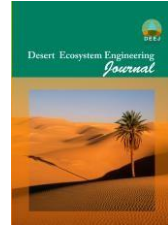




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Impact of soil, wastewater and sewage sludge on growth characteristics of *Haloxylon pp* and *Nitraria schoberi* plant

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Abstract

The aim of this study is evaluation the effect of soil, sludge and wastewater on growth characteristics (height, number of leaves and fresh weight) of and plant. For this purpose, 3 sludge treatment, 2 types of soil and 4 levels of irrigation and SPSS 18 were used. The results showed that in all three characteristics of plant growth, increasing height in crop soil is more than the Sejzy soil. In the *Haloxylon pp* plant, with increasing levels of waste water and sludge, reduced height. And in plant varies according to soil type. Some of branches in the *Haloxylon pp* plant by increasing sewage sludge levels is decreasing and it shows different effect in different wastewater levels. But in the *Nitraria schoberi* plant different wastewater levels in both of soil type hadn't significant impact. Increase sludge levels in crop soil; increase the number of branches and Sjzy soil showed an insignificant effect. Effect of different sludge on fresh weight in *Haloxylon pp* plant is decreasing and different effect in different wastewater levels. But in the *Nitraria schoberi* plant, effluent impact is not significant. In the Sejzy soil, increasing of sludge levels due to decreasing of fresh water and in crop soil is opposite.

Keywords: Exotic water, *Haloxylon pp* plant, *Nitraria schoberi* plant and Greenhouse study.

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