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EFFECT OF DIFFERENT SOIL FERTILIZERS ON QUALITATIVE AND QUANTITATIVE YIELD OF MARSHMALLOW AS A MEDICINAL PLANT

S. Khorramdel¹, P. Rezvani Moghaddam¹, H. Azizi¹, J. Shabahang³, M. Seyedi³, Z. Rostami^{2,*}

¹ *College of Agriculture, Ferdowsi University of Mashhad*

² *College of Science, Ferdowsi University of Mashhad*

E-mail:Z_rostami1990@yahoo.com

Marshmallow is a traditional medicinal plant that use as a treatment for the irritation of mucous membranes, including use as a gargle for mouth and throat ulcers, and gastric ulcers. In order to evaluate the biological, seed, flower and mucilage yield of marshmallow as a medicinal plant affected by chemical and organic fertilizers, a field experiment was performed as based on a randomized complete block design with three replications at Agricultural Research Station, College of Agriculture, Ferdowsi University of Mashhad, Iran during growing season of 2012-2013. Treatments were cow manure, urban compost, chemical fertilizer (N, P and K) and control. The results showed that the effect of different fertilizers was significant ($p \leq 0.01$) on biological, seed, flower and mucilage yield of marshmallow. The highest flower and seed yield were observed in chemical fertilizer with 122.62 and 72.78 g.m^{-2} and these lowest were in control with 31.11 and 20.69 g.m^{-2} , respectively. The maximum and the minimum mucilage yield were recorded in cow manure and control with 82.69 and 4.59 g.m^{-2} , respectively.

References

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