

ABSTRACT

EFFECT OF THE COMBINATION OF FERMENTED ORGANIC FERTILIZER (PORASI) FROM GOAT MANURE AND FERMENTED RABBIT URINE LIQUID FERTILIZER ON THE GROWTH AND YIELD OF RICE (*Oryza sativa* L.) USING THE SYSTEM OF RICE INTENSIFICATION (SRI) METHOD

By

A'raaf Dimas Aradea
195001044

Supervisor
Rudi Priyadi
Suhardjadinata

System of Rice Intensification (SRI) with organic farming technology is one of the alternatives in environmentally friendly rice cultivation system and supports sustainable agriculture to increase rice production in Indonesia. The purpose of this study was to determine the effect of the application of a combination of Fermented Organic Fertilizer (PORASI) from goat manure and fermented rabbit urine liquid fertilizer on the growth and yield of rice using the System Rice Intensification (SRI) method. The experiment was conducted from February to June 2024 in Cisayong sub-district, Tasikmalaya district. The study was conducted using an experimental method using a Randomized Block Design (RAK) with 5 treatments and repeated 5 times. The combination of Fermented Organic Fertilizer (PORASI) from goat manure and rabbit urine liquid fertilizer concentrations tested were: A (control), B (Kk 12 t/ha + Uk 0ml/L), C (Kk 9 t/ha + Uk 150 ml/L), D (Kk 6 t/ha + Uk 300 ml/L), E (Kk 3 t/ha + Uk 450 ml/L). The observed variables were: (a) plant height, (b) number of tillers, (c) number of panicles per hill, (d) number of grains per hill, (e) weight of 100 grains of grain, (f) dry harvested grain (GKP), (f) dry milled grain (GKG). The results of the study showed that the provision of a combination of fermented organic fertilizer (PORASI) from goat manure and fermented rabbit urine liquid fertilizer affected plant height, number of tillers, number of panicles per hill, number of grains per hill, weight of 100 grains of grain, dry harvested grain (GKP) and dry milled grain (GKG). Application of Kk 9 t/ha and Uk 150 ml/L produced the best growth and yield of rice grain using the System Rice Intensification (SRI) method.

Keywords : fermented organic fertilizer (PORASI), goat manure, rabbit urine, Rice, System of Rice Intensification (SRI)