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EVALUATION OF SOME RUNOFF AND PHYSICOCHEMICAL PARAMETERS IN AN ALCALINE STREAM OF SCOTS PINE FOREST

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Abstract

This study contains evaluating runoff and physicochemical parameters data from some different tributaries of Oltu stream and it has been provided by interpreting Pearson correlation analysis. The watersheds dominated by Scots pine (*Pinus sylvestris* L.) In the data set used in the study, runoff (Q), water temperature (WT), pH, electric conductivity (EC), sodium (Na^+), potassium (K^+), calcium (Ca^{2+}) and magnesium (Mg^{2+}), carbonate (CO_3^{2-}), bicarbonate (HCO_3^-), chloride (Cl^-), sulfate (SO_4^{2-}), sodium absorption factor (SAR), and boron (B) concentration results of measurements were present. Correlation analysis were explained to relations between hydrologic and physiochemical parameters. According to the results of the analysis, some strong negative relations between the runoff and some other parameters (electric conductivity, sodium, chloride, sulfate, sodium absorption factor, and boron concentration) were found. The runoff and salinity have been found as hydrochemical parameters working as the key consideration. The physicochemical characterization of Oltu stream might be strongly influenced by the soil-water interaction. Besides, the dilution effect was shown in Oltu stream which has characterized snowmelt-dominated stream.

Keywords: *Runoff and physicochemical parameters, Oltu stream, Dilution effect.*