

THE EFFECT OF ADDITION OF PGR BAP (6-Benzyl Amino Purine) TO SPEED GROWTH VARIETY OF SUGARCANE SEEDS BULULAWANG

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ABSTRACT

Sugarcane is an important commodity for Indonesia because it has high strategic and economic value as a raw material for making sugar. To meet the demand for sugar that continues to increase every year. According to the Central Bureau of Statistics of Jember Regency (2017), the total gross regional domestic product (GDP) based on agriculture, forestry and fisheries business fields was 17,831.93 billion rupiah in 2014-2016, the area of sugarcane land was 9,516.96 hectares with a product yield of 6,251 135 ,37 quintals where every year the area of sugar cane increases but the product yield does not increase due to the lack of availability of sugar cane seeds. One type of sugarcane variety that is often used by sugarcane farmers is the Bululawang variety of sugar cane, the Bululawang variety has advantages in the field of sugarcane production and the resulting crystal production. Sugarcane Bululawang variety has agronomic characteristics such as production potential with sugarcane yield of 94.3 tons/ha, yield of 7.51%, and sugar crystals 6.90 tons/ha. This plant can grow optimally on sandy loam soil types, sufficient irrigation, and good drainage (Saragih, 2004). The study used a non-factorial randomized block design. The factor used is the Effect of Addition of PGR BAP (6-Benzyl Amino Purine) with the concentrations used are 0 ppm, 20 ppm, 40 ppm, 60 ppm and 80 ppm. The data in this study were analyzed using the F-test at 5% and 1% levels and if the results were significantly different, they would be further tested using BNT. In this study, the results showed a very significant effect on the parameters of plant height and number of tillers with the addition of PGR BAP with a concentration of 80 ppm, as well as an insignificant effect on the parameters of stem diameter, and number of leaves with a concentration of PGR BAP 80 ppm.

Keywords : Sugarcane, Bululawang, PGR BAP.