Česká zemědělská univerzita v Praze
Fakulta agrobiologie, potravinových a přírodních zdrojů

DOKTORSKÝ STUDIJNÍ PROGRAM

NÁVRH TÉMATU/PROPOSAL OF THEME

Studijní program/*Study Program*: **Zemědělská specializace**

Studijní obor/*Branch of Study*: **Využití a ochrana přírodních zdrojů**

Katedra/*Department of*: **vodních zdrojů**

Školitel (včetně titulů), email/*Supervisor*, email: Prof. Ing. Svatopluk Matula, CSc.

Konzultant (včetně titulů)/*Co-supervisor*:

Forma studia/*Form of Study*: **prezenční**

Typ tématu/*Type of Theme:* **Rámcové**

Téma/*Theme:*

Determination of water retention features of soil porous system using new methods

Hypotéza/*Hypothesis*:

An application of evaporation methods in the measurement combined with the correlation methods alloves to find very good data about soil-water retention capability of certain soil porous material.

An application of this method is rather limited by the determination of hydrophysical properties near the full water saturation of the soil layer.

Anotace/Annotation:

Retention behaviours of certain soil profile and their soil layers play a significant role in the case of soil water retention and water management in the whole landscape. There is an importance for an amelioration treatment of any landscape, and in elimination of certain negative results of hydrologic extreme cases like floods or drought. Both, start to be very common in the situation when climatic changes and the reaction of the landscape on it are in the progress like just now. Several new methods have been discovered recently for a determination of retention features of the soil porous media. The evaporation method is one of those and it is relatively quick and simple, being suitable to use for soil water retention curve determination. Testing the accuracy of the method is quite interesting result not being found in literature until now.

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Podpis/*Signature:*