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	AN EVALUATION OF TRADITIONAL COCONUT OIL AS AN ALTERNATIVE LIPID INGREDIENT IN THE DIET ON THE GROWTH AND CARCASS COMPOSITION OF SPINY LOBSTER, *Panulirus ornatus*
15:40	**Tran Thi Nang Thu, Tran Anh Tuyet, Nguyen Tu Tuan Anh, Tran Thi Thap Hieu, Tran Quang Hung** EFFECT OF FISH MEAL REPLACED BY SOYBEAN MEAL ON GROWTH PERFORMANCE AND FEED UTILIZATION OF BLACK CARP (*Mylopharyngodon piceus*)
16:00	**Noordiyana M.N, Zufar S.B., Sharifah Rahmah, Emilia S.N. and Abol- Munafi A.B** FISH MEAL REPLACEMENT IN DIETS OF JUVENILE *Tor tambroides* WITH AND WITHOUT ORAL ADMINISTRATION OF COMMERCIAL PROBIOTICS
16:20	**Intanai, I., ChaimongKol, S., S, Sareena, S. B. and Karmila, A.** EFFECTS OF WATER AMMONIA ON GROWTH, OXYGEN CONSUMPTION, AMMONIA EXCRETION AND OSMOLALITY OF POSTLARVAE *Macrobrachium rosenbergii* (de Man)
16:40	**Norfazreena Mohd Faudzi, Annita Yong Seok Kian, Rossita Shapawi,Shigeharu Senoo, Amal Biswas and Kenji Takii** GROWTH PERFORMANCE, FEED UTILIZATION AND APPARENT DIGESTIBILITY OF HYBRID GROUPER JUVENILES, BROWN-MARBLED GROUPER *Epinephelus fuscoguttatus* X GIANT GROUPER *E. lanceolatus* FED FORMULATED FEED PARTIALLY REPLACE WITH SOY PROTEIN CONCENTRATE
17:00	**Montira Leelakriangsak, Chokchai Lueangthuwapranit, Nguyen Van Duy** THE POTENTIAL USE OF *Lactobacillus plantarum* T13 FOR PROBIOTIC SHRIMP FEED AND FEED STORAGE CONDITIONS
17:20	**Indra Suharman, Adelina, Nur El Fajri, and Ferdhi Aulio Rahmad** EFFECTS OF FERMENTED WATER HYACINTH (*Eichhornia crassipes*) LEAF PROTEIN AS SOYBEAN PROTEIN SUBSTITUTION IN RIVER CARP (*Leptobarbus hoevenii*) FINGERLING DIET

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EFFECTS OF FERMENTED WATER HYACINTH (*Eichhornia crassipes*) LEAF PROTEIN AS SOYBEAN PROTEIN SUBSTITUTION IN RIVER CARP (*Leptobarbus hoevenii*) FINGERLING DIET

Indra Suharman*, Adelina, Nur El Fajri, and Ferdhi Aulio Rahmad
Faculty of Fisheries and Marine Science, University of Riau
Kampus Bina Widya Km. 12,5 Simpangbaru, Pekanbaru-Riau 28293, INDONESIA
indra70s@yahoo.com

With increasing price of soybean meal (SBM), great efforts are made in seeking alternative protein for fish feed. Therefore, a 56 day feeding trial was conducted to investigate the effects of fermented water hyacinth leaf (FWHL) protein in diets on the growth performance and feed utilization of river carp, *Leptobarbus hoevenii*, (initial mean weight 7.91 ± 0.56 g). 300 fingerlings of *L. hoevenii* randomly divided into 15 net cages installed in earthen pond were fed five different experimental 30% isonitrogenous diets (D), a control (0% FWHL) meal and four diets containing different substitution levels of FWHL meal (30%, 40%, 50% and 60%, respectively) in place of SBM as protein source. The results showed that with increasing substitution levels of FWHL meal; weight gain (WG), specific growth rate (SGR), and feed efficiency (FE) decreased gradually. The results also clearly showed that fish fed with diet 30% FWHL meal substitution level perform the best results among four different eperimental diets (Table 1). Based on the results of present study, 30% substitution level of FWHL meal as SBM substitution is recommended in a practical diet of *L. hoevenii* fingerling for good growth performance.

Tabel 1. Growth response and feed utilization of river carp fed diets containing various substitution levels of protein of soybean meal by fermented water hyacinth leaf meal

Parameters[1]	% Substitution of dietary protein of soybean meal by fermented water hyacinth leaf meal				
	0 (D1)	30 (D2)	40 (D3)	50 (D4)	60 (D5)
Initial mean weight (g)	7.47±0.74	8.10±0.82	7.87±015	8.10±0.89	8.03±021
Final mean weight (g)	10.10±0.70	11.47±0.85	10.9±0.12	11.10±0.92	10.60±0.26
Mean weight gain (g)	2.63±0.06	3.37±0.15	3.07±0.06	3.00±0.10	2.57±0.06
SGR (%/day)	0.54±0.05	0.62±0.06	0.59±0.02	0.57±0.05	0.50±0.00
FE (%)	11.54±1.11	13.59±1.15	12.57±0.29	12.25±1.24	10.47±0.30
Survival (%)	100	98.33	100	100	100

[1] SGR = specific growth rate; FE = feed efficiency

Key word *(s): diets, fermented water hyacinth leaf, growth performance, Leptobarbus hoevenii, soybean meal*

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CERTIFICATE OF PARTICIPATION

Presented to

Indra Suharman

Riau University
Indonesia

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The Chair of the IFS 2016
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