

ABSTRACT

This bachelor thesis is aimed in detail on small water reservoirs, on their distribution and function. Brief history of reservoirs is mentioned as well as their water management and technical solution. The part of the thesis is represented by the assessment of their influence and integration within an environment. In the second part, historical use and potential renovation of former accumulation reservoirs in Šumava Mts., situated in Vydra River basin and used for wood floating in the past, is solved. These water bodies are no more in function but their system could be an effective part of measures within an integrated flood protection and hydrological drought elimination. Geomorphologically suitable relief of Vydra River basin, source area of extreme runoff situations formation, also provides optimum conditions for realization of small retention reservoirs that could, in connection with other measures for headstream areas retention potential enhancement, reduce extreme runoff episodes in future.

Keywords: small water reservoir, accumulation reservoir, retention reservoir, integrated flood protection, hydrological drought, Vydra River basin