

Abstract

This bachelor's thesis focuses on the relationship between the mineral strength of the soil and its properties, especially its sorption capacity, grain size, and soil reaction. We ask ourselves whether the mineral strength is a decisive factor for the character of the soil arising from it. We examine the answer to it in the academic literature and through field research, but due to the low robustness of the data, general conclusions cannot be drawn. The first part of the thesis is devoted to the analyses of the obtained knowledge about the influence of the mineral strength of the parent rock on the character of soils. Then we deal with other pedogenic factors that influence the relationship between the mineral strength of the rock and the properties of the soil. In the practical part, we focus on our field research and its evaluation. We compare the results of field measurements with the knowledge obtained from academic literature. We conclude that the degree of influence of the mineral strength of the rock on the soil is not clear-cut and depends very much on other influencing factors.

Key words: soil properties, mineral strength of parent rock, complex soil survey