THE EFFECT OF OXYFLUORPHENE AND ATRAZINE HERBICIDES ON WEED CONTROL AND YIELD OF CHRYSANTHEUM FLOWER *(Dendranthema grandiflora* Tzvelev)

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ABSTRACT

Chrysanthemum belongs to the Asteraceae family and the genus Chrysanthemum. Chrysanthemum has the advantage of having beautiful colors and shapes. The growth and development of chrysanthemums cannot be separated from the presence of plant pests, one of which is weeds. This research was conducted at P4S Mitra Veteran Mandiri located in Bandungan which was carried out from April to July 2024 which aimed to determine the effect of the application of oxyfluorfen and atrazine herbicides on weed control and chrysanthemum flower yields. This study use a complete randomized block design (RAKL) method consisting of 10 treatments and 3 repetitions. The treatment level of this study is by combining herbicides with variations in doses of Oxyfluorfen 0.24 kg a.i/ha, Oxyfluorfen 0.36 kg a.i/ha, Oxyfluorfen 0.48 kg a.i/ha, Atrazine 1.8 kg a.i/ha, Atrazine 2.4 kg a.i/ha, and Atrazine 3.0 kg a.i,ha. The data obtained were analyzed using analysis of variance at the 5% level followed by the Scott Knott test at the 5% level. The results showed that the application of a combination of Oxyfluorfen and Atrazine herbicides had an effect on weed control, but had no effect on the quality of chrysanthemum plants.

Keywords: Chrysanthemums, weeds, herbicide oxyfluorfen, atrazine