LAMPIRAN

1. Instrumentasi



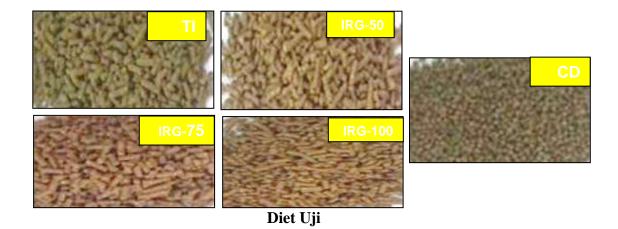
Ikan Baung (Hemibagrus nemurus)



Ikan rucah bergaram



Tepung ikan rucah bergaram





Keramba



Respon terhadap pakan

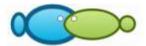


Penimbangan

2. Personalia tenaga pelaksana dan kualifikasinya

No	Pelaksana	Kualifikasi
1.	Ghazali, S.Pi	S-1
2.	Sadarlis, S.Pi	S-1

3. Artikel Ilmiah



Evaluation of salted trash fish as a protein source replacing fishmeal in the diet for river catfish (Hemibagrus nemurus)

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Abstract. The research was conducted to evaluate the effect of substitution of hishmeal by salted trash fish in the diet on growth, freed efficiency, nutrient utilization and body composition of river catrish. (Hamilagous nemanus). Five formulated data were prepared to contain 38% protein and 3.25 local gridgestible energy (DE) as an optimum dietary protein and energy for the fish. One diet was control derivided or the control data which contained fishmeal without salted trash fish (FM), and other diets were trash fish diets which fishmeal was reduced and proportionally replaced by salted trash fish 25% (STP-25), 50% (STP-35), 75% (STP-75) and 100% (STP-100). Catrish fingerings, 8.5 g in size obtained from local fish historieny were stocked into triplicate 2 × 2 × 1.5 m floating nat cages at a density of 100 fish cage*, and fed experimental diets at satisfice, twice a day for 8 weeks. Results indicated that the salted trash fish cliets were characterized by higher salt, ash and fiber but similar in amino acid profiles as well as water stability as compared to control det. The survival rate was reached 100% in all treatments. Inclusion of salted trash fish at a level 25% in the diet increased weight gain as compared to control det; and inclusion up to 50% did not affect weight gain, specific growth rate, food consumption, food efficiency, orderin efficiency and protein retention. Salted trash fish diets did not affect fish body motion and salt, but increased bedy motion for except enable from the fish diet of the fish fed salted trash fish diets were similar to that fish fed control det. It was concluded that the salted trash fish could be included in the river caffish diet up to 50% as replacement for 50% fishmeal through register retention and proximate body composition of river caffish.

Key Weeds: fishmeal diet, trash fish diet, river caffish, growth performance, fish body composition:

Introduction. River catfish (Hemibagrus nemurus Valenciennes, 1840) is a popular and demanded river catrish species for both fresh and smoked fish consumption in Riau Province, Indonesia. Naturally, the fish was cought from the rivers, lakes and resourvoir, however, its population in the wild was decreasing due to overfishing and environmental demage, therefore, the next supply of the fish would depend on aquaculture production. The culture of the river catrish now has been developed; artificial breeding and aquaculture techniques have been available; however, the fish was required relative high dietary, protein (approximately 38-47%) for its originum growth and high flesh quality. dietary protein (approximately 38-42%) for its optimum growth and high flesh quality (Khan et al 1993; Hasan et al 1999; Hasan et al 2013).

(Khan et al 1993; Hasan et al 1999; Hasan et al 2013).

Fishmeal (FM) is the most preferable and digestable protein source in the diet for most farmed fish including river catfish due to its amino acid, fatty acid, energy, vitamins and minerals balance (Tacon 1993; Eguia 1998; Khan et al 1993; Hasan et al 1999; 2013; Abdelghany 2003). However, its price is high and its production is limited and scarcely available, import dependent, hence it is not economical for small scale feed manufacturer. Since the demand for FM continues to grow, while its production is expected to remain constant (New & Wijkstrom 2002; Borgeson et al 2006), more attention must be paid to utilizing local material as an alternative protein source replacing FM in the fish diet.

Trash fish from marine by-ratch is a notential protein source as a replacement for

Trash fish from marine by-catch is a potential protein source as a replacement for conventional FM in the fish diet due to its high protein content, averaging 66.1% dry

BUKU REFERENSI

FEEDING AND PROCESSING TECHNOLOGY OF RIVER CATFISH (Hemibagrus nemurus)

Editor BUSTARI HASAN DIAN IRIANI

FAKULTAS PERIKANAN DAN ILMU KELAUTAN UNIVERSITAS RIAU TAHUN 2016