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Confidential

Supervisor's Review of USB RIFCH PhD Thesis

Surname of the PhD student: Ing. Antonín Kouba	Name of supervisor: Assoc.Prof. Pavel Kozák, Ph.D.
Title of PhD thesis: Intensification of juvenile crayfish culture	

OVERALL COMMENTARY ON THE PhD THESIS

The overall aim of this thesis was to identify and define factors potentially improving intensive culture of juvenile crayfish.

The specific objectives were focused firstly on intensification of **hatching process** by evaluation of the effect of the cold period duration on the incubation efficiency and hatching period in maternally incubated crayfish eggs and investigation the potential of artificial crayfish egg incubation in semi-recirculating systems with an attempt to reduce the amount of water used as well as the quantity of recommended antifungal chemical agents (formaldehyde and salt). Secondly, the special attention was focused on evaluation of efficiency of some intensification technics in **juvenile crayfish production** such as different water temperatures and management systems, feeding by different forms of decapsulated *Artemia* cysts, and evaluation of high stocking density on frequency of injuries to body appendages in reared juvenile crayfish. A core part of experiments have been done on two European endangered crayfish species *Astacus astacus* and *Austropotamobius pallipes*, therefore the partial works, as well as the whole thesis, are widely applicable, at least in European context, and will surely be referred also in foreign literature in a due course.

The PhD student, Antonín Kouba, is skilled, well qualified and productive researcher. Tonda is not only very intelligent but also handy, skilful, friendly and modest, which is not a frequent combination in common students. He worked on his topic independently from the planning of methodology to the evaluating and compilation of publication. Although he was very busy doing his thesis, he was also helpful to me, to other students and the whole laboratory when necessary. As a deputy head of laboratory he has been helping me in many scientific and administration work, as well. Based on information mentioned above, I can highly recommend his thesis for defence.

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

26.4.2011 Vodňany

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Date and place

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surname and signature