Agropedological characterization of the soils in the region of Djebel El Ouahch, Constantine, Algeria

Lamia KEHAL and M'd El Habib BENDERRADJI
Laboratory of Development and Valorisation of Phyto-Genetics Resources, Department of Biology and Ecology, University of Frères Mentouri Constantine, Algeria
Corresponding author: jhony_braham@live.fr

Original submitted in on 10th October 2017. Published online at www.m.elewa.org on 30th November 2017

ABSTRACT
The region of Djebel El Ouahch is characterized by topography very rough, marked juxtaposition high plains, hills, depressions and sharp breaks of slopes, thus yielding a heterogeneous Site. The physicochemical characterization of three soil classes representing the region of Djebel El Ouahch (three depths 0-40 cm and 40-80 cm and 80-120 cm) allowed to put in evidence the domination of the clay fraction in vertisols and soil calcimagnesic while are the sand and silt that dominate the soil isohumic. In all three types of soils mentioned above the organic matter present low levels of. The capacity of cation exchange is highly related at the mineral fraction and so those are clays who determining the amount of bases exchangeable in soil. The average value of pH (7-7, 4) is the tree type of soil is among the soil neutral to slightly basic. The soil calcimagnesic show the contents of total limestone high compared the vertisols and the soil isohumic. For the majority of the soils studied, contents of Nitrogen and phosphates are relatively important in surface compared in depth.

Keywords: Djebel El Ouahch, Algeria, physicochemical, vertisols, soil calcimagnesic, soil isohumic.