

土壤肥料科学

缓/控释肥在玉米生产中的应用与展望

王宜伦, 李潮海, 王 瑾, 谭金芳

1. 河南农业大学资源与环境学院

2.

摘要:

为推动缓/控释肥料在玉米生产中的应用, 实现玉米简化栽培生产, 本文介绍了缓/控释肥料的概念、特性及意义。概述了国内报道的有关缓/控释肥料在玉米上的效应研究, 试验结果表明: 缓/控释肥料与等养分量的常规化肥相比在不同地区不同土壤对玉米均有不同程度的增产, 增产率5.1-19.6%, 提高化肥当季利用率3.54%-19.1%, 还可以提高玉米子粒品质等。提出了缓/控释肥料在我国玉米生产上应用存在的主要问题, 对今后缓/控释肥料的应用前景进行了展望, 应大力研制和推广玉米专用缓/控释肥料。

关键词: 缓/控释肥料 玉米 展望

Application and Prospect of Slow/Controlled Release Fertilizers in Maize Production

Abstract:

In this paper, in order to promoting slow/controlled release fertilizers (SRFs) applying to maize production, achieve maize simplified cultivation production, the SRFs concept, characteristics and significance are introduced. The effects of SRFs in maize production are summarized in china, and the results showed that: the SRFs could make maize yield increase compared with conventional fertilizer in the same amount nutrients in different soils and regions, the percentage increases is 5.1-19.6%, current quarter utilization rate of fertilizer was improved with 3.54% -19.1 %, and was also the maize grain quality. the main problems are put forward about SRFs applying to maize production in China, the application prospect of SRFs is discussed in the future, and the maize-specific SRFs should be developed and promoted actively.

Keywords: Slow/Controlled Release Fertilizers Maize Prospect

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通讯作者: 王宜伦

作者简介:

作者Email: wangyilunrl@163.com

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