较长,而高雨强引起的农田径流量较高;低雨强引起的农田氮素径流累积流失量较高,高雨强引起的农田氮素径流累积流失量较低,这种现象在中、高施氮水平条件下更为明显。试验还表明,在降雨量相同的条件下,降雨持续时间长的小雨引起的农田氮素径流流失量要超过降雨持续时间短的大雨。

关键词: 太湖流域 农田径流量 模拟降雨 农田氮素流失量 太湖流域 农田径流量 模拟降雨 农田氮素流失量

Abstract: Field trials of rainfall simulation were carried out to study effects of different rainfall intensities and nitrogen fertilizer application rates on nitrogen losses in rice-wheat rotation of Taihu Lake Watershed. It was showed that the mean concentration and accumulated amounts of runoff losses of nitrogen were highly correlated with N-application rates. With same total rainfall, runoff lasted longer under the low rainfall intensity than that under the higher one, but the total runoff amount is more under the higher rainfall intensity. While accumulated amounts of runoff losses of nitrogen under low rainfall intensity is more than that under higher rainfall intensity, which was more obvious with middle and high N-application rates. The experiment indicated that the lower rainfall intensity treatment, lasting longer time, caused more losses amounts of runoff nitrogen than that under the high rainfall intensity with same total rainfall amount.

# Keywords:

### 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

## 引用本文:

肖强1;张维理2;王秋兵1;武淑霞2.太湖流域麦田土壤氮素流失过程的模拟研究[J] 植物营养与肥料学报, 2005,V11(6): 731-

XIAO Qiang1; ZHANG Wei-li2; WANG Qiu-bing1; WU Shu-xia2. Nitrogen losses under simulated rainfall conditions in rice-wheat rotation of Taihu lake watershed plain[J] Acta Metallurgica Sinica, 2005, V11(6): 731-

Copyright 2010 by 植物营养与肥料学报