

Submitted diploma thesis deals with an assessment of historical and present anthropogenic loading in the Vydra River basin and with an evaluation of human impact on its runoff regime. Further to the brief characterization of natural conditions, runoff regime in the studied basin is assessed using different statistical methods. Complex evaluation of each anthropogenic impact is supported by concrete case studies. Thesis is completed by the outline of future possible routing with respect to water retention in the Otava River headstream area.