

ENVIRONMENTAL SENSITIVITY OF DESERT SOIL TO EROSION IN SOUTHERN AL-QADISIYAH LAKE USING GIS.

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ABSTRACT

Characterization of soil Sensitivity to erosion in desert ecosystem is very important to conserving fragile ecosystems and planning management and protect ecosystem from degradation . desert ecosystem degradation terms refer to soil erosion, mass movement and basin sedimentation.

The study area located in the southern part of Al- Qadisiyah lake (109.15 ha) at latitude from 34°00N to 34°30 N and longitude from 42°00E to 42°20 E. A number of 10 soil site were studied. The soil laboratory analyses were: soil texture, Calcium carbonate content, and average of organic matter content was 0.5%) .The results showed That area of study were classified into four main site varied to soil Sensitivity to erosion which are classified to: law sensitive (12.13%), moderate sensitive (26.90%), high sensitive (39.76%),and very high sensitive (21.21%)

Key words: Soil erosion, Environmental Sensitivity, Desert soil , Al-Qadisiyah lake.