

عنوان مقاله:

The Effect of wastewater Sirjan golgohar industrial on the characteristics of cultivated soils in several species of pasture trees

محل انتشار:

مجله بین المللی تحقیقات پیشرفته زیست شناختی و زیست پزشکی، دوره 7، شماره 1 (سال: 1398)

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خلاصه مقاله:

Collection and reuse of wastewater and sewage in agriculture, natural resources and green environment is one way to conserve water resources and environmental. The aim of this study were to investigate the effects of wastewater Sirjan golgohar industrial on the characteristics of cultivated soils in several species of pasture trees. This study was performed at the Sirjan city which is located in southwest of kerman province (1766 meters above the sea level, 29° 27 N latitude and 55° 40 E longitude, and 162 mm annual rainfall). This experiment was conducted a completely randomized design block testing in split factorial with 5 treatment and 3 replicated. In this study, we used different ratios of water and wastewater including control (normal water), 25% wastewater + 75% water, 50% water + 50% wastewater, 75% wastewater + 25% water and wastewater of sirjan golgohar industrial. These treatment were used for irrigation of several species of pasture trees (*Pestasia atlantica*, *Amygdalus scoparia*, *Amygdalus elaeagnifolia* and *Acer monspessulanum*). Data were analyzed by ANOVA using general linear model procedure of SPSS software. Significance between means was tested using Duncan Multiple Range Test. A probability value of $P \leq 0.05$ indicated that the difference was statistically significant. Results showed that the difference between mean treatments in the study was significant ($P < 0.05$). Comparison of heavy metal concentrations in soil before and after treatment showed that the using of wastewater sirjan golgohar industrial were increased heavy metals in soils. Between treatments in terms of E_{Ce}, SAR and pH was observed difference significantly, the amount of E_{Ce}, SAR was highest and lowest in control and wastewater treatments respectively. With the increasing of waste, the amount of organic materials have also increased, the treatment with wastewater have the largest amount of organic matter. In generally, we can conclude that the using of wastewater treatments due to decrease salting and increase organic matter than to control treatments can improve the soil for the plants

کلمات کلیدی:

Wastewater, Sirjan golgohar industrial, Cultivated soil, Pasture trees

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