



Effect of land use changes on water runoff and nutrients loss from the small catchment

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The aim of this study was to model and assess the impact of human induced land changes on runoff from small catchment in the traditional agricultural locality. The changes in past years and probably also in the future are affected mainly by political and financial conditions in the agricultural sector. The study was carried out at Kopaninský stream catchment in the environment of Bohemian-Moravian Highland in the Czech Republic. This locality was chosen due to the relative closeness to two former regional cities and present agricultural use for traditional plant production. In this small catchment there were simulated various scenarios of changes in land use caused by human activity. Several scenarios were focused on changes in way of agricultural use of the locality, changing the agricultural use to forest and last but not least changes to urbanized landscape and also to industrial use of several plots.

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