

Influence of Biological and Chemical Fertilizers on Quantitative Characteristics of Sweet Wormwood

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Abstract : This research aimed at considering biological fertilizer effect and chemical fertilizer on the quantitative characteristics of Sweet wormwood (*Artemisia annua* L.), an experiment was carried out in factorial design in completely randomized design with 4 replications in an experimental greenhouse which was located in Tehran. Experimental treatment involved chemical fertilizers (Nitrogen, Phosphorus) in 4 levels and biological fertilizers in 4 levels (control, Nitroxin, Bio-phosphorus and Vermicompost). Results showed that using biological fertilizers and increasing different levels of chemical fertilizers (N, P) had significant effects on all the characteristics. Considering means comparison showed that biological fertilizers lead to significant enhancement on all the characteristics and among biological fertilizers, Vermicompost treatment has the most effect. Considering means comparison tables of different levels of chemical fertilizer have been found that (N80P80) had the most increase on characteristics.

Keywords : *Artemisia annua* L, bio-fertilizer, chemical fertilizer, vermicompost

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