
STORAGE CAPACITY ASSESSMENT OF WATER RESERVOIR ON CURRENT HYDROLOGIC DATA

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The aim of this paper is to present results of study, which was aimed to evaluate the efficiency of reservoir capacities for updated input data. The study has focused on review of storage capacity, reliability of total reservoir outflow and analysis of flood protection capacity. Storage capacity was made using historical flow time series of maximum length of historical measurements as well as using artificial flow time series. The review of the flood protection capacity was made for the theoretical flood hydrographs derived by the classical method as well as the Method of Conditional Probability. The given objectives is based on the requirement to update the calculations of above mentioned quantities with point of view to extending of length of measured input hydrological data, especially taking into account the 2015 drought and the extreme flood in recent years.