

THE EFFECT OF PLANT SPACING AND TRANSPLANT AGE ON THE
GROWTH AND YIELD OF HYBRID RICE PLANT VARIETY HIPA 6 JETE
(*Oryza sativa* L.)

Valentinus Erwin Surya

ABSTRACT

The purpose of this study is to interaction, determines the age of transplanting, plant spacing for the growth and yield of hybrid rice. The experiment was conducted from January to May 2015 in Lingkungan Sumber, Kelurahan Panjang, Kecamatan Ambarawa. Experimental methods that were used are arranged with a split plot. The main plot will be plant spacing which is composed: 20cm x 20cm (J_1), 20cm x 25cm (J_2), 20cm x 30cm (J_3). Sub-plots are seedlings which consisting of : age 14 days after sowing (U_1), age 21 days after sowing (U_2), age 28 days after sowing (U_3). Parameter were measured by the number of leaves, plant height, number of tillers, the weight ratio of the root crown, and the yield components which were observed at the harvest, include: number of panicles, number of grains, grain weight pithy and weight of empty grains. Parameter were analyzed in a variety of significant. If it takes effect, the test will be carried on by using the Duncan Multiple Range Test at 5% level. The best research results were treatment with plant spacing (J_3) 30cm x 20cm, (U_1) seedlings 14 days J_3U_1 that produces 11.3 tons / ha of dry grain harvest, there was an interaction on grain weight pithy and the weight of empty grains.

Keywords: hybrid rice, transplant age, plant spacing, growth and yield.