

Abstract

This bachelor thesis focuses on baseflow as one of the components contributing to the total outflow, which is determined in hydrogeology for individual basins and other balance areas. In the literature review part, the concept of baseflow itself is defined, including an explanation of the term specific baseflow. It is explained why it is important to determine the baseflow and on what basis it is defined. Most attention is then given to the methods by which the baseflow is determined. Five methods are presented in more detail and several others are then described in less detail. Finally, the review part, through selected studies, focuses on the magnitude of the baseflow in the Czech Republic and the factors that influence it. For the purpose of the practical part of the thesis, a specific area was chosen, namely it was the basin of the Mastník stream. Within this locality, the baseflow was determined by using several selected methods. The results are then compared with each other and also with studies and publications mentioned in the review part, in terms of their outputs for the studied basin. Differences in the results are then analyzed and discussed.

Key words: baseflow, base flow index, methods of determining baseflow, Mastník stream basin