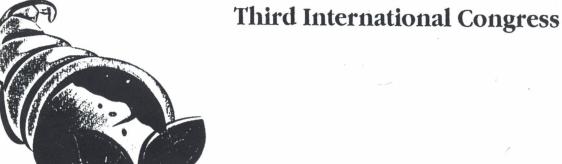
EUROPEAN SOCIETY for SOIL CONSERVATION



## ABSTRACTS BOOK



Man and Soil at the Third Millennium

Museo de las Ciencias Príncipe Felipe

28 March-1 April, 2000 Valencia (Spain)

Integrated soil degradation .

SP-PP-00179

2000

CPOTSQ-31255-1

## Integrated soil degradation analysis of Tierra de Barros Region (Badajoz, Spain)

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This study assesses the soil degradation in Tierra de Barros region (Badajoz province, Spain (280.900 ha). The study emphasizes on the soil susceptibility to sealing and crusting, compactation and soil loss by water erosion.

The rate of degradation was based in experimental physical, chemical and geological indexes, and the spatial distribution of the degradation was defined by mean of geographic information systems (GIS).

Results indicate that the most soils have high susceptibility to degradation by sealing and crusting (166.815 ha). The erosionability established by differents parameters and physical indexes shows a high erosion susceptibility for most soil units.

The use of the GIS established the usefulness of this mean in the analysis and evaluation of the spatial distribution of the soil degradation processes. Besides, the characterization of soil units and the establishment of sampling points (control points), might allow temporally pursuit on the degradation process evolution.

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