

Evaluation of humic acid and complete fertilizer on the yield and growth characteristics of Garden cress (*Lepidum Sativum* L).

Abstract

In order to investigate humic acid and complete fertilizer consuming time, on growth and yield characteristics of the *Lepidum sativum*, an experiment was performed in a randomized complete design with three replications in Zabol sistan and Balochistan province, Iran, in year 2013-2014. The treatments include the use of and spray at 4 and 6 true leaves stages organic fertilizer humic acid in 3 levels include: Without humic acid, also a complete fertilizer were used in 4 levels include: Without applying, and spray at planting date, 4 and 6 true leaf stages. The results showed that the fertilizer application increased plant yield. Between two types spraying, the maximum seed inflation, Dry weight, and Carotenoids obtained by using of complete fertilizer and the maximum height was obtained by sprayed with humic acid. According the results, The optimal growth and performance from complete fertilizer and humic acid application observed by spraying at 4 leaf growth stage.

Keywords: humic acid, complete fertilizer, performance, Mucilage and *Lepidum sativum*.



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