

## Fish Production Constraints in Ethiopia: A Review

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**Abstract:** Fish has historically played an important role in food security in many countries and contributes to do so in globally, providing 15-20 percent of animal protein intake. Fish farming has been practiced in different parts of the world like Europe. At present, the country Ethiopia has an estimated annual total exploitable fish potential of 51,481 tons, which can meet only 79 percent of the current actual demand, 55 percent of the projected demand in 2010 and 44 percent of the projected demand in 2015, based solely on population size. Lake Tana, Ashenge, Hayk, Koka, Zway, Langano, Awassa, Abaya and Chamo are among the Potential fish rich lakes found in Ethiopia. The main commercial species contributing to the total landing are *Oreochromis niloticus*, *Labeo* spp., *Clarias gariepinus*, *Burbus* species and *Lates niloticus*. Fish is highly nutritious, so even small quantities can improve people's diets. Several reasons like environmental degradation, poor fisheries development, increased illegal fisheries, traditional fishing system and climatic change attributed to the low production in the country.

**Key words:** Ethiopia - Fish - Production challenge

### INTRODUCTION

Fish farming has been practiced in different parts of the world like Europe, Canada, East Asia, China, Africa and developing countries like Nigeria [1]. It has been in practice since the ancient civilization of Egypt and China. More than 120 million people throughout the world are estimated to depend on fish for all or part of their income. Conservation of communities implies knowledge of the number and distribution of species of any particular area. As habitat degradation continues on a global scale, maintenance of species richness has become a central issue of conservation biology [2].

It is estimated that the inland fisheries of Africa produce 2.1 million tons of fish, which represents 24% of the total global production from inland waters [3]. According to Food and agricultural organization [4] developing countries accounted for 49 percent of world exports by value and 59 percent by volume in 2006. With growing trade in fish products, there is growing concern about the possible effects on developing country consumption and nutrition [4].

Ethiopia is the largest livestock populations in the Africa. The livestock sector accounts for over 26 percent of agricultural GDP (2009/10) and 8 percent of export earnings (2010) and can produce over 51,500 tons of fish per annum. However, their exploitation and consequently their contributions to food security and growth in the country are minimal despite the technologies capable of resolving the problems of livestock and fisheries production [5].

At present, the country Ethiopia has an estimated annual total exploitable fish potential of 51,481 tons, which can meet only 79 percent of the current actual demand, 55 percent of the projected demand in 2010 and 44 percent of the projected demand in 2015, based solely on population size [6]. Fish is highly nutritious, so even small quantities can improve people's diets. Fish provides about 20 percent of animal protein intake in developing countries and this can reach 90 percent in Small Island Developing States (SIDS) or coastal areas. Fisheries can also contribute indirectly to food security by providing revenue for food-deficient countries to purchase food. Fish exports from low-income, food-deficient countries are equivalent to 50 percent of the cost of their food imports [7].

# **Fish Production Constraints In Ethiopia A Review**

**Agricultural Economics Society of  
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## **Fish Production Constraints In Ethiopia A Review:**

**Review of the Fisheries Resources of the Red Sea and Gulf of Aden** M. J. Sanders, G. R. Morgan, 1989-01-01 The ten countries which border the Red Sea and Gulf of Aden depend to varying degrees on the area for their fish supplies with some countries such as South Yemen being totally dependent on the fish resources while to others such as Israel and Jordan the area is of minor importance Catches of all fish species have been increasing slowly in recent years and in 1986 totalled 60 9 thousand tons from the Red Sea and 99 4 thousand tons from the Gulf of Aden After reviewing the resource assessment and survey work which has been carried out in the area it was concluded that further increases in landings could be achieved on a sustainable basis However such increases will come from the development of new fisheries and the expansion of the areas presently Fished rather than from traditional fisheries which are in general fully exploited Utilization and marketing problems particularly with small pelagic and mesopelagic species however need to be addressed for the full potential of the area to be realized *Report of the Workshop on Climate Proofing Aquaculture in sub-Saharan Africa: Review of Policies and Production Systems for Climate Change Resiliency* Food and Agriculture Organization of the United Nations, 2018-11-14 Given aquaculture's growth in sub Saharan Africa this report sets out its current status and measures employed to adapt to climate change It includes a vulnerability assessment meteorological aquaculture and socioeconomic variables and a policy review *Commercial Fisheries Review* ,1968 **Fish Production in Irrigation Canals** Theresa A. Redding, Alex B. Midlen, 1991-01-01 This publication reviews the potential for fisheries production from irrigation canals It deals with the subject under the following major headings engineering aspects of irrigation systems factors limiting fish production in canals weed growth and associated problems in irrigation canals Cage culture in irrigation canals is presented in case studies for Indonesia Egypt and Thailand and pen culture in China Both cage and pen culture are considered to be the most suitable forms of aquaculture in irrigation canals Fish can be profitably and successfully reared in irrigation canals to control unwanted aquatic weed growth and there is some potential for the use of fish to control vectors and hosts of waterborne diseases Amongst the constraints levels of pesticides in fish tissues cultured in irrigation systems could be a problem in the development of foodfish production in irrigation canals The major constraint to aquaculture development in such systems is that a continuous preferably constant flow of water is required throughout the culture period and this is not available in many irrigation systems **Rapport de la Huitième Session Du Comité Des Pêches Continentales Pour L'Afrique** Food and Agriculture Organization of the United Nations. Committee for Inland Fisheries of Africa. Session, 1991 **Inland Waters - Ecology, Limnology, and Environmental Protection** ,2024-10-30 Inland water primarily includes rivers lakes reservoirs and wetlands It also includes ponds streams groundwater reservoirs springs cave waters and floodplains Most inland water bodies are lakes Inland waters are unique ecosystems offering services and habitat resources Food fiber medicine climate management flood and natural disaster mitigation nutrient recycling and drinking water purification are

among the services they offer for human progress and poverty reduction These ecosystems are also necessary for the generation of energy transportation leisure tourism and providing a home for flora and fauna This book includes updates and recent research on all aspects of inland waters and the related field ecology limnology and environment protection In this book different chapters are presented with different sections that include water pollution and treatment the hydromorphological quality of inland water and the ecology and limnology of inland water So in this book readers and scientists from different scientific fields will obtain updated information on all aspects of inland waters *Improving the productivity and market success of Ethiopian farmers: Final report of the IPMS project, 2004-2012* ILRI,2013-06-20

### **Marketing Systems for Fish From Lake Tana, Ethiopia: Opportunities for Improved Marketing and Livelihoods**

, Understanding the Cultures of Fishing Communities James R. McGoodwin, Food and Agriculture Organization of the United Nations, 2001-01-01 Small scale fishing accounts for almost 95% of the world s fishing and it has been estimated that small scale fishing activities support the livelihoods of more than 200 million people worldwide The purpose of this document is to help fisheries officials gain a clearer understanding of the cultures of small scale fishing communities It is hoped this will enable the development of more successful management policies and practices and empower people in such communities to improve their livelihoods The document highlights the importance of sustaining the rights of access to resources and the integration of cultural considerations into fisheries management policies It includes six case studies from distinct cultural regions of the world Documentación de la FAO. ,1991 Documentation de la FAO. ,1984 **Policies and strategic**

**plans in support of aquaculture development in sub-Saharan Africa** Menezes, A.; Gueye, N.; Jolly, C., 2024-10-17 The policy research initiative aims to enhance the FAO capacity to support African Member Countries design and implementation of aquaculture policies aligned with the 2030 Agenda for Sustainable Development and the FAO Blue Transformation vision This study examined existing aquaculture policies at the national regional and continental levels It aimed to identify priorities and policy trends and assess their coherence with the FAO Blue Transformation Roadmap Examination of the aquaculture objectives of Blue Transformation the African Union Policy Framework and Reform Strategy for Fisheries and Aquaculture in Africa PFRS and the Regional Economic Community aquaculture priorities showed broad similarities in the policy narrative and overarching dimensions Specifically the PFRS aims to jump start market led aquaculture the East African Community s EAC goal is to promote investment in sustainable commercial aquaculture and effective biosecurity measures the Southern African Development Community SADC aims to increase the contribution of aquaculture to local national and regional economic growth and trade the Economic Community of West African States ECOWAS aims to increase the profitability of environmentally and socially sound aquaculture to achieve continued sector growth and the Intergovernmental Authority on Development IGAD aims to enhance aquatic organism supplies generate income and employment and diversify livelihoods

**Bibliographia Aethiopica II** Hans Wilhelm Lockot, 1998 Erstmals wird hier die Fülle der englischsprachigen

Athiopienliteratur geordnet dargeboten In 100 Sections führt der Autor alle für die wissenschaftliche Beschäftigung mit Äthiopien wichtigen Buch und Zeitschriftenbeiträge zum Beispiel zur History of Research Archaeology Religion aber auch Fragen der Sociology Agriculture Zoology und Medical Sciences auf Wie im Falle der deutschsprachigen Literatur Bibliographia Aethiopica Die äthiopienkundliche Literatur des deutschsprachigen Raumes Äthiopistische Forschungen 9 1982 berücksichtigt der Autor auch alle ihm zugänglichen Besprechungen womit bei einer Aufnahme von mehr als 24 000 Titeln eine Art Bibliographic Encyclopedia entstanden ist

**United States Participation in the United Nations** United States. President, 1959

**AI in Agriculture for Sustainable and Economic Management** Sirisha Potluri, Suneeta Satpathy, Santi Swarup Basa, Antonio Zuorro, 2024-08-01 This book explains the best practices and their respective outcomes in artificial intelligence AI to meet sustainable development goals and demands It examines the practices technologies and innovations at the core of various research issues to meet the sustainable development demands in agriculture to balance social economic and environmental sustainability with AI AI in Agriculture for Sustainable and Economic Management discusses AI driven nanotechnology approaches for precision agriculture and solutions for the optimization of farming resources and their management The authors examine the impact of AI in agriculture and how technology driven sustainable farming with smart waste water treatment for zero waste for the circular economy can extend crop shelf life It discusses how AI expertise can be advantageous to envisage and evaluate the increasing demands of productivity and to help to maintain ecosystems and strengthen the capacity for crop adaptation in response to drastic changes in climate and weather natural disasters and other significant factors These findings and practices are also useful to emphasize how an agricultural ecosystem can be advanced and industrialized so that it can aid not only large commercial farms but also smaller farmlands Finally it also discusses how AI practices will help to find a balance between the volume of food manufactured and the proper maintenance of the ecosystem This book is intended for researchers and upper graduate students interested in artificial intelligence in agricultural engineering AI advances in crop science and technology for sustainable development

**Sixth World Congress on Seafood Safety, Quality and Trade** Food and Agriculture Organization of the United Nations, 2007-01-01 Fish and fish products are among the most traded food commodities close to 40 percent by volume ends up in international markets Yet around three quarters of fish exports finish up in just three markets the European Union Japan and the United States of America China is an increasingly important player both as an exporter and an importer Consumers expect that the fish they have access to will be safe and of acceptable quality regardless of where they are produced or ultimately consumed This has given rise to issues regarding fish quality and safety international trade risk analysis and harmonization of standards These and other issues are addressed in this document Series FAO Fisheries Proceedings

*Sustainable Intensification of Agriculture in Ethiopia* Agricultural Economics Society of Ethiopia. Conference, 1996

**Red Sea** Alasdair J. Edwards, 2013-10-22 The Red Sea is a unique and fragile environment All but

landlocked between Africa and Arabia its peculiar oceanographic conditions its geographical position and its geological history all conspire to make it particularly vulnerable to the side effects of human civilization In places it is already a key environment under threat What makes the Red Sea unique What are the threats to this environment Where should future research be directed These are just three of the major questions addressed by the scientists contributing to this book

*Cage Aquaculture* Food and Agriculture Organization of the United Nations,2007-01-01 This document contains nine FAO commissioned papers on cage aquaculture including a global overview one country review for China and seven regional reviews for Asia excluding China northern Europe the Mediterranean sub Saharan Africa Latin America and the Caribbean northern America and Oceania The content of the papers is based on the broad experience and sound knowledge of the authors with advice and help received from many experts and reviewers around the globe The papers were presented to a distinguished audience of some 300 participants from over 25 countries during the FAO Special Session on Cage Aquaculture Regional Reviews and Global Overview at the Asian Fisheries Society AFS Second International Symposium on Cage Aquaculture in Asia CAA2 held in Hangzhou China from 3 to 8 July 2006

**Catalogue of Research Literature for Development: Food production and nutrition** United States. Agency for International Development. Bureau for Technical Assistance,1976

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