

NATIONAL AQUACULTURE SECTOR OVERVIEW

Characteristics, structure and resources of the sector

A good, condensed general narrative of the aquaculture sector, including tables and maps as appropriate is required.

- **Summary**

Provide a general overview of the status and development of aquaculture in the country **(0.5 page)**

- **History and general overview**

Length of tradition in aquaculture (freshwater, brackishwater and marine); the diversity of production systems and species; evolution of main practitioners; major development landmarks; current (most recent statistics) total production volume (tons) and value (US\$); average yields of main production systems. **(0.5 page)**

- **Human resources**

Indicate the numbers of people involved in the sector or benefiting from aquaculture (i.e. full-time, part-time employers, ownership, etc.). Skills, education level, gender distribution. **(0.5 page)**

- **Farming systems distribution and characteristics (*map when possible*).**

Location of the main geographic areas of production by administrative units (district and province) including: latitude and longitude (using a GPS if possible), approximate surface in hectares or km² to help us mark on the map the size of each farming area; use of resources such as land, water, feeds, fertilizers, etc.; quantity of fish produced by area, production facilities used i.e., ponds, cages etc.. **(0.5 page)**

- **Culture species (*fish, molluscs, crustaceans, plants*)**

List the number of species contributing most of production value (>75% of total) providing for each species, information on its history and permitting, briefly comment on the relative importance of endemic, introduced and transferred species, as well as genetically improved species in the aquaculture industry. **(0.5 page)**

- **Culture practices**

Provide a description of the culture practices used in the country briefly comment on the relative importance of each practice **(0.5 page)**

Sector Performance (Use most recent year for which statistics is available)

This section should describe the contributions of the aquaculture sector to national food security and economic development, including impact on poverty alleviation, its use of resources and its relationship with the environment.

- **Production (*table: species quantity and value*)**

Provide data of aquaculture production official statistics for the main species (quantity-tons and value-US\$) for the most current year. The author should use FAO and/or published Government and private sector sources of data and information. Latest FAO national aquaculture statistics will be provided on diskette for the possible use in this section (**0.5 – 1 page**)

- **Market (*local market and export*)**

Describe the main domestic markets/consumption centres for the main aquaculture products. List the main exported aquaculture species, including seed, the type of exported product (fresh, live, iced, frozen, filleted, etc.); main importing countries. Very briefly describe the supply chain & distribution channels, and the mark up of product price through the marketing chain. List any existing labelling/certification of aquaculture products, the responsible agency (Government/private) and the related purpose and criteria (**0.5 – 1 page**)

- **Contribution to the economy (*food security, employment, poverty alleviation*)**

Describe the contributions of the aquaculture sector (informal/artisanal, small-scale as well as commercial entrepreneurial) to national food security, social and economic development, including impact on poverty alleviation. Briefly comment on *the present role and impact* of aquaculture as a component of the livelihood of poor rural households (e.g. income generation, fish consumption & family nutrition); the main aquaculture activities practiced by poor households (coastal & inland). (**0.5 page**)

Promotion and Management of the Sector

This section should explain how the sector is managed, including the institutional and legal frameworks, policy, strategy, development objectives, and measures adopted to attain management objectives. Country efforts to develop sustainable aquaculture (economic instruments such as incentives and access to capital investments) should be noted.

- **The institutional framework**

Identify the agency vested with administrative control of aquaculture (i.e. the lead government agency), and its specific responsibilities. Provide an organogram showing the location of the aquaculture agency under the concerned Ministry; and a breakdown of the structure of the agency. Provide information about the role of and support to the private sector associations, and self regulation efforts. (**0.5 – 1 page**)

- **The governing regulations**

Provide a list of the main regulations governing aquaculture, the enforcing institution and the specific aspect of aquaculture with which they deal [i.e.

purpose of regulation; e.g. for licensing farms; protecting the environment; protecting producers (e.g. legal rights; protection against other resource users; ownership/tenure; etc); assuring safety of products; *etc.*]. (**0.5 page**)

- **Applied research, education and training**

How and who sets research priorities? What is the role of Government and non-Government institutions and farmers in research? Is on-farm participatory research practiced? How are the results verified & transmitted? List (table) the major government aquaculture research institutions; universities degrees and/or training in aquaculture; list also technical schools offering training in aquaculture. (**0.5 page**)

Trends, Issues and Development

This section describes the main development trends in the sector, during the past 10 years, (from policy and planning to marketing of product), and identify the underlying the extra-sectoral and sectoral driving forces/reasons for these trends. Describe the main trends in the interaction of aquaculture with the environment and other sectors. (**1 - 2 pages**)

References (Bibliography and Links)

The author should supply complete citations for data sources and key statements and facts presented to permit verification by the FAO and the reader. Links to Internet aquaculture information sources in the country, and additional recommended reading, should be provided for relevant sections of the report, as available. Photos of typical aquaculture systems, species and environments, markets, etc. are welcome.