Abstract

The aim of this work is the measurement of some selected soil parameters and hydraulic conductivity. By the evalution of these data is determined the resolution of selected soil properties on the base of these characteristics and also predisposition to surface runoff and erosion washes away during a certain rain intensity. This paper contain the comparison of the soil infiltration capacity at selected values of soil water saturation. From the rainfall data is determined the size, frequency, distribution and the process of rainfall events, especially the torrential ones.

The conlusion contain the determinantion of rainfall intensity, which exceeded the infiltration capacity with selected values of soil water saturation. On the base of these determinations should be proved, that the study of soil infiltration require only the basic physical parameters, without requirement of soil type. So for the infiltration study are needed only the general soil layer information.

Key words

physical properties of soils, types of soils, hydraulic conductivity, infiltration capacity of soil, infiltration, torrential rainfall