International Journal of Agricultural Sciences
Volume **10** | Issue 1| January, 2014 | 390-395

RESEARCH PAPER

Effects on yield and yield components and water productivity as influenced by drip fertigation of aerobic rice

K. VANITHA* AND S. MOHANDASS
Department of Crop Physiology, Tamil Nadu Agricultural University, COIMBATORE (T.N.) INDIA
(Email : vanithacrp@gmail.com)

Abstract : Knowledge on the association of yield components with yield and among themselves will be vital in formulating effective technology development for adoption by the farmers with ease. Drip irrigation at 125% PE with 100% recommended dose of fertilizer treatment recorded significantly higher grain yield of 5643 kg ha^{-1} which was 16 per cent increase over conventional aerobic rice / control. Accordingly, same treatment recorded higher water productivity of 1.051 g grain kg $water^{-1}$ with total water applied was 537 mm. Besides this yield components *viz*., number of panicles, number of grains, spikelet fertility, grain filling rate, panicle harvest index and grain harvest index which could be improved substantially with the fertigation practice thus ultimately resulting in significant improvement in grain yield with adequate water supply.

Key Words : Drip fertigation, Panicle harvest index, Grain harvest index, Grain yield, Aerobic rice

View Point Article : Vanitha, K. and Mohandass, S. (2014). Effects on yield and yield components and water productivity as influenced by drip fertigation of aerobic rice. *Internat. J. agric. Sci.*, **10** (1): 390-395.

Article History : Received : 13.09.2013**; Revised :** 20.11.2013**; Accepted :** 11.12.2013

*** Author for correspondence**