

**Hydrological regime analysis with respect to selected flood events
in the Křemelná river basin**

Abstract

This paper deals with the analysis of runoff regime during three flood events. The hydrological regime evaluations were carried out in four experimental hydrological profiles in the Křemelná river basin in the Šumava Mountains. The variability of runoff regime was evaluated using the data from fieldwork and water-stage gauges. The data of the water-level stage came from the regular measurements from installed water-stage gauges situated on experimental hydrological profiles. The discharge data were regularly manually measured in the streams. The results are presented for each subbasin of the Křemelná river basin. This paper represents a part of the all embracing hydrological research project in the upper headwater part of the Otava river. The main aim of the project is to clarify the retention potential of peat-bog in the area.

Keywords: flood events, runoff variability, experimental profiles, the Křemelná river