



AGRI-FISHERY

FUNDAMENTALS

A Compendium

by

Domenic T. Sanchez, PhD



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DOMENIC T. SANCHEZ, PhD

Agri-Fishery Fundamentals: A Compendium

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PREFACE

One of the most engaging disciplines in school I came across in the mid 80's was Agriculture. The teachers used to assign and mentor pupils how to raise and care for gardens. They grew various green leafy vegetables, legumes, and cucurbits, among others, while raising native chickens and ruminants making the garden thrive so well because of their manure; and the assertive instruction and modelling of the teachers made everything possible and meaningful to us. The exciting moment was when we finally got to enjoy the results of our effort - the bountiful harvest! Since that day, it has been evident that agriculture is the fundamental source of the nation's prosperity as it provides food security and countless advantages to people. We learned many things about growing plants, to value and take care of Mother Nature too.

This humble work is intended as supplementary instructional material *to Agri-Fishery II for the Bachelor in Technology and Livelihood* program as regarded to the course learning outcomes (CLO) for the students to demonstrate common competencies in agricultural crop production work, demonstrate correct manual handling procedures and techniques of handling tools, materials, and equipment; apply the concepts, competencies, and opportunities in vegetable production; determine the basic principles, technologies and farm practices in Agri-crop, animal and fish production; and understand the underlying concepts in evaluating a suitable site for fish production.

Agri-Fishery 2 is focused on the skills and knowledge required to support horticultural, agronomical, animal, and nursery production under supervision. It requires the ability to prepare tools, materials, and equipment for horticultural, agronomical, animal, and nursery work practices, ensure hygiene and quality control, undertake routine production assistance work, handle materials and equipment and perform thorough clean-ups upon completion of work.

Unit 1 covers agricultural production support concepts, techniques, and practices involving tools and equipment; site and land preparation; seed selection; fertilizer, water, and pest management; and harvesting.

Unit 2 focuses on concepts and practices of growing of vegetable crops intended for consumption, small to large-scale market enterprise, fertilization and pest management, and vegetable preservation techniques.

Unit 3 delves into concept and management practices in poultry and livestock raising. To understand its importance in converting energy from feeds into various by- products for consumption, sustenance, and economic stability.

Unit 4 focuses on numerous fish species, propagation and production management, fish preservation and net weaving methods.

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