

**PENGARUH HOT WATER *TREATMENT* DAN PEMBERIAN ZPT
ROOTONE F TERHADAP PERTUMBUHAN BIBIT TANAMAN
TEBU VARIETAS VMC 86-550 DENGAN METODE BUDSET
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ABSTRACT

This study aims to determine the Effect of Hot Water Treatment and ZPT Rootone F Administration on the Growth of Sugarcane Seedlings of VMC 86-550 Varieties Using the Budset Method. This research was carried out in January 2022 – May 2022 on the land of the Jember State Polytechnic. This study used a factorial Randomized Group Design (RAK) with the first factor Hot Water Treatment and the second factor ZPT Rootone F, there were 9 combinations of treatments and 3 tests. The HWT soaking duration factor consists of 3 levels, namely (30 minutes, 40 minutes, 50 minutes). The concentration factor of ZPT Rootone F is (0 ppm, 100 ppm, 300 ppm). The observation parameters are germination, plant height, number of leaves, number of saplings, and root volume. Anova testing with BNJ follow-up test with a level of 5%. The results showed that the Hot Water Treatment treatment differed markedly from the parameters of plant height of 30 hst, the number of leaves 90 hst and the root volume of 108 hst. The application of ZPT Rootone F gives a markedly different result against the parameters of plant height of 30 hst, the number of saplings 105 hst and the root volume of 108 hst.

Keywords: *Hot Water Treatment, Rootone F, Budset*