

MODELING THE EFFECT OF NATURE-RELATED MEASURES ON THE WATER BALANCE IN THE TRKMANKA BASIN

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The effect of nature-related measures on the water balance was modeled in the Trkmanka basin. The basin is located in the Moravia, south-east region of the Czech Republic. The area is intensively farmed and under the project "Strategy for protection against the negative impacts of floods and erosion phenomena by nature-related measures in the Czech Republic" (www.vodavkrajine.cz) a large number of complex erosion control measures of almost 132 km² were proposed, representing 43% of the total catchment area (*Fig. 1*). These measures are intended to reduce soil erosion and to increase the overall retention of the river basins. The aim of the paper is to quantify the impact of the proposed measures on the selected components of the water balance using the BILAN model. Then compare the effect of these measures with the potential Terežín reservoir.