

PROCEEDINGS OF THE 7TH
AQUATIC BIODIVERSITY INTERNATIONAL CONFERENCE



SIBIU, 2019

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The Proceedings of the 7th Aquatic Biodiversity International Conference 2019, aim to communicate the extended abstracts of the 6th Aquatic Biodiversity International Conference 2019, Sibiu/Transylvania/Romania/European Union, participants' recent advances in the aquatic biodiversity: assessment, monitoring, conservation and management, aquatic habitats – biodiversity interrelations, aquatic biodiversity and alien species, aquatic microbial ecology, human impact and the aquatic biodiversity, research methods in aquatic ecology/biodiversity, wetlands biodiversity, food web interactions and aquatic productivity, global changes.

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**EFFECTS OF REPLACING SOYBEAN MEAL
WITH FERMENTED WATER HYACINTH LEAF MEAL
IN DIETS ON GROWTH FOR JUVENILE RIVER CARP,
LEPTOBARBUS HOEVENI**



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Abstract

A feeding trial was conducted to evaluate the effects of replacing soybean meal (SBM) with fermented water hyacinth leaf meal (FWHM) in diets on growth for juvenile river carp (*Leptobarbus hoeveni*).

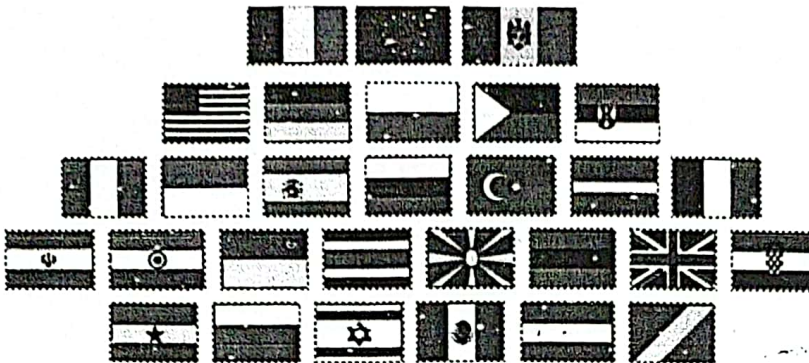
Five isonitrogenous diets (35% crude protein) were formulated with 0 (control), 25, 50, 75 and 100 g kg⁻¹ FWHM replacing graded levels of SBM, respectively. Each diet was randomly assigned to triplicate groups of 25 fish (initial average weight 6.1± 0.8 g) per net cages installed in earthen pond for 56 days. Fish were fed three times daily at a feeding allowance of 5% of their body weight during the entire experimental period.

There were no significant differences in growth performance and survival rate of juvenile river carp ($P > 0.05$) fed the diets with different replacement level of SBM by FWHM. However, significant difference ($P < 0.05$) were observed in feed efficiency and protein retention of fish fed the diets with 75% replacement level of SBM by FWHM compared with other treatments.

The results in the present study indicate that up to 75% of SBM protein can be replaced by FWHM protein without causing reduction in growth performance and feed utilization of juvenile river carp (*Leptobarbus hoeveni*).

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CERTIFICATE OF ATTENDANCE

We hereby certify that

Mr.

Indra Suharman

Has successfully attended

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Dr. Angela BANADUC
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