

Application of Forchlorfenuron (CPPU) on the Growth of Porang

(Amorphophallus oncophyllus)

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ABSTRACT

Porang (Amorphophallus oncophyllus) is a source of glucomannan. The local production of porang can not fulfil the massive needs for glucomannan in Indonesia. This case caused by low production of porang as a impact of limited porang seeds. So far, the fulfillment of porang seedling sources has been dominated by the bulbil and tubers, while porang generative seeds are less popular as a source of seedling. This study aims to examine the effect of CPPU on the growth of porang seedlings. This research was conducted from August to November 2022 at the State Polytechnic of Jember Net house. This study used a completely randomized design with 3 CPPU concentration levels (0 ppm, 5 ppm, and 10 ppm). The Observed Parameters included plant height, canopy diameter, stem diameter, root length, crown fresh weight, root fresh weight, crown dry weight, and root dry weight. Data analysis using ANOVA, and then continued with LSD test at 1% level as the advanced test. The results showed that the use of CPPU concentrations of 5 ppm and 10 ppm significantly differed for all observed parameters (plant height, root length, shoot fresh weight, root fresh weight, shoot dry weight, and root dry weight).

5 ppm concentration of CPPU significantly showed the highest results for all observation parameters, although the parameters of plant height and fresh weight of shoots between concentrations of 5 ppm and 10 ppm showed no significant different results.

Keywords : CPPU, Forchlorfenuron, Porang, Porang seeds