

# **Estimation Of The Wischmeier Erosivity Index In The Experimental Microbasins Of Wadi Mina In Northern Algeria.**

**Bénina TOUAIBIA, Dieter GOMER, Aidaoui ABDELLAH**

**Abstract:** Erosion in watersheds is a limiting factor for mountainous agriculture in semi-arid areas. In order to calculate the soil losses in auto-subsistence agriculture, the Universal Soil Loss Equation (USLE) is applied only where the erosivity index is estimated during successive two years. Also, a regressive model is searched, able to explain the functional relation between the erosivity index and the runoff. More than 90% of the total variation is explained when this one is expressed by the power model.

**Keywords:** Erosivity index; Wischmeier plots