



Confidential

Supervisor's Review of USB RIFCH PhD Thesis

Surname of the PhD student: Francová	Name of supervisor: Jaroslav Vrba
Title of PhD thesis: Macrophyte assemblages in fishponds under different fish farming management	

OVERALL COMMENTARY ON THE PhD THESIS

Structure

The PhD thesis is structured clearly. Both overall framework and outlines are concisely presented in the introduction. Three objectives correspond to particular chapters, each covered by a published paper or submitted manuscript, that are followed by a general discussion.

Content

The student made a comprehensive literature review on the role and diversity of aquatic macrophytes in shallow lakes and wetlands with particular emphasis to fishpond ecosystems and fish farming management. Based on the published review, she explored seasonal and inter-annual macrophyte assemblage dynamics in nursery and main fishponds. For the first time in fishponds, she applied an innovative 3-D survey of submerged macrophytes following the Water Framework Directive and showed significant effects of fish farming management on the macrophyte occurrence. In addition, she studied the vegetation of reed bed and exposed bottom zones in the fishponds studied. Besides fish farming management, changes in land use and climate contributed to both macrophyte diversity and dynamics. Taken together, this survey has proven that the fishponds, despite their hypertrophic status at present, have a good potential for preserving wetland biodiversity in the landscape.

The student is very familiar with aquatic and plant ecology as well as fish farming management. She adopted all necessary methods and applied them in an innovative way.

Language and graphical quality

The thesis is well written in scientific English and matches all standards and requirements.

General comments

Kateřina Francová is an enthusiastic, hardworking, independent, and reliable student. She made a great field survey and demonstrated good statistical, writing, as well as organizational and social skills, and fulfilled all requirements for scientific work.



Fakulta rybnářství
a ochrany vod
Faculty of Fisheries
and Protection
of Waters

Jihočeská univerzita
v Českých Budějovicích
University of South Bohemia
in České Budějovice
Czech Republic

FINAL RECOMMENDATION

- can be recommended for defence of PhD Thesis
- can be recommended with reservations for defence of PhD Thesis
- can not be recommended for defence of PhD Thesis

15 September 2019

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Date and place

Vrba

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surname and signature