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## ANALYSIS OF CHANGES IN RUNOFF FOR CZECH REPUBLIC

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One part of the project “Strategy for protection against negative impacts of floods and erosion phenomena by nature-friendly measures in the Czech Republic” was assessment of actual runoff conditions in the Czech Republic by runoff curve number method. Erosion protection and flood protection measures were designed at areas of chosen catchments, where high runoff and low retention were determined. Following from previous experiences, the efficient, economically acceptable and enforceable typified protection measures were designed. Effect of the designed protection was assessed by computation by means of the runoff curve number method at the whole area of the Czech Republic. The differences in runoff between actual state of territory and state with designed protection on territory were analysed. Territory was discretized on catchment area of the 4<sup>th</sup> order. Analyses were made in ArcGIS software.