



Journal of Pesticide Science
Pesticide Science Society of Japan

[Available Issues](#) | [Japanese](#) >> [Publisher Site](#)

Author: Keyword: [ADVANCED](#)



[TOP](#) > [Available Issues](#) > [Table of Contents](#) > [Abstract](#)

ONLINE ISSN : 1349-0923

PRINT ISSN : 1348-589X

Journal of Pesticide Science

Vol. 33 (2008) , No. 2 pp.159-165

[\[PDF \(209K\)\]](#) [\[References\]](#)

Excess water storage depth—a water management practice to control simetryn and thiobencarb runoff from paddy fields

Thai Khanh Phong¹⁾, Hirozumi Watanabe¹⁾, Thai Quoc Hien²⁾, Son Hong Vu³⁾, Taku Tanaka⁴⁾, Dang Thi Tuyet Nhung¹⁾ and Takashi Motobayashi¹⁾

1) Tokyo University of Agriculture and Technology

2) Vietnam Institute of Water Resources Research

3) Department of Science and Technology, Ministry of Agriculture and Rural Development

4) University of Milan

(Received: September 21, 2007)

(Accepted for publication: January 30, 2008)

Abstract:

Experiments were carried out to verify the effectiveness of the excess water storage depth (EWSD) in reducing runoff losses of simetryn and thiobencarb from paddy fields upon appreciable rainfall events. A paddy plot having an EWSD of 2 cm was effective in controlling runoff with the herbicide losses of less than 1% of the applied herbicides. Meanwhile, a plot with 0-cm EWSD lost 18.1 and 3.7% of the applied mass of simetryn and thiobencarb, respectively. Therefore, an appropriate EWSD is essential during the recommended 7-day water holding period in order to completely hold the water inside the field in case of rainfall.

Keywords:

excess water storage depth, paddy fields, water management, runoff, simetryn, thiobencarb.

[\[PDF \(209K\)\]](#) [\[References\]](#)

Download Meta of Article [\[Help\]](#)

[RIS](#)

[BibTeX](#)

To cite this article:

Thai Khanh Phong, Hirozumi Watanabe, Thai Quoc Hien, Son Hong Vu, Taku Tanaka, Dang Thi Tuyet Nhung and Takashi Motobayashi, "Excess water storage depth—a water management practice to control simetryn and thiobencarb runoff from paddy fields". *J. Pestic. Sci.* Vol. **33**, pp.159-165 (2008) .

doi:10.1584/jpestics.G07-32

JOI JST.JSTAGE/jpestics/G07-32

Copyright (c) 2008 Pesticide Science Society of Japan

[View "Advance Publication" version \(March 25, 2008\).](#)



[Japan Science and Technology Information Aggregator, Electronic](#)

