













Q GO

News





Japanese journal of crop science

The Crop Science Society of Japan D Info Link

TOP > Journal List > Available Issues > Table of Contents > Abstract

ONLINE ISSN: 1349-0990 PRINT ISSN: 0011-1848

■ Japanese journal of crop science Vol.65, No.3(1996)pp.453-459

[Full-text PDF (919K)][References]

Effect of Charcoal on the Yield of Sweet Potato

Katsunori ISOBE, Hideaki FUJII and Yoshio TSUBOKI

- 1) College of Agriculture and Veterinary Medicine Nihon University
- 2) College of Agriculture and Veterinary Medicine Nihon University
- 3) College of Agriculture and Veterinary Medicine Nihon University

[Published: 1996/09/05] [Released: 2008/02/14]

Abstract:

Some investigations were made to clarify the effects of charcoal on soil environment and the yield of sweet potato (Ipomoea batatas Lam.). Because charcoal contains a large amount of potassium, application of charcoal increased the contents of exchangeable potassium in the soil. When applied at a rate of 2, 000 kg/10a, charcoal improved the physical properties of the soil. That is to say, it increased the gaseous phase and porosity, decreased the solid and gaseous phase, and helped create environment where sweet potato can easily absorb potassium. As a result, it was clarified that the use of charcoal increased the $\text{K}_2\text{O-N}$ ratio in the tuberous root and promotes the growth of the tuberous root, thus increasing the yield of sweet potato.

Keywords:

Charcoal, $\rm K_2O\text{-}N$ ratio, Sweet potato (Ipomoea batatas Lam.), Three phases of soil

[Full-text PDF (919K)][References]

Copyright© Crop Science Society of Japan

Access Policy

Privacy Policy

Link Policy

Contact

Amendment Policy

JST

Japan Science and Technology Agency