

The Response of the Growth of Sugarcane Budset (*Saccharum Officinarum* L.) Variety PS 862 to the Length of Seed Storage and Atonic Application at Various Concentrations

Dhona Wiratama

Program Studi Tanaman Perkebunan
Jurusan Produksi Pertanian

ABSTRACT

This study aims to determine the growth response of sugarcane Bud set (*Saccharum officinarum* L.) seedlings after long storage treatment and to determine the growth response of sugarcane Bud set (*Saccharum officinarum* L.) seedlings after being treated with atonic immersion with different concentrations. In this study, atonic growth regulators were applied with a concentration of 0 ml, 2 ml, 4 ml, and 6 ml. Whereas in the long storage treatment, this study used a time measure of 0 days, 2 days, and 4 days. In this research activity, the data obtained from the observations will be processed using the method of variant analysis (ANOVA) level of 5%. If there is a significant difference between treatments, it will be further tested using the DMRT (Duncan Multiple Range Test) level of 5%. Based on the results of the analysis of research and observations that have been carried out by treating the growth response of sugarcane bud sets of PS 862 variety to storage time and atonic application at various concentrations, the results obtained with various observation parameters including germination power, number of leaves (strands), plant height (cm), number of tillers, root length (cm), root wet weight (grams), root dry weight (grams). Whereas from the results of atonic ZPT research on sugarcane bud sets of PS 862 varieties in treatment showed the best results POA1, because it gave a real and best effect on the growth of sugarcane buds.

Keywords: *Sugarcane Plants, Storage Time, Soaking Time at Atonic*