SERAPAN HARA Ca, Mg, dan S PADA BERBAGAI VARIETAS PADI dan PENGAIRAN *System of Rice Intensification*

(Nutrient Absorption of Ca, Mg, and S in Various Rice Varieties and Irrigation System of Rice Intensification)

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ABSTRACT

An aims of research "Nutrient Absorption of Ca, Mg, and S in Various Rice Varieties and Irrigation System of Rice Intensification" was to determine the effect of various varieties and irrigation on absorption of Ca, Mg and S. In addition, this study also aims to knows the interaction between various varieties and types of irrigation in absorption of Ca, Mg and S.

This research was carried out in the Experimental Field in August-December 2018. This study used an experimental method carried out with a 2x4 strip plot factorial design arranged in a Complete Randomized Block Design (RAKL). First factor consists of 2 levels, that is A1 (intermittent irrigation method) and A2 (continuously inundated irrigation method). Second factor consisted of 4 varieties, that is IR-64, (VIR), Mentik Wangi (VMW), Cianjur (VCI) and Segara Anak (VSA).

The results showed that absorption of Ca, S and dry weight of plant 13th week was effected by various rice varieties and types of irrigation. The Cianjur variety provided the highest absorption of Ca, S and dry weight of 13th week compared to the other varieties. SRI irrigation provides higher S absorption than conventional irrigation. However, Conventional irrigation gives higher absorption of Ca and 13th weeks dry weight of plants than SRI irrigation. There is an interaction between varieties and irrigation on S absorption and grain weight per clump. Cianjur varieties with Conventional irrigation provide the highest S absorption and Cianjur varieties with SRI irrigation provide the highest grain weight per clump compared to other varieties.

Keyword: Prime and local Rice Varieties, SRI Irrigation, Ca, Mg and S Nutrients Absorbance