Abstract

The object of this thesis is to evaluate influence of groundwater on the period of hydrological drought in the Lužnice river floodplain, focusing on interaction between surface water and groundwater. Floodplain of the Lužnice is unique fluvial ecosystem characterized it’s diversity and natural value. Especially upper stream of Lužnice represents river floodplain river and creates good conditions for water retention. Main first part of this thesis is focused on work with literature about issue interaction between surface water and groundwater in the river floodplain with examples from Czech republic and the world, including the characteristics the groundwater. Work with literature is also focused at characterizing the types of drought, it’s cause and consequences. The second part evaluates the basic characteristics of runoff and hydrological drought on the Lužnice. This analysis is based on statistical evaluation of longtime data series from Pilař and Bechyně stations. Both profiles are compared to identify correlations.