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ONLINE ISSN : 1883-2261

PRINT ISSN : 0389-1763

Japanese Journal of Farm Work Research

Vol. 42 (2007) , No. 2 pp.69-74

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The Estimation of Absorbed Nitrogen Using Increased Leaf Number in Drip-fertigated Spring Cucumber

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(Received April 14, 2005)

(Accepted May 2, 2007)

Abstract

Destructive analysis was used to estimate the half-monthly nitrogen content and related growth parameters of drip-fertigated spring cucumber.

Three fertilizing treatments were compared. The amount of nitrogen applied half-monthly varied independently, but the total amount was same. There was little difference in the growth and yield of cucumber among nitrogen application patterns, which suggests that soil has a buffering capacity on cucumber yield even if the amount of nitrogen fertilizer changed. Destructive analysis including three all treatments found a significant correlation between nitrogen content of cucumber plant and the number of increased leaves (absorbed nitrogen (g/m²/14 days)=increased leaves (no./m²/14 days)×0.0441+2.189). This relationship will lead to reduce nitrogen application through counting of leaves twice a month.

Key words

[Spring cucumber](#), [Drip fertigation](#), [Nitrogen](#), [Growth diagnosis](#), [Leaf number](#)

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Tatsuo SATO, Kyoko MATSUURA, Jiro NARIMATSU and Yutaka YONEYAMA
(2007): The Estimation of Absorbed Nitrogen Using Increased Leaf Number in Drip-
fertigated Spring Cucumber . Japanese Journal of Farm Work Research 42: 2 69-74 .

doi:10.4035/jsfwr.42.69

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