

## **Abstract**

This study focuses on the influence of precipitation on shallow catchments of mineral springs in the special area of Františkovy Lázně. The thesis was made on the basis of the data provided by the company Spa Františkovy Lázně a.s..

The interdependent relations between yield springs, precipitations, atmospheric pressure and the content of free CO<sub>2</sub> were studied. These relations were observed onto six springs – František, Luční, Nový, Solný, Železnatý and Žofie.

The precipitations were compared with the yield of individual springs. The season was proved by three springs (František, Železnatý and Žofie). Retention of the precipitation was determined for springs František, Solný, Železnatý and Žofie.

Considering more than half a year delay, we cannot claim that the precipitations should have a major influence on the dotation of mineral springs.

The downtrend was founded for the free CO<sub>2</sub> in all researched resources. Significant indirect relation was found using the correlation coefficient between atmospheric pressure and free CO<sub>2</sub>.