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Modeling of runoff conditions in the pasture sites of small catchments

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The aim of the article was modeling the impact of different scenarios of landscape structure on catchment on stream flow and the concentration of nitrate anions. First the SWAT model was calibrated and validated, in the first step for flow rates in the second step for the values of concentration. Subsequently, into calibrated and verified model there were progressively inserted six different scenarios of landscape structure and evaluated their impact on the observed indicators of water quantity and quality. This article is based on results of grant of Ministry of Agriculture QI111C034 Effect of livestock grazing on soil properties, water quality and biodiverzity in the landscape.