

**GROWTH, SURVIVAL AND SKIN COLORATION OF RED TILAPIA (*Oreochromis sp.*)
FRY FED WITH DIET CONTAINING CAROTENOID PIGMENTS FROM JUTE
(*Corchorus olitorius*) LEAVES**

by

GOLDWIN SAGUN BIANAN

An Undergraduate Thesis presented to the faculty of the College of Fisheries in partial fulfilment
of the requirement for the degree of

BACHELOR OF SCIENCE IN FISHERIES

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

2017



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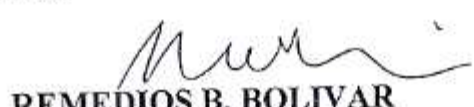
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ACKNOWLEDGEMENTS

The author would like to express his deepest gratitude to the people who guided and helped him to make this piece of work possible and come up to its best outcome.

To his adviser, Prof. Rodora M. Bartolome for her noble intention of sharing her expertise and knowledge to accomplish this study, for her valuable advice and constructive criticisms and most especially, for the kindness and concern she had shown which motivated the author a lot.

To his critic and the College Research Coordinator, Dr. Remedios B. Bolivar for her patience in editing this manuscript and imparting knowledge in technical writing.

To his mentors, namely; Dr. Jose S. Abucay, Ms. Claire Samantha T. Juanico, Dr. Karl Marx A. Quiazon, Prof. Janet O. Saturno, Dr. Ravelina R. Velasco, Dr. Emmanuel M. Vera Cruz and Dr. Apolinario V. Yambot for exposing the author into the field of fisheries, for sharing their expertise and for imparting the knowledge vital to complete this study.

To Mrs. Juliet D. Holasca and Engr. Zaldy P. Bartolome, for the assistance and for the concern they had shown during his thesis conduct.

To the author's family, Mr. Silvestre L. Bianan, Mrs. Anita S. Bianan, Kuya Silver, Kuya Lee and Ate Di-ann for the unconditional love, guidance and everlasting support which served as his inspiration and strength in doing this piece of work;

To his best of friends, Kris Angel and Sunshine for the company, for the laughter and joy even at hard times and for the support.

To the author's second family, the Christian Brotherhood International (CBI) officers and members for their concern, for lifting him up always in times of sadness and hardships, for the

words of encouragement they had given to the author which really motivated him and for being his second family here in CLSU with the love of Lord God.

Ultimately, to Almighty God for the loving guidance and countless blessings He had given to the author that helped him to overcome all the challenges in this whole journey. Glory to God!

GOLDWIN SAGUN BIANAN

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ABSTRACT

The study evaluated the growth, survival and skin coloration of red tilapia (*Oreochromis niloticus* L.) fry fed with diet containing carotenoid pigments from jute leaves (*Corchorus olitorius*). The treatments evaluated were: Treatment I – control diet (0% carotenoid extract); Treatment II - diet with 500 mg carotenoid extract from jute leaves; Treatment III - diet with 1000 mg carotenoid extract from jute leaves.

Results of the study showed that red tilapia fed with diet containing 1000 mg pigment extract from jute leaves had the highest final weight, gain in weight, and absolute growth rate. However analysis of variance revealed no significant differences among the treatments. Fish survival and skin coloration were likewise comparable.

^{1/}Undergraduate thesis presented to the faculty of College of Fisheries, Central Luzon State University as a partial fulfillment of the requirements for the degree of Bachelor of Science in Fisheries. Prepared at the Department of Aquaculture under the supervision of Prof. Rodora M. Bartolome.

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