

ABSTRACT

THE USE OF INDIGOFERA *Indigofera zollingeriana* (Miquel, 1855) LEAF MEAL AS FEED INGREDIENTS FOR GROWTH OF HOVEN'S CARP *Leptobarbus hoevenii* (Bleeker, 1851) FRY

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Indigofera leaf meal can be used as an alternative raw material and has high potential as a source of vegetable protein for hoven's carp fry to reduce the use of imported raw materials. The purpose of this study was to examine the effect of using indigofera leaf meal with different combinations of feed as feed raw materials on growth performance and survival of hoven's carp (*Leptobarbus hoevenii*) fry. This study used a completely randomized design (CRD) with 3 treatments and 3 replications, i.e: control (0% indigofera leaf meal), treatment 1 (50% indigofera leaf meal + 50% commercial feed) and treatment 2 (100% indigofera leaf meal). The data obtained were analyzed by Anova and post hoc by Duncan's test. Based on analysis of variance, the use of *Indigofera zollingeriana* leaf meal had a significant effect ($P < 0.05$) on absolute weight growth, absolute length, specific growth rate, and feed conversion ratio, while survival rates were not significantly different ($P > 0.05$). The results showed that the increasing proportion of the use of indigofera leaf meal experienced a decrease in growth performance of hoven's carp fry.

Keywords: Hoven's carp fry, *Indigofera zollingeriana* leaf meal, growth.

ABSTRAK

PENGGUNAAN TEPUNG DAUN INDIGOFERA *Indigofera zollingeriana* (Miquel, 1855) SEBAGAI BAHAN BAKU PAKAN PADA PENDEDERAN BENIH IKAN JELAWAT *Leptobarbus hoevenii* (Bleeker, 1851)

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Tepung daun indigofera dapat digunakan sebagai bahan baku alternatif dan berpotensi tinggi sebagai sumber protein nabati benih ikan jelawat untuk mengurangi penggunaan bahan baku impor. Tujuan dari penelitian ini adalah mengkaji pengaruh penggunaan tepung daun indigofera dengan kombinasi pakan yang berbeda sebagai bahan baku pakan terhadap kinerja pertumbuhan dan kelangsungan hidup benih ikan jelawat (*Leptobarbus hoevenii*). Penelitian ini menggunakan rancangan acak lengkap (RAL) dengan 3 perlakuan dan 3 ulangan, yaitu: kontrol (0% tepung daun indigofera), perlakuan 1 (50 % tepung daun indigofera + 50% pakan komersil) dan perlakuan 2 (100 % tepung daun indigofera). Data yang diperoleh dianalisis dengan sidik ragam (Anova) dan diuji lanjut dengan uji Duncan. Berdasarkan analisis sidik ragam penggunaan tepung daun *Indigofera zollingeriana* memberikan pengaruh yang berbeda nyata ($P < 0,05$) terhadap pertumbuhan bobot mutlak, panjang mutlak, laju pertumbuhan spesifik, dan rasio konversi pakan, sedangkan tingkat kelangsungan hidup tidak berbeda nyata ($P > 0,05$). Hasil penelitian menunjukkan bahwa semakin meningkatnya proporsi penggunaan tepung daun indigofera mengalami penurunan kinerja pertumbuhan benih ikan jelawat.

Kata kunci: Benih ikan jelawat, tepung daun *Indigofera zollingeriana*, pertumbuhan.