

Gibberellins Acid Application (GA3) And Root Laying Against Growth And Seed Production of Rice (Oryza sativa L.) Situ Bagendit Variety. Gibberellins Acid Application (GA3) And Root Laying Against Growth And Seed Production of Rice (Oryza sativa L.) Situ Bagendit Variety

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ABSTRACT

Application of Gibberellin c (GA3) and laying of roots is one effort that can be used to increase rice production. This study aims to stimulate growth in the vegetative and generative phases of plants. This research was conducted from August to November 2022 in Triwungan Village, using a Factorial Randomized Block Design (RBD) with 2 factors and 4 replications. The first factor was the Gibberellin GA3 treatment (0; 200; 250; 300 ppm). The second factor is the laying of vertical and horizontal roots. The results showed that Gibberellin Acid (GA3) at a concentration of 250 ppm had a significant to very significant effect on the percentage of empty grain, panicle length, number of grain per panicle, number of full grain per panicle, weight of 1000 grains and had no significant difference in production per hectare. The second factor showed that the treatment of horizontal root placement had a significant effect on the number of tillers (2-4 WAP), and was not significantly different on plant height, number of tillers (4-8 WAP), number of productive tillers, production per hectare. The best concentration was 250 ppm with a yield of 12.83 grains on the parameter percentage of empty grain, 20.625 cm on panicle length, 70.04 grains on grain per panicle, 57.21 grains on grain size per panicle, 25.99 grams on weight 1000

Keyword: GA3, root position, seed, Oryza sativa L.