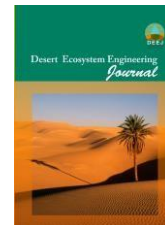




University of Kashan

Desert Ecosystem Engineering Journal

Journal homepage: <http://deej.kashanu.ac.ir>

The effect of soil properties on the growth of *Atriplex canescens* (Case study: desertification designs of Omrani Gharbi of Gonabad city and Chah Goji of Mah'velat city)

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Received: Sep/13/2015

Accepted: Nov/6/2015

Abstract

One of the methods of biological sand dune stabilization and reclamation of desert, Planting resistant species in areas of bare and covered with dry conditions. One of the plants used for the purpose of is *Atriplex canescens*. Considering that the successful establishment of plants in arid regions is a prerequisite for the success of the restoration area and since the medium first is where the young seedlings in the field of natural encounters, Therefore, the effect of soil factors on the establishment of *Atriplex canescens* research in in two planted areas with *Atriplex* in Omrani Gharbi of Gonabad city and Chah Goji of Mah'velat city. Data Measurements of vegetation(Crown diameter, canopy volume, production&...) and soil parameters (EC ,pH , Nitrogen, carbon, texture &...) in each region was evaluated by Minitab software with two-sample t-test .The results of this study showing, soil parameters, including increasing soil Saturation percentage, reducing soil reaction and increase the amount of carbon and nitrogen in furrow cultivation and low electrical conductivity in the hole is filled with sediments and fine-grained texture in two types of cultivation can improve the growth of *Atriplex*. As well as soil saintly does not effect on the viability of this plant.

Keywords: Seedling establishment, desertification designs, *Atriplex canescens*, Omrani, Chah Gogi.

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