

Efficacy of Atrazin and Topramezon Herbicide on Weed Control and Yield of Sweet Corn

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ABSTRACT

Efforts to increase sweet corn production are by controlling pests found in sweet corn cultivation land. The research aims to determine the best dose of herbicides containing the active ingredients atrazine, topramezone and their mixture to control weeds and their effect on sweet corn crop yields. The research was conducted in March-May 2023 in Wedomartani. Using a complete randomized block design method with one factor with 10 treatments, the treatments consisted of atrazine 1.5 kg b.a/ha, atrazine 2 kg b.a/ha, topramezone 0.025 kg b.a/ha, topramezone 0.03 kg b.a/ha, atrazine 1, 5 kg b.a/ha+topramezon 0.025 kg b.a/ha, atrazine 1.5 kg b.a/ha+topramezon 0.03 kg b.a/ha, atrazine 2 kg b.a/ha+topramezon 0.025 kg b.a/ha, atrazine 2 kg b.a/ ha+topramezon 0.03 kg b.a/ha, without weeding and weeding 2 WAP, 4 WAP and 6 WAP. The observation results were analyzed using analysis of variance at the 5% level and continued with the least significant difference test at the 5% level. The research results showed that 2 kg b.a/ha and topramezon 0.03 kg b.a/ha gave the best results in weed control efficiency and there was no poisoning in sweet corn plants. A mixed dose of atrazine herbicides of 1.5 kg b.a/ha and topramezon 0.03 kg b.a/ha gave the same results as weeding 2 WAP, 4 WAP, and 6 WAP on the length of husked cobs, the length of cobs without husks, the weight of husked cobs per plant, weight of cobs without husks per plant, weight of husked cobs per yield plot, weight of husked cobs per hectare, and sweetness level.

Keywords: Sweet Corn, Dose, Atrazin, Topramezon, Weeds