



Japanese Journal of Farm Work Research Japanese Society of Farm Work Research

					7 33.3
Available Issues Ja	<u>apanese</u>			>>	Publisher Site
Author:		ADVANCED	Volume	Page	
Keyword:		Search			Go
	Add to Favorite / CArticles	citation 🗲	Add to Favorite Publication	Register Alerts	My J-STAGE HELP

<u>TOP</u> > <u>Available Issues</u> > <u>Table of Contents</u> > <u>Abstract</u>

ONLINE ISSN: 1883-2261 PRINT ISSN: 0389-1763

Japanese Journal of Farm Work Research

Vol. 43 (2008), No. 2 pp.53-58

[PDF (637K)] [References]

Absorption of Fall-Applied Nitrogen in Satsuma Mandarin Orchard with Rat Tail Fescue as Cover Crop

Kei ISHIKAWA¹⁾ and Hideya KIMURA²⁾

- 1) Ehime Fruit Tree Experiment Station
- 2) National Agricultural Research Center for Western Region

(Received January 15, 2008) (Accepted May 15, 2008)

Abstract

A ¹⁵N-tracer method was used to study the absorption of nitrogen applied in the fall to satsuma mandarin trees and Rat tail fescue, *Vulpia myuros*, in a pot test in which a satsuma mandarin tree was grown with the grass (Rat tail fescue) as a cover crop. Nitrogen absorption by the trees in a plot covered with Rat tail fescue was about 41% of that in the plot without cover crop. The difference of the nitrogen distribution was particularly observed in new leaves and fine roots. The absolute amount of nitrogen absorbed by the grass in a sod culture plot was about twice that absorbed by the trees in the plot, and the absorbed nitrogen was distributed in the aboveground parts in Rat tail fescue. The trees utilized 19.5% of the fall-applied nitrogen in the plot with Rat tail fescue and 48.1% in the plot without cover crop. However, total utilization (trees+grass) in the sod culture plot reached 60.9%, which was about 1.3 times the rate in the plot without a cover crop.

Key words

Cover crop, Fall-applied nitrogen, ¹⁵N-tracer method, Rat tail Fescue, Satsuma mandarin

[PDF (637K)] [References]

To cite this article:

Kei ISHIKAWA and Hideya KIMURA (2008): Absorption of Fall-Applied Nitrogen in Satsuma Mandarin Orchard with Rat Tail Fescue as Cover Crop . Japanese Journal of Farm Work Research 43: 2 53-58.

doi:10.4035/jsfwr.43.53

JOI JST.JSTAGE/jsfwr/43.53

Copyright (c) 2009 Japanese Society of Farm Work Research









Japan Science and Technology Information Aggregator, Electronic

STAGE

