

**GROWTH, SURVIVAL AND SKIN COLORATION OF *Pangasius sp.* FED WITH
DIET CONTAINING JUTE LEAVES (*Chorchorus olitorius*) AND SWEET
POTATO LEAVES (*Ipomea batatas L.*)**

By

MA. ELIZABETH M. ESMERALDA

An Undergraduate Thesis presented to the College of Fisheries in partial fulfillment of
the requirements for the degree of

BACHELOR OF SCIENCE IN FISHERIES

**Department of Aquaculture
COLLEGE OF FISHERIES
CENTRAL LUZON STATE UNIVERSITY
Science City of Muñoz, Nueva Ecija
Philippines**

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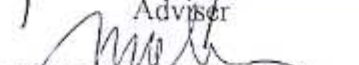
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ABSTRACT

The present study was conducted to determine the effect of jute leaves and sweet potato leaves on the growth, survival and skin coloration of *Pangasius sp.* Nine hundred *Pangasius sp.* fingerlings were randomly distributed in three treatments with three replicates each. The treatments were Treatment 1 = 100% commercial feeds (control), Treatment II = 50% commercial feeds + 50% jute leaves, and Treatment III = 50% commercial feeds + 50% sweet potato leaves. The growth parameters were determined every two weeks of sampling and skin coloration were compared after 60 days of culture period.

Results of the study showed that *Pangasius sp.* fed with commercial feed (Treatment 1) had the highest final weight, gain in weight and specific growth rate while, *Pangasius sp.* fed with 50% commercial feeds + 50% sweet potato leaves (Treatment III) recorded the highest survival rate. However, analysis of variance revealed that final weight, gain in weight, and specific growth rate of *Pangasius sp.* in all treatments were comparable.

Pangasius sp. fingerlings fed with commercial feed (Treatment 1) showed intense black coloration compared to the other treatments. *Pangasius sp.* fingerlings fed with diet containing jute and sweet potato leaves, had greenish coloration on the lateral part of the fish body. Analysis of variance revealed that skin coloration of *Pangasius sp.* fingerlings in Treatment 1 was significantly different ($p < 0.05$) from those *Pangasius sp.* fingerlings in Treatments II and III.

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