

THE EFFECT OF COCONUT WATER AND HWT (HOT WATER TREATMENT) APPLICATIONS ON THE GROWTH OF SUGARCANE (*Saccharum officinarum* L.) BULULAWANG VARIETY R579

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ABSTRACT

*This Research Aims To Know The Effect Of Application Of Coconut Water And Hwt (Hot Water Treatment) On The Growth Of Sugar Cane (*Saccharum officinarum* L.) Bululawang Variety. This research was conducted in Kebonsari Jember from Desember 2021 -February 2022. This study used the method used in this study was a Randomized Block Design (RAK). There are two types of treatment used, namely the length of immersion time with levels P1: 10 minutes, P2: 30 minutes, and P3: 50 minutes. And the second treatment was the concentration of ZPT coconut water with doses of K1: 0%, K2: 20%, K3: 40% and K4: 60%. From these treatments, a combination of 12 treatments was obtained with 3 replications and each treatment combination consisted of 5 samples. The data that has been obtained from the test results are then analyzed using the F test (Anova). If there is a significant effect, further tests using BNT are carried out at the 5% level. The results showed that the length of time Hot Water Treatment with P2 treatment (30 minutes) had a significant effect on the percentage of life. The concentration of coconut water with K2 treatment (20%) significantly affected the live percentage and stem diameter. The interaction of the length of time Hot Water Treatment and the concentration of coconut water with K2P2 treatment (20% coconut water and 30 minutes of Hot Water Treatment time) had a significant effect on the percentage of life and plant height.*

Keywords: Sugarcane Plants, Coconut Water ZPT, Hot Water Treatment