

***THE EFFECT OF TEMPERATURE, STORAGE TIME AND
PACKAGING MATERIALS ON GROWTH OF SUGARCANE
(Saccharum officinarum L.) VARIETY PS 862***

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ABSTRACT

This study aims to determine the effect of temperature, storage time and packaging materials on the viability of sugarcane (Saccharum officinarum L.) seed variety PS 862. This research was conducted September 2021-January 2022 at the Indonesian Sugar Plantation Research Center (P3GI). This study used a split plot randomized block design consisting of 2 factors, where the first factor was the main plot, namely storage time which included 6 days and 3 days of storage and temperature (30°C and 4°C) while the sub plot included packaging materials. (vacuum, sealer and waring). The results of the ANOVA data analysis and the 5% BNJ test showed that temperature treatment, storage time and packaging materials had a highly significant effect on the parameters of germination, stem height, number of tillers, number of leaves and were not significantly different on the parameters of fresh weight and dry weight on seed viability. sugar cane (Saccharum officinarum L.) variety PS 862.

Keywords: Sugarcane variety PS 862 (Saccharum officinarum), Temperature, storage time and packaging materials