



Valuation of selected indicators of water quality by extreme rainfall-drain events and by normal hydrological conditions

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The study is aimed at exploring the relationship between the biogeochemical and hydrological parameters describing the natural conditions and the reciprocal interactions between the concentration changes (nitrates, phosphates and suspended solids) in surface waters and discharge dynamics during extreme rainfall-runoff events and during normal hydrologic conditions. The relationship between concentrations and runoffs are explained by the c-q (concentration-discharge) hysteretic loops. There will be presented results proving that extreme rainfall-runoff conditions are great contributor to the total amount of nutrients and sediment loss during the year. Also there will be mentioned the impact of land use type in particular localities, where the research was done. This article is based on results of grant of Ministry of Agriculture QH92298 System of nature near soil and flood protective measurements and its optimalization in process of land consolidation.