Abstract

The efficiency of grazing rangeland by domestic animal had a direct and indirect relationship with changes in soil biological properties and increased the soil microorganism and its biomass. On the other hand, after the different grazing rangeland intensities on soil microbial Community however, the chemical and physical characteristics of soil and also plant Dovers were changed that could cause to change in soil particulars and the grazing rangeland at intensities changed population of soil microorganism. The present study was conducted to measure and determine the relationship of chemical and physical characteristics of soil with microorganism population (fungi) under different grazing intensities. This study was conducted in international lagoon of Haman of Saberi Haman. Further in this research for gathering data and reliable statistical results, 30 samples were measured. Soil samples were collected from 0 t0 30 cm depth in order to investigate effect of three level of grazing (gossamer, medium, extensive) on soil micro-organisms population in triplicate. Data were analyzed by using SPSS software and Duncan test was used to compare means of data in significant at level of 95%. The results show that grazing intensify increased Clay%, Silt%, pH and reduced Sand%, Particle density, Phosphor (P), Potassium (K). Results showed that surface and sub-surface fungi population reducing tendency with intensifying in grazing. Micro-organism activities were decreased when biomass and organic matter reduced in grazed soil on the other hand cattle constant crossing through the path will compressed soil, ventilation will reduce and plant cover will and finally will lead to decreasing in micro-organisms activities and population.

Key word: soil Chemical and Physical Characteristics, soil Microbial community, LovestockGrazing, Soil Biological Properties

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The Relationship between Soil Physico-Chemical Properties and Microbical Community (Fungi) at Different Grazing Intensities in Grazing Lands of Hamoon Wetland

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