LAKE VICTORIA ENVIRONMENTAL MANAGEMENT PROJECT (LVEMP)

DRAFT BIBLIOGRAPHY OF LAKE VICTORIA & ASSOCIATED FRESHWATER SYSTEMS

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Introduction

Lake Victoria lies between latitudes 0°20'N and 3°00'S, and longitudes 31°40'E and 34°55'E. The lake is situated at an altitude of 1,134m above sea level, and has a total area of 68,800 square km. It is the largest lake in Africa, and the second largest freshwater lake in the world. Tanzania manages 51%, Uganda 43% and Kenya 6% of the entire lake surface area.

The lake is highly dendritic and has a coastline of about 3,400 km that is extremely diverse and variable. Indentations to the east, deep inlets to the south, papyrus and ambatch swamps to the west, and flat, indented and forested coasts to the north typify the coastline (Acere *et. al.*, 1989).

The Lake Victoria catchment area provides food, fresh water for domestic, agricultural and industrial use; tourism and bio-diversity conservation to millions of people, livestock and many a flora and fauna. Its annual fish catch is estimated at between 400,000 to 500,000 metric tons with a landed value of USD $ 300 - 400 million shared between Tanzania (40%), Kenya (35.0%) and Uganda (25.0%). These catches are estimated to be between one quarter to one third of total catches from fresh water for the whole of the African continent (LVEMP, 1998).

While the importance of the Lake Victoria catchment area has increased tremendously over the last one hundred years or so, the lake's ecosystem has undergone drastic negative changes from environmental degeneration. The infestation of water hyacinth (*Eichhornia crassipes*), which has occurred in recent years in Lake Victoria, is a serious problem. The prolific spreading of this exotic weed is very fast such that in some areas it has already covered a substantial area of the lakeshore. However, efforts being made under LVEMP Project have reduced the infestation of this noxious weed to about 78% lakewide.

The Lake Victoria water quality has also declined greatly owing to eutrophication arising from increased inflow of nutrients into the lake. Excess nutrient loading has resulted into high algal populations and blooms, which cause taste and odour problems, high water treatment costs, algal toxins, deoxygenation, associated pathogens, and alteration of consumer food webs.

In the mid 1950s, Lake Victoria had adverse fish fauna comprising 28 genera and about 350 species (Greenwood, 1974). Out of these, more than 300 species were haplochromine cichlids (Greenwood, 1974; Witte *et al.*, 1992). During the 1970s, haplochromines were the most abundant fish species in the lake, constituting up to 80% of the demersal fish stocks (Kudhongania and Cardone, 1974).

During the 1950s, *Lates niloticus* and non-indigenous tilapiines, O*reochromis niloticus*, *O. leucostictus, Tilapia zilli* and *T. Rendalli* were introduced into Lake Victoria (Lowe McConnell, 1997). The introduction of tilapiines was aimed at improving the declining indigenous stocks of *O. esculentus* and *O. variabilis*. Nile Perch was introduced to remove the so-called "trash fish" - the haplochromines with little value. Stocks of *Lates niloticus* increased rapidly during 1970's which was followed by the decline and in some areas total disappearance of some of the indigenous species (Witte *et al.*, 1992).

Recent studies from trawl catches in the main lake have shown the recovery of some of the threatened species particularly in Speke and Mwanza Gulfs. The recovering species have included *Schilbe intermedius, Brycinus jacksonii, B. Sadleri, Synodontis victoriae, S. afrofischeri, Labeo victorianus, Protopterus aethiopicus* and *Haplochromis species* (Chande and Mhitu, 2001). Despite the fact that there is a recovery of these species, the fishery of Lake Victoria is dominated by three species comprising *L. niloticus, O. niloticus* and *R. argentea.*

Satellite lakes, rivers, ponds, dams and floodplains in the catchment have been singled out as important faunal reservoirs for Lake Victoria endangered species. Several fish species currently known to be rare in the main lake are represented in isolated groups of small water bodies in the Lake basin supporting fisheries of the riparian communities.

Recent observations in satellite lakes have indicated that *Oreochromis esculentus*, which has become extinct in Lake Victoria, is found at exploitable levels in some lakes eg. Burigi and Malimbe. Also, *O. variabilis* and *O. leucostictus* have been located at Lake Kirumi, Burigi and Katwe. *Rastrineobola argentea*, which is endemic to Lake Victoria, has not been found in any of the satellite lakes while *Bagrus docmak* has been spotted only in River Kagera (Katunzi, 2001).

This draft bibliography represents a contribution from the Database and Information Sub-component of the Fisheries Research Component of LVEMP Tanzania (LVEMP: Lake Victoria Environmental Management Project), which is implemented by Tanzania Fisheries Research Institute (TAFIRI). LVEMP is a comprehensive regional effort by the Governments of Kenya, Tanzania and Uganda to reverse the environmental and natural resources degradation of Lake Victoria and its basin. The five-year Project (1997 – 2002) was initiated under a Tripartite Agreement signed on 5th August 1994 between the three riparian countries to achieve the following main objectives:

- To maximize the sustainable benefits to riparian communities from using resources within the basin to generate food, employment and income, supply safe water, and sustain a disease-free environment

- To conserve biodiversity and genetic resources for the benefit of the riparian communities and the global community

- To harmonize national management programs in order to achieve, to the maximum extent possible, the reversal for increasing environmental degradation.

Implementation of the Project is carried out by Government Departments and Parastatal Institutions under the Ministries of Natural Resources and Tourism, Water and Livestock Development, Higher Education, Science and Technology, Agriculture and Food Security and Vice President's Office with a five-year grant and credit support from the World Bank (IDA and GEF).

This draft version of bibliography has been compiled from the following major sources:

Internet literature search

References were retrieved through the use of various Internet search engines, including the *Reference Manager* software, which is capable of searching through 111 libraries worldwide connected to the Internet.

Aquatic Sciences and Fisheries Abstracts (ASFA)

Relevant information from Aquatic Sciences and Fisheries Abstracts (ASFA) has also included, covering the period from 1978 to 1999. ASFA is an abstracting and indexing service covering the world's literature on the science, technology, management, and conservation of marine, brackish water, and freshwater resources and environments, including their socio-economic and legal aspects. The ASFA bibliographic database contains over 740,000 references, with coverage since 1971 (some 650,000 are computer searchable from 1978 onwards). About 3,500 new bibliographic references are added each month to the database. TAFIRI receives free CD-ROMs from FAO that contains ASFA materials.

Library documents focusing on Lake Victoria

Relevant bibliographies on Lake Victoria were also used as sources of information. These included those of Acere *et al.* (1989), Crul *et al.* (1988 and 1995) and Musoke *et al.* (2002). Relevant Literatures in the form of journals, books, newsletters, technical reports and reprints from the libraries of Fisheries Research Institutes in East Africa have also been included. Literature search in Kenya and Uganda was done in 1998.

This version of bibliography contains 1,536 references, covering six major areas as summarized below:

Type of reference	**Entries**
Fish Biology and Biodiversity	904
Socio-economics	303
Limnology, ecology and wetland ecosystems	115
Environmental Pollution	108
Aquaculture	64
Hydrology, geology and climate	42
Total number of entries	**1,536**

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