



The El Teularet-Sierra de Enguera Soil Erosion Experimental Station, Eastern Spain.

Artemi Cerdà (1,2)

(1) Instituto Pirenaico de Ecología. Consejo Superior de Investigaciones Científicas. Campus de Aula Dei. Apartado 202. 50080-Zaragoza. Spain

(2) Departament de Geografia. Universitat de Valencia. Blasco Ibáñez, 28, 46010- València. Spain

The Soil Erosion Experimental Station of the El Teularet-Serra de Enguera is located in Eastern Spain. The station is devoted to study the soil water erosion processes under rain-fed agriculture fields and the rangelands. Agriculture is the main source of sediments on the mountainous areas of Spain due to the current management. The experimental station of the El Teularet-Sierra de Enguera is composed of a meteorological station with tipping-bucket raingauges (0.2 mm), and sensors that measure soil and air moisture and temperature, wind direction and speed and the sun radiation connected to a data-logger that record these data every five minutes. The soil erosion measurements are done by means of 13 plots, each of them composed of 5 subplots of 1, 2, 4, 16 and 40-60 m² under different land uses and managements. Two plots are covered by two different types of shrubs: *Quercus coccifera* and *Ulex parviflorus*, respectively. Three plots reproduce the use of herbicides, one is ploughed, and three plots follow conservation practices (oats and beans with no-tillage, with tillage, and with a vegetation cover of weeds). Other plots are covered with straw, chipped branches of olive and with a geotextil developed specifically to control erosion on agricultural fields.