

RESPONSE OF GROWTH OF GROUND WATER SPINACH (*Ipomoea reptans* Poir) ON UREA FERTILIZER DOSAGE

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ABSTRACT

Ground water spinach is a vegetable crop that has a high nutritional content and a commodity that has good prospects and opportunities if it is developed. To optimally increase the growth of water spinach plants, applying Urea fertilizer is an effort to get an optimal response to the growth of water spinach plants. The purpose of this study was to determine the growth response of ground water spinach to the use of the right dose of Urea fertilizer. The experimental method used was a single factor randomized design (CRD), consisting of 4 levels, namely Urea 0 g, 0.5 g, 0.7 g and 0.9 g/plant and repeated 5 times. This research was conducted from June to July 2023 at the Bendungan, Wedomartani, Ngemplak, Sleman, Special Region of Yogyakarta. The altitude is ± 150 meters above sea level. The data obtained were analyzed using analysis of variance (Anova) at the 5% level. To determine whether there was a significant difference between treatments, the Duncan's Multiple Range Test (DMRT) was performed at the 5% level. Based on the results of the study, the use of Urea fertilizer at a dose of 0.7 grams/plant gave the best results in increasing the growth of ground water spinach.

Keywords : *Ground water spinach, Dosage, Urea*