The Application of Combined VAM, P and GA3 Production Technology Package to the Yield of Hot Pepper (Capsicum annuum L.)

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Abstract

The objective of the experiment was to observe the application of several combination of VAM, P and GA3 production technology packages to the yield of hot pepper (Capsicum annuum L.). The experiment was conducted from December 2008 to February 2009 at Jambi University experimental station, which is located in an altitude of 35 m above the sea level. The experimental design was randomized complete block design with 3 replications and 8 treatment levels of production technology package, i.e.: Package 1 = M1P0G1; Package 2 = M1P1G0; Package 3 = M1P0G0; Package 4 = M1P1G1; Package 5 = M0P0G0; Package 6 = M0P0G1; Package 7 = M0P1G0; Package 8 = M0P1G1. The results showed that combination of VAM, P and GA3 significantly affected age of the first flower initiation, number of aborted flower and aborted fruit, number of fruit per plant and fruit weight per plant. The combination of VAM, P and GA3 production technology package (Package 4 = M1P1G1) produced better yield of hot pepper than the other treatments.

[Keywords : Vascular Arbuscular Mycorrhiza (VAM), P, GA3, yield, hot pepper]