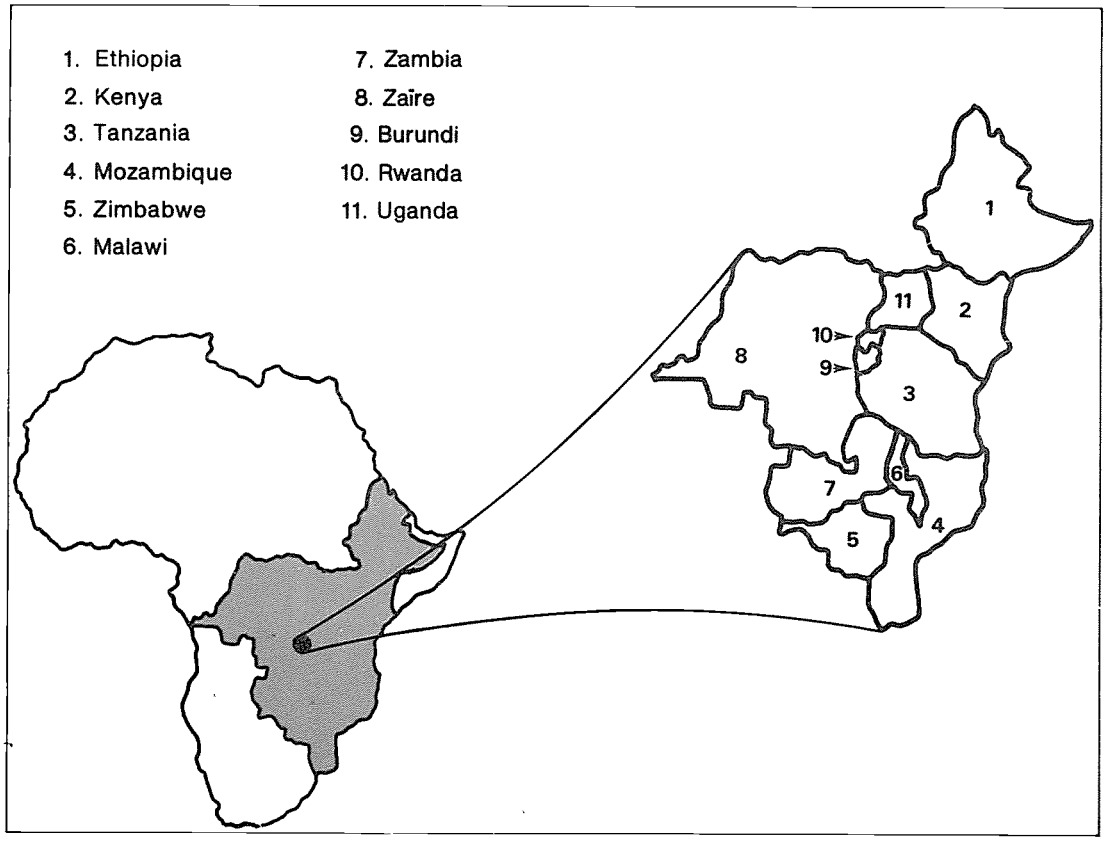
UNDP/FAO Regional Project
for Inland Fisheries Planning
Development and Management in
Eastern/Central/Southern Africa

RAF/87/099-TD/52/93 (En)

RAF/87/099-TD/52/93 (En) June 1993

Inland Fisheries of Eastern/Central/Southern Africa: Basic Fisheries Statistics



UNITED NATIONS DEVELOPMENT PROGRAMME

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS

UNDP/FAO Regional Project
for Inland Fisheries Planning
Development and Management in
Eastern/Central/Southern Africa

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Inland Fisheries of Eastern/Central/Southern Africa: Basic Fisheries Statistics

by

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FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS
UNITED NATIONS DEVELOPMENT PROGRAMME
Bujumbura, June 1993

The conclusions and recommendations given in this and other reports in the IFIP project series are those considered appropriate at the time of preparation. They may be modified in the light of further knowledge gained at subsequent stages of the Project. The designations employed and the presentation of material in this publication do not imply the expression of any opinion on the part of FAO or UNDP concerning the legal status of any country, territory, city or area, or concerning the determination of its frontiers or boundaries.

PREFACE

The IFIP project started in January 1989 with the main objective of promoting a more effective and rational exploitation of the fisheries resources of major water bodies of Eastern, Central and Southern Africa. The project is executed by the Food and Agriculture Organisation of the United Nations (FAO), and funded by the United Nations Development Programme (UNDP) for a duration of four years.

There are eleven countries and three intergovernmental organisations participating in the project: Burundi, Ethiopia, Kenya, Malawi, Mozambique, Uganda, Rwanda, Tanzania, Zambia, Zaire, Zimbabwe, The Communauté Economique des Pays des Grands Lacs (CEPGL), The Preferential Trade Area for Eastern and Southern African States (PTA) and the Southern African Development Commnity (SADC).

The immediate objectives of the project are: (i) to strengthen regional collaboration for the rational development and management of inland fisheries, particularly with respect to shared water bodies; (ii) to provide advisory services and assist Governments in sectoral and project planning; (iii) to strengthen technical capabilities through training; and (iv) to establish a regional information base.

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PREPARATION OF THIS DOCUMENT

One of the objectives of the IFIP project relates to the development of a regional data base on inland fisheries. The present document contains basic data pertaining to the shared lakes of the project area. It also contains socio-economic and fisheries data compiled nation-wide for all 11 participating countries. It is expected that such data base can be improved upon and completed at a later stage. An analysis of the data contained herein is being finalized which will be published separately by FAO. The authors acknowledge with thanks the contributions of Mr M. Bellemans, FAO consultant, and of Mr B. Horemans, former IFIP staff, to the development of this data base.

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IFIP PUBLICATIONS

Publications of the IFIP project are issued in two series:

A series of technical documents (RAF/87/099-TD) related to meetings, missions and research organized by the project.

A series of working papers (RAF/87/099-WP) related to more specific field and thematic investigations conducted in the framework of the project.

For both series, reference is further made to the document number (52), the year of publication (93) and the language in which the document is issued: English (En) or French (Fr).

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TABLE OF CONTENTS

INTRODUCTION

Eastern Africa is endowed with important inland fisheries resources, of which these of the great lakes of the Rift Valley in particular. As many of the lakes concerned serve as natural borders for the countries of Eastern Africa, cooperation in their joint exploitation is indispensable. This is especially the case for fisheries resources, if only because of the transboundary nature of fish stocks.

The IFIP Project was initiated for the very purpose of enhancing such cooperation. The progressive establishment of a data base on the inland fisheries of the region has been one of the numerous activities undertaken by the project. The present document constitutes a simple compilation of these data, with emphasis on time series for key indicators. An extensive analysis of this data base will be published separately by FAO so as to ensure a broader diffusion.

Overall this statistical review is intended for informational and analytical use by governmental and international bodies as well as individuals involved in the development and management of these shared fisheries resources. Indeed statistical data, current and historical, constitute the quantitative foundation upon which joint or coordinated fisheries policies and management programmes should be based.

The present compilation is organized in two separate sections. The first one concerns the shared lakes of the IFIP area. The second section concerns national fisheries data for all 11 participating countries: Burundi, Ethiopia, Kenya, Malawi, Mozambique, Rwanda, Tanzania, Uganda, Zaire, Zambia, and Zimbabwe.

The shared lakes under consideration are the following: Albert, Chilwa, Chiuta, Cohoha, Edward/Mobutu, Kariba (Reservoir), Kivu, Malawi/Nyasa, Tanganyika, Turkana and Victoria. For each lake, available time series are presented which pertain to fish production and major indicators of fishing effort (fleet size, number of fishermen, etc.). Data are given by riparian country and type of fishery. Other time series are provided when available.

Country-specific time series relate to socio-economic indicators and nation-wide fisheries information. These concern in particular information pertaining to total and per capita fish supply.

Participating countries were given the opportunity to check and amend the present data base prior to its publication. Comments received were incorporated as required except when data concerned time series originating from published FAO documents.

It should be emphasized that the reliability of some elements of this data base can easily be questioned. Indeed fisheries statistical systems in some of the countries concerned are still largely deficient. In others, the existence of a generally appropriate statistical system does not prevent the quality of fisheries statistics from being affected by numerous deficiencies in the collection and/or processing of basic data. Furthermore, different estimates are often available from alternative sources of information, or from the same source. To a large extent, this stems from periodic revisions of official estimates, itself a sign of deficiency in fisheries statistics.

Fisheries and socio-economic data were collected from a wide range of sources. Catch and trade data are generally derived from FISHDAB, the Fisheries Data Bank maintained by the FAO Fisheries information, Data, and Statistics Service. FISHDAB itself is based on information provided by national fisheries authorities. These data are sometimes provisional and subject to amendment. For recent years in particular, differences often exist between FISHDAB and official statistics. Other FAO data bases were used, which have recently been incorporated in FIPPDAT, a rather comprehensive Fishery Policy and Planning Data Bank developed by the FAO Fishery Development Planning Service.

Lake specific data have not been regularly compiled by FAO or any other international organizations. When available, official data have been used. Otherwise, additional information where sought from a rather systematic review of relevant technical literature available at the IFIP Project and the FAO Fisheries Library. A list of references used for that purpose is given Section 3.

Because of the critical lack of reliable data and of the variability in methods used for establishing many estimates, this data base is very much open to improvement. However, very little support is being provided for the improvement of fisheries statistics and related socio-economic information. The establishment of efficient fisheries monitoring and information systems is so crucial to fisheries management planning that it should, in the opinion of the authors, receive greater attention from the part of the countries concerned and much more support from donors.

SECTION I

BASIC FISHERIES STATISTICS BY LAKES

Note:

Basic fisheries statistics are presented in this Section for each of the shared lakes under review, lakewide and by riparian state. Data pertain to fish production by country and species group, fleet size by country and type of fisheries, and number of fishermen by country and type of fisheries.

Unless otherwise indicated, the data used to construct the following tables are official data from the fisheries departments of the countries concerned. To a large extent, other sources have been used to complete this data base. It remains that historical data have not been collected systematically for a number of lakes/countries, and that statistical coverage in recent years is still quite incomplete and sometimes unreliable.

The main problem encountered in compiling this data base is the very severe deficiency of fisheries statistics from Zaire. This is a matter of great concern if one considers the many lakes which Zaire shares with other countries and the eventual consequences of this lack of information on any joint assessment and management programmes.

TABLE : A.1

BASIC HISTORICAL DATA ON LAKE : ALBERT
MOBUTU

COUNTRIES : UGANDA
ZAIRE

YEAR	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
PRODUCTION BY COUNTRIES :			in 1000*mt																			
UGANDA	-	19,5	13,9	12,5	8,9	4,9	2,3	6,0	6,0	10,0	6,0	13,0	17,0	20,6	20,6	12,3	18,7	13,5	13,0	10,5	9,5	9,5
ZAIRE	-	-	10,0	12,0	8,7	3,8	3,8	3,8	3,9	5,0	5,7	3,0	7,9	9,7	4,4	6,4	7,7	5,2	9,0	7,9	7,0	5,5
TOTAL PRODUCTION	-	-	23,9	24,5	17,6	8,7	6,1	9,8	9,9	15,0	11,7	16,0	24,9	30,3	25,0	18,7	26,4	18,7	22,0	18,4	16,5	15,0
FLEET CHARACTERISTICS																						
ARTISANAL																						
UGANDA	1971	-	1349	1557	-	-	-	-	1300	-	-	-	-	-	-	-	-	-	-	-	985	826
ZAIRE	-	-	2088	-	-	-	-	-	2100	-	-	-	-	-	-	-	1860	-	-	-	-	-
TOTAL	-	-	3437	-	-	-	-	-	3400	-	-	-	-	-	-	-	-	-	-	-	-	-
SEMI-INDUSTRIAL																						
UGANDA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZAIRE	-	-	1	-	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																						
UGANDA	-	-	-	11942	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZAIRE	-	-	-	8500	-	-	-	-	11250	-	-	-	-	-	-	-	18000	-	-	-	-	-
TOTAL FISHERMEN	-	-	-	20442	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- = No data available or found

TABLE : A.1 cont.

BASIC HISTORICAL DATA ON LAKE : ALBERT / MOBUTU COUNTRIES : UGANDA / ZAIRE

YEAR	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950
PRODUCTION BY COUNTRIES :			in 1000*mt																	
UGANDA	10,4	13,5	13,2	13,6	12,4	10,2	12,5	12,2	11,8	12,3	10,9	10,9	9,0	3,8	3,8	3,0	3,0	-	-	-
ZAIRE	4,8	4,3	4,3	4,1	3,6	3,4	3,1	1,9	2,7	8,5	10,7	9,2	11,9	9,1	7,9	6,3	4,2	3,3	2,5	1,8
TOTAL PRODUCTION	15,2	17,8	17,5	17,7	16,0	13,6	15,6	14,1	14,5	20,8	21,6	20,1	20,9	12,9	11,7	9,3	7,2	-	-	-
FLEET CHARACTERISTICS																				
ARTISANAL																				
UGANDA	-	-	-	1140	764	-	-	-	-	-	-	-	-	700	659	600	568	546	497	-
ZAIRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEMI-INDUSTRIAL																				
UGANDA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZAIRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																				
UGANDA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZAIRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHERMEN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- = No data available or found

1959 UGANDA Production of 1958
1956 UGANDA Production of 1955
1954 UGANDA production of 1953

TABLE : A.2 BASIC HISTORICAL DATA ON LAKE : ALBERT MOBUTU COUNTRY : UGANDA

YEAR	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
PRODUCTION BY MAJOR SPECIES GROUPS :			in 1000*mt																			
LATES	-	6,0	0,6	3,0	1,5	1,0	0,2	1,3	1,3	2,4	2,5	1,2	3,3	4,3	4,3	2,7	5,1	3,6	3,7	2,3	1,1	2,3
TILAPIA	-	2,1	10,6	2,7	3,0	0,9	1,1	1,6	1,1	2,0	2,4	3,3	3,1	1,9	1,9	1,7	3,0	2,1	1,5	1,1	0,5	1,0
HYDROCYNUS		6,2	4,2	3,9	1,5	1,9	0	0,9	1,7	2,1	2	4,6	4,6	5,4	8,4	4,9	5,3	4,4	4,2	3,2	2,8	8,5
OTHERS	-	5,1	3,9	2,9	2,9	1,1	1,0	2,2	1,9	3,5	0,0	3,9	6,0	9,0	6,0	3,0	5,3	3,4	3,6	3,9	5,1	0,0
TOTAL PRODUCTION	-	19,5	19,3	12,5	8,9	4,9	2,3	6,0	6,0	10,0	6,0	13,0	17,0	20,6	20,6	12,3	18,7	13,5	13,0	10,5	9,5	9,5
FLEET CHARACTERISTICS																						
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	1971	-	1349	1557	-	-	-	-	1300	-	-	-	-	-	-	-	-	-	-	-	985	826
TOTAL FLEET	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHING EFFORT																						
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHING EFFORT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																						
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	11942	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHERMEN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- = No data available or found
Production data: U. Fish. Dept.
Effort data: Nyeko and Coenen (1991)

TABLE : A.2 cont. BASIC HISTORICAL DATA ON LAKE : ALBERT MOBUTU COUNTRY : UGANDA Continued

YEAR	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950
PRODUCTION BY MAJOR SPECIES GROUPS :			in 1000*mt																	
LATES	2,0	-	-	1,7	1,6	-	0,3	-	-	-	-	-	-	-	-	-	-	-	-	-
TILAPIA	0,3	-	-	0,1	0,2	-	0,2	-	-	-	-	-	-	-	-	-	-	-	-	-
HYDROCYNUS	1			0,8	0,3		0,3													
OTHERS	7,1	-	-	11,0	10,3	-	11,7	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PRODUCTION	10,4	13,5	13,2	13,6	12,4	10,2	12,5	12,2	11,8	12,3	10,9	10,9	9,0	3,8	3,8	3,0	3,0	-	-	-
FLEET CHARACTERISTICS																				
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	1140	764	-	-	-	-	-	-	-	-	700	659	600	568	546	497	-
TOTAL FLEET	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHING EFFORT																				
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHING EFFORT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																				
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHERMEN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- = No data available or found

TABLE : A.3 BASIC HISTORICAL DATA ON LAKE : ALBERT MOBUTU COUNTRY : ZAIRE

YEAR	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
PRODUCTION BY MAJOR SPECIES GROUPS :			in 1000*mt																			
LATES	-	-	-	2,6	1,6	-	-	-	0,3	-	-	-	-	-	-	-	-	-	-	-	-	-
TILAPIA	-	-	-	4,2	1,6	-	-	-	0,4	-	-	-	-	-	-	-	-	-	-	-	-	-
HYDROCYNUS	-	-	-	3,5	4,0	-	-	-	1,5	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	1,7	1,5	-	-	-	3,2	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PRODUCTION	-	-	10,0	12,0	8,7	3,8	3,8	3,8	5,4	5,0	5,7	3,0	7,9	9,7	4,4	6,4	7,7	5,2	9,0	7,9	7,0	5,5
FLEET CHARACTERISTICS																						
SEMI-INDUSTRIAL	-	-	1	-	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	2088	-	-	-	-	-	2100	-	-	-	-	-	-	-	1860	-	-	-	-	-
TOTAL FLEET	-	-	2089	-	-	-	-	-	2108	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHING EFFORT																						
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHING EFFORT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																						
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	125	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	8500	-	-	-	-	-	11000	-	-	-	-	-	-	18000	-	-	-	-	-
TOTAL FISHERMEN	-	-	-	-	-	-	-	-	-	11125	-	-	-	-	-	-	-	-	-	-	-	-

- = No data available or found

SOURCE: Proude (1984), 1950-83. Recent production and effort data, Corsi (1990); Maes (ed.) (1991)

TABLE : A.3 cont. BASIC HISTORICAL DATA ON LAKE : ALBERT MOBUTU COUNTRY : ZAIRE Continued

YEAR	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950
PRODUCTION BY MAJOR SPECIES GROUPS : in 1000*mt																				
LATES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TILAPIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HYDROCYNUS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PRODUCTION	4,8	4,3	4,3	4,1	3,6	3,4	3,1	1,9	2,7	8,5	10,7	9,2	11,9	9,1	7,9	6,3	4,2	3,3	2,5	1,8
FLEET CHARACTERISTICS																				
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FLEET	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHING EFFORT																				
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHING EFFORT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																				
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHERMEN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- = No data available or found

TABLE : A.4 BASIC HISTORICAL DATA ON LAKE : COHOHA COUNTRIES : BURUNDI
RWANDA

YEAR	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
TOTAL PRODUCTION BY COUNTRY :			in mt																			
BURUNDI	100,0	-	-	-	-	50,0	-	-	-	-	100,0	-	-	-	-	-	40,0	-	-	-	-	100,0
RWANDA	40,0	-	-	42,0	-	37,0	-	-	-	-	-	-	-	-	-	-	40,0	-	40,0	-	-	-
LAKEWIZE PRODUCTION	140,0	-	-	-	-	87,0	-	-	-	-	-	-	-	-	-	-	80,0	-	-	-	-	-
FLEET CHARACTERISTICS																						
ARTISANAL																						
BURUNDI	160	-	-	-	-	-	-	-	-	64	-	-	-	-	-	-	-	-	-	65	-	-
RWANDA	70	-	-	-	-	-	-	-	-	-	-	82	-	-	-	-	-	-	-	65	-	-
TOTAL	230	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	130	-	-
SEMI-INDUSTRIAL																						
BURUNDI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RWANDA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FISHERMEN																						
BURUNDI	200	-	-	-	-	50	-	-	-	64	-	-	-	-	-	-	30	-	-	65	-	-
RWANDA	80	-	58	77	97	115	-	-	-	64	-	82	-	-	-	-	20	-	-	65	-	-
TOTAL FISHERMEN	280	-	-	-	-	165	-	-	-	128	-	-	-	-	-	-	50	-	-	130	-	-

- = No data available or found

Source: Vanden Bossche & Bernacsek (1990); Maes et al. (1991)
1991 production estimated on the basis of 0.5 t/fisher/year (Horemans & Maes, 1989)

TABLE : A.5 BASIC HISTORICAL DATA ON LAKE : EDWARD COUNTRIES : UGANDA ZAIRE

YEAR	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
PRODUCTION BY COUNTRY : in 1000*mt																						
UGANDA	-	-	3,7	3,7	5,2	4,1	4,2	4,3	3,0	3,0	2,9	4,0	3,3	8,9	7,2	7,7	8,4	6,6	7,1	7,0	8,1	5,7
ZAIRE	11,4	-	10,7	10,7	8,0	6,0	4,0	4,0	3,0	1,0	1,7	3,5	5,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0	3,5
TOTAL PRODUCTION	-	-	14,4	14,4	13,2	10,1	8,2	8,3	6,0	4,0	4,6	7,5	8,3	10,9	9,2	9,7	10,4	8,6	9,1	9,0	10,1	9,2
FLEET CHARACTERISTICS																						
ARTISANAL																						
UGANDA	-	-	408	398	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZAIRE	1041	-	726	-	-	-	-	-	383	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	1134	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEMI-INDUSTRIAL																						
UGANDA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZAIRE	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																						
UGANDA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZAIRE	5760	-	-	-	-	-	-	-	2298	-	-	-	-	-	-	8000	-	-	-	-	1000	-
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- = No data available or found
1983 : UGANDA production of 1982
1967/69: UGANDA production of 1966
1978, 1977 : ZAIRE production of 1976
ZAIRE production 83-88: estimates based on trend in boat registrations in Vitchumbi (Copevi records)
SOURCE PRODUCTION: Ug. Fish. Dept.; Vanden Bossche and Bernacsek (1990); Vakily (1989); Muganda (1992)
SOURCE EFFORT: ECA (1989); Maes (ed.) (1991); Dunn (1989)

TABLE : A.5 cont.

BASIC HISTORICAL DATA ON LAKE : EDWARD

COUNTRIES : UGANDA
ZAIRE

continued

YEAR	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950
PRODUCTION BY COUNTRY :	in 1000* mt																			
UGANDA	7,8	7,8	7,8	7,8	7,8	5,8	6,5	6,7	6,3	5,2	-	-	-	-	2,5	-	-	-	-	-
ZAIRE	2,2	2,4	3,5	3,5	3,5	3,6	3,7	4,0	5,5	6,5	6,0	4,2	5,7	3,1	3,0	3,2	2,8	2,0	-	-
TOTAL PRODUCTION	10,0	10,2	11,3	11,3	11,3	9,4	10,2	10,7	11,8	11,7	-	-	-	-	5,5	-	-	-	-	-
FLEET CHARACTERISTICS																				
ARTISANAL																				
UGANDA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZAIRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEMI-INDUSTRIAL																				
UGANDA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZAIRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																				
UGANDA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZAIRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- = No data available or found

TABLE : A.6 BASIC HISTORICAL DATA ON LAKE : KARIBA COUNTRIES : ZAMBIA
ZIMBABWE

YEAR	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
PRODUCTION BY SPECIES GROUPS :		in 1000*mt																				
LIMNOTHRISSA	-	28,7	27,6	24,5	21,3	23,4	21,8	15,8	13,6	12,6	12,0	8,3	5,7	2,8	1,2	1,1	0,6	0,5	0,0	0,0	0,0	0,0
OTHERS	-	4,5	5,2	4,9	4,3	3,2	3,1	2,5	2,4	3,8	1,7	1,4	1,2	1,2	1,2	1,2	1,2	3,3	4,3	3,2	3,5	3,8
TOTAL PRODUCTION	-	33,2	32,8	29,4	25,6	26,6	24,9	18,3	16,0	16,4	13,7	9,7	6,9	4,0	2,4	2,3	1,8	3,8	4,3	3,2	3,5	3,8
FLEET CHARACTERISTICS																						
ARTISANAL																						
ZAMBIA	-	1835	2056	1370	1030	1425	958	929	783	479	643	549	-	-	-	-	-	-	-	-	294	-
ZIMBABWE	-	409	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	2244	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEMI-INDUSTRIAL																						
ZAMBIA	-	176	199	161	158	175	174	200	200	187	129	82	-	-	-	-	-	-	-	-	-	-
ZIMBABWE	230	220	213	211	211	200	195	171	171	171	171	171	65	29	8	5	4	2	1	-	-	-
TOTAL	-	396	412	372	369	375	369	371	371	358	300	253	-	-	-	-	-	-	-	-	-	-
FISHERMEN																						
ARTISANAL																						
ZAMBIA	-	2167	1931	1939	-	1674	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZIMBABWE	-	746	892	893	-	-	-	-	643	-	-	2000	-	-	140	160	180	210	230	250	260	280
TOTAL	-	2913	2823	2832	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEMI-INDUSTRIAL																						
ZAMBIA	-	792	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZIMBABWE	-	440	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	1232	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- = No data available or found
1990, 1989 Production "Others" Zimbabwe = 1988
1982, 1983 Production "Others" Zimbabwe = 1981
MAIN SOURCES: Vanden Bossche and Bernacsek (1990); Murphree et al. (1989); Thorsteinsson et al. (1991)

TABLE : A.6 cont.

BASIC HISTORICAL DATA ON LAKE : KARIBA

COUNTRIES : ZAMBIA
ZIMBABWE

continued

YEAR	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958
PRODUCTION BY SPECIES GROUPS :		in 1000*mt										
LIMNOTHRISSA	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	-	-	-	-
OTHERS	2,7	3,1	2,7	3,5	4,1	4,8	5,8	3,0	-	-	-	-
TOTAL PRODUCTION	2,7	3,1	2,7	3,5	4,1	4,8	5,8	3,0	-	-	-	-
FLEET CHARACTERISTICS												
ARTISANAL												
ZAMBIA	-	-	-	-	-	-	-	-	-	-	-	-
ZIMBABWE	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-
SEMI-INDUSTRIAL												
ZAMBIA	-	-	-	-	-	-	-	-	-	-	-	-
ZIMBABWE	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN												
ARTISANAL												
ZAMBIA	-	-	500	-	-	-	2500	-	-	-	407	-
ZIMBABWE	-	-	-	1000	-	-	208	-	-	-	-	-
TOTAL	-	-	-	-	-	-	2708	-	-	-	-	-
SEMI-INDUSTRIAL												
ZAMBIA	-	-	-	-	-	-	-	-	-	-	-	-
ZIMBABWE	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-

- = No data available or found

TABLE : A.7 BASIC HISTORICAL DATA ON LAKE : KARIBA COUNTRY : ZAMBIA

YEAR	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
PRODUCTION BY MAJOR SPECIES GROUPS :		in 1000*mt																				
LIMNOTHRISSA	-	6,9	7,5	6,1	5,5	7,7	7,2	5,4	5,0	4,1	0,9	0,4	-	-	-	-	-	-	-	-	-	-
TIGERFISH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
INSHORE	-	2,3	3,0	2,7	3,1	2,0	1,9	1,3	1,2	2,6	0,5	0,2	-	-	-	-	-	2,1	3,1	2,0	2,3	2,6
TOTAL PRODUCTION	-	9,2	10,5	8,8	8,6	9,7	9,1	6,7	6,2	6,7	1,4	0,6	-	-	-	-	-	2,1	3,1	2,0	2,3	2,6
FLEET CHARACTERISTICS																						
SEMI-INDUSTRIAL	-	176	199	161	158	175	179	200	200	187	129	82	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	1835	2056	1370	1030	1425	958	929	783	749	643	549	-	-	-	-	-	-	-	-	294	-
TOTAL FLEET	-	2011	2255	1531	1188	1600	1137	1129	983	936	772	631	-	-	-	-	-	-	-	-	-	-
FISHING EFFORT																						
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHING EFFORT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																						
SEMI-INDUSTRIAL *)	-	792	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	2167	1931	1939	-	1674	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHERMEN	-	2959	-	-	-	-	-	-	-	-	-	1000	-	-	-	-	-	-	-	-	-	-

- = No data available or found
SOURCE: Fleet characteristics, Machena and Kanondo (1991); Lupikisha (1992) 1984-90 data.
*) Based on average crew size of 4.5/rig (Horemans and Hoekstra, 1992)

TABLE : A.7 cont.

BASIC HISTORICAL DATA ON LAKE : KARIBA

COUNTRY : ZAMBIA

Continued

YEAR	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950
PRODUCTION BY MAJOR SPECIES GROUPS :			in 1000*mt																	
LIMNOTHRISSA	-	-	-	-	-	-	-	-	-	-	-	-	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
TIGERFISH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
INSHORE	-	-	-	-	-	-	-	-	-	-	-	-	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
TOTAL PRODUCTION	1,3	1,4	0,9	1,4	1,6	2,1	4,0	3,0	-	0,7	-	-	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
FLEET CHARACTERISTICS																				
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0
TOTAL FLEET	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0
FISHING EFFORT																				
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0
TOTAL FISHING EFFORT	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0
FISHERMEN																				
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0
ARTISANAL	-	-	500	-	-	-	-	2500	-	-	407	-	0	0	0	0	0	0	0	0
TOTAL FISHERMEN	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0

- = No data available or found

TABLE A.8 BASIC HISTORICAL DATA ON LAKE : KARIBA COUNTRY : ZIMBABWE

YEAR	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
PRODUCTION BY MAJOR SPECIES GROUPS :			in 1000*mt																			
LIMNOTHRISSA	19,3	21,8	20,1	18,4	15,8	15,7	14,6	10,4	8,6	8,5	11,1	7,9	5,7	2,8	1,2	1,1	0,6	0,5	0,0	-	-	-
TIGERFISH	0,01	0,03	0,02	0,02	0,04	0,07	0,03	0,03	0,05	0,05	0,07	0,05	0,07	0,13	0,14	0,09	0,08	0,02	-	-	-	-
INSHORE	2,2	2,2	2,2	2,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2
TOTAL PRODUCTION	21,5	24,0	22,3	20,6	17,0	17,0	15,8	11,6	9,9	9,8	12,4	9,2	7,0	4,1	2,5	2,4	1,9	1,7	1,2	1,2	1,2	1,2
FLEET CHARACTERISTICS																						
SEMI-INDUSTRIAL	-	230	220	213	211	200	195	171	171	171	171	171	65	29	8	5	4	2	1	-	-	-
ARTISANAL	-	409	409	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FLEET	-	639	629	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHING EFFORT																						
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHING EFFORT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																						
SEMI-INDUSTRIAL *)	-	440	-	-	-	-	-	-	-	-	-	1700	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	746	892	893	-	-	-	-	643	-	-	300	-	-	140	160	180	210	230	250	260	280
TOTAL FISHERMEN	-	1186	-	-	-	-	-	-	-	-	-	2000	-	-	-	-	-	-	-	-	-	-

- = No data available or found
Inshore production - SOURCE: 1988, Murphy et al. (1989), value repeated for 1989-1991
all other years: Machena and Kanondo (1991) value for 1971 repeated for 1972-87.
*) Based on an average crew size of .2/rig (Horemans and Hoekstra, 1992)
Note: Catches of Tiger fish relate only to by-catch of pelagic fishery

TABLE : A.8 cont.

BASIC HISTORICAL DATA ON LAKE : KARIBA

COUNTRY : ZIMBABWE Continued

YEAR	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950
PRODUCTION BY MAJOR SPECIES GROUPS :			in 1000*mt																	
LIMNOTHRISSA	-	-	-	-	-	-	-	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
TIGERFISH	-	-	-	-	-	-	-	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
INSHORE	1,4	1,7	1,8	2,1	2,5	2,7	1,8	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
TOTAL PRODUCTION	1,4	1,7	1,8	2,1	2,5	2,7	1,8	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
FLEET CHARACTERISTICS																				
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0
ARTISANAL	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL FLEET	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0
FISHING EFFORT																				
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0
ARTISANAL	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL FISHING EFFORT	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0
FISHERMEN																				
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0
ARTISANAL	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL FISHERMEN	-	-	-	1000	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0

- = No data available or found

TABLE : A.9 BASIC HISTORICAL DATA ON LAKE : KIVU COUNTRIES : RWANDA ZAIRE

YEAR	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
PRODUCTION BY MAJOR SPECIES GROUPS :			in 1000*mt																			
LIMNOTHRISSA	3,2	2,6	2,2	1,1	1,4	0,8	0,9	0,6	0,4	0,3	0,2	0,2	0,1	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
OTHERS	1,4	1,1	0,8	0,8	0,7	0,7	0,6	0,6	0,6	0,6	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9
TOTAL PRODUCTION	4,6	3,8	3,0	1,9	2,1	1,5	1,5	1,2	1,0	0,9	1,1	1,1	1,0	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9	0,9
FLEET CHARACTERISTICS																						
LIFT NETS	239	210	186	172	164	103	86	54	34	21	15	10	6	4	3	1	-	-	-	-	-	-
ARTISANAL	1375	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	1614	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																						
LIFT NETS	2629	-	-	-	1885	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	3536	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	6165	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- = No data available or found

SOURCE: Hanek et al. (1988); Hanek et al. (1992); Lambeuf (1991); Lambeuf et al. (1992)

TABLE : A.10

BASIC HISTORICAL DATA ON LAKE : KIVU

COUNTRY : RWANDA

YEAR	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
PRODUCTION BY MAJOR SPECIES GROUPS :	in 1000*mt																					
LIMNOTHRISSA	2,3	1,5	1,1	0,6	0,8	0,5	0,6	0,3	0,1	0,1	0,0	0,0	-	-	-	-	-	-	-	-	-	-
OTHERS *)	0,6	0,4	0,4	0,4	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3	0,3	-	-	-	-	-	-	-	-	-
TOTAL PRODUCTION	2,9	1,9	1,5	1,0	1,1	0,8	0,9	0,6	0,4	0,4	0,3	0,3	0,3	-	-	-	-	-	-	-	-	-
FLEET CHARACTERISTICS																						
LIFT NETS	170	129	97	97	97	64	55	29	13	4	3	1	0	0	0	0	0	0	0	0	0	0
ARTISANAL	811	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FLEET	981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																						
LIFT NETS	1870	-	-	-	854	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0
ARTISANAL	1249	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHERMEN	3119	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- = No data available or found

*) 87 data repeats for 79-86, 90 data repeats for 88-89

Production Limnothrissa: total production estimated from CPUE data (Marshall, 1990), number of liftnets (above), and KIVUSTAT estimates (1990/91). These data gives an average effort per boat of 260 night/year.

Production = CPUE (Kg/night) x 260 x fleet size (Rwanda). Idem for Zaire.

This procedure gives results similar to those of Mannini (1991).

Number of fishermen: see A11

TABLE . A.11 BASIC HISTORICAL DATA ON LAKE : KIVU COUNTRY : ZAIRE

YEAR	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
PRODUCTION BY MAJOR SPECIES GROUPS :	in 1000*mt																					
LIMNOTHRISSA	0,9	1,1	1,1	0,5	0,5	0,3	0,3	0,3	0,3	0,2	0,2	0,2	0,1	-	-	-	-	-	-	-	-	-
OTHERS *)	0,8	0,7	0,4	0,4	0,4	0,4	0,3	0,3	0,3	0,3	0,6	0,6	0,6	-	-	-	-	-	-	-	-	-
TOTAL PRODUCTION	1,7	1,8	1,5	0,9	0,9	0,7	0,6	0,6	0,6	0,5	0,8	0,8	0,7	-	-	-	-	-	-	-	-	-
FLEET CHARACTERISTICS																						
LIFT NET	69	98	89	75	67	39	31	25	21	17	12	9	6	4	3	1	0	0	0	0	0	0
ARTISANAL	1306	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
INDUSTRIAL	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FLEET	1376	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																						
LIFT NET	759	0	0	0	1031	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARTISANAL	2287	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHERMEN	3046	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- = No data available or found

*) 1986 data repeated for 87-89, 1982 data repeated for 83-35, 1979 data repeated for 80-81

Number of fishermen: Hanek et al. (1987); Hanek et al. (1992) with crew size of 11 for lift nets and as indicated for artisanal fisheries

TABLE : A.12

BASIC HISTORICAL DATA ON LAKE : MALAWI
NYASA

COUNTRIES : MALAWI
MOZAMBIQUE
TANZANIA

YEAR	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
PRODUCTION BY COUNTRIES :			in 1000*mt																			
MALAWI	37,7	38,9	39,2	35,8	41,6	36,4	29,0	32,6	31,2	24,2	25,3	30,2	22,4	33,6	33,9	36,5	47,2	52,2	54,8	57,0	54,0	44,0
MOZAMBIQUE	-	-	-	-	-	-	2,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TANZANIA	-	28,7	34,5	39,5	30,0	36,0	27,0	18,2	-	-	-	-	-	-	-	-	-	19,8	13,0	-	-	21,7
TOTAL PRODUCTION	-	67,6	73,7	75,3	71,6	72,4	58,0	50,8	-	-	-	-	-	-	-	-	-	72,0	67,8	-	-	65,7
FLEET CHARACTERISTICS																						
ARTISANAL																						
MALAWI	-	10000	-	-	10263	5755	6600	-	-	4000	-	4800	-	5075	5077	4000	4500	6660	-	-	-	-
TANZANIA	-	2052	2418	2463	2846	2439	2667	2517	2359	-	-	-	-	-	-	-	-	2284	1991	2685	-	1898
SUBTOTAL	-	12052	-	-	13109	8194	9267	-	-	-	-	-	-	-	-	-	-	8944	-	-	-	-
MOZAMBIQUE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEMI-INDUSTRIAL																						
MALAWI	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TANZANIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUBTOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOZAMBIQUE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																						
MALAWI	-	22000	-	-	-	19441	-	-	-	7200	-	-	-	-	-	-	-	-	-	-	-	-
TANZANIA	-	6255	5455	5393	6331	5226	5091	4805	6144	-	-	-	-	-	-	-	-	2781	2807	3923	-	3654
SUBTOTAL	-	28255	-	-	-	24667	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOZAMBIQUE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

SOURCES: Tanz. & Mal. Fish. Dept.; Vanden Bossche (1990); GOPA (1987); Ssentongo and Dampha, eds. (1992).
- = No data available or found

TABLE : A.12 cont.

BASIC HISTORICAL DATA ON LAKE : MALAWI
NYASSA

COUNTRIES : MALAWI
MOZAMBIQUE
TANZANIA

YEAR	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950
PRODUCTION BY COUNTRIES :			in 1000*mt																	
MALAWI	24,2	7,8	5,4	5,8	6,5	6,2	7,4	7,9	-	-	-	-	-	-	-	-	-	-	-	-
MOZAMBIQUE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TANZANIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PRODUCTION	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FLEET CHARACTERISTICS																				
ARTISANAL																				
MALAWI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TANZANIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUBTOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOZAMBIQUE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEMI-INDUSTRIAL																				
MALAWI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TANZANIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUBTOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOZAMBIQUE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																				
MALAWI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TANZANIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUBTOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOZAMBIQUE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- = No data available or found

TABLE : A.13 BASIC HISTORICAL DATA ON LAKE : MALAWI COUNTRY : MALAWI

YEAR	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
PRODUCTION BY MAJOR SPECIES GROUPS :			in 1000*mt																			
ENGRAULICYPRIS	4,6	1,9	11,7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CICHLIDS	21,1	27,2	18,6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CATFISHES	6,0	3,8	3,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	6,1	6,0	5,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PRODUCTION	37,8	38,9	39,3	35,8	41,6	36,4	29,0	32,6	31,2	24,2	25,3	30,2	22,4	33,6	33,9	36,5	47,2	52,2	54,8	57,0	54,0	44,0
FLEET CHARACTERISTICS																						
SEMI-INDUSTRIAL	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	10000	-	-	10263	5755	6600	-	-	-	-	4800	-	5075	5077	4000	4500	6660	-	-	-	-
TOTAL FLEET	-	10020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHING EFFORT																						
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHING EFFORT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																						
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	22000	-	-	-	19441	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHERMEN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- = No data available or found

TABLE : A.13 cont. BASIC HISTORICAL DATA ON LAKE : MALAWI COUNTRY : MALAWI Continued

YEAR	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950
PRODUCTION BY MAJOR SPECIES GROUPS :			in 1000*mt																	
ENGRAULICYPRIS	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
CICHLIDS	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
CATFISHES	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
OTHERS	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
TOTAL PRODUCTION	24,2	7,8	5,4	5,8	6,5	6,2	7,4	7,9	.	.	.	.	.	.	.	.	.	.	.	.
FLEET CHARACTERISTICS																				
SEMI-INDUSTRIAL	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ARTISANAL	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
TOTAL FLEET	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
FISHING EFFORT																				
SEMI-INDUSTRIAL	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ARTISANAL	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
TOTAL FISHING EFFORT	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
FISHERMEN																				
SEMI-INDUSTRIAL	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
ARTISANAL	.	.	.	.	.	.	.	4610	.	.	.	.	.	.	.	.	.	.	.	.
TOTAL FISHERMEN	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

. = No data available or found

TABLE : A.14

BASIC HISTORICAL DATA ON LAKE : MALAWI/NYASA COUNTRY : TANZANIA

YEAR	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
PRODUCTION BY MAJOR SPECIES GROUPS :		in 1000*mt																				
ENGRAULICYPRIS	-	6,6	8,8	8,4	5,1	13,0	13,0	0,1	-	-	-	-	-	-	-	-	-	1,7	4,1	-	-	-
CICHLIDS	-	2,5	3,4	5,3	4,2	2,8	2,4	2,8	-	-	-	-	-	-	-	-	-	5,3	0,7	-	-	-
CATFISHES	-	6,0	6,2	4,7	3,8	3,3	2,0	3,2	-	-	-	-	-	-	-	-	-	2,9	1,7	-	-	-
OTHERS	-	13,6	16,1	21,1	16,9	16,9	9,6	12,1	-	-	-	-	-	-	-	-	-	9,9	6,5	-	-	-
TOTAL PRODUCTION	-	28,7	34,5	39,5	30,0	36,0	27,0	18,2	-	-	-	-	-	-	-	-	-	19,8	13,0	-	-	21,7
FLEET CHARACTERISTICS																						
SEMI-INDUSTRIAL	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARTISANAL	-	2052	2418	2463	2846	2439	2667	2517	2359	-	-	-	-	-	-	-	-	2284	1991	2685	-	1898
TOTAL FLEET	-	2052	2418	2463	2846	2439	2667	2517	2359	-	-	-	-	-	-	-	-	2284	1991	2685	-	1898
FISHING EFFORT																						
SEMI-INDUSTRIAL	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHING EFFORT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																						
SEMI-INDUSTRIAL	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARTISANAL	-	6255	5455	5393	6331	5226	5091	4805	6144	-	-	-	-	-	-	-	-	2781	2807	3923	-	3654
TOTAL FISHERMEN	-	6255	5455	5393	6331	5226	5091	4805	6144	-	-	-	-	-	-	-	-	2781	2807	3923	-	3654

- = No data available or found

TABLE : A.15

BASIC HISTORICAL DATA ON LAKE : MWERU COUNTRIES : ZAMBIA
ZAIRE

YEAR	1992	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
PRODUCTION BY COUNTRIES :			in 1000*mt																			
ZAMBIA	-	7,5	7,2	7,0	7,7	6,3	10,8	11,0	7,9	7,9	2,7	7,6	9,4	7,6	9,5	10,7	8,5	8,1	8,0	9,1	8,3	7,3
ZAIRE	-	-	3,0	1,0	11,1	6,6	2,3	4,5	14,7	3,0	3,3	3,2	3,6	4,9	3,3	3,4	5,2	5,0	5,3	6,1	0,4	5,4
TOTAL PRODUCTION	-	-	10,2	8,0	18,8	12,9	13,1	15,5	22,6	10,9	6,0	10,8	13,0	12,5	12,8	14,1	13,7	13,1	13,3	15,2	8,7	12,7
FLEET CHARACTERISTICS																						
ARTISANAL																						
ZAMBIA	7707	-	-	-	-	6640	4876	-	-	1762	1702	1750	2599	-	-	-	-	-	-	-	4155	-
ZAIRE	-	-	-	-	-	-	-	-	3962	-	-	-	-	-	-	-	1500	-	-	-	-	-
TOTAL	-	-	-	-	-	6635	4876	-	-	1762	1702	1750	2599	-	-	-	-	-	-	-	4155	-
SEMI-INDUSTRIAL																						
ZAMBIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZAIRE	-	2	-	-	-	-	-	-	14	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																						
ZAMBIA	9436	-	-	-	-	7723	5890	-	-	2630	1759	3500	2602	-	2124	-	-	-	-	-	5963	-
ZAIRE	-	-	-	3377	2958	2932	3745	3846	4017	1361	2361	2204	2520	4064	-	-	2681	2942	2442	2552	2384	2384
TOTAL FISHERMEN	-	-	-	-	-	10655	9635	-	-	3991	4120	5704	5122	-	2124	-	-	-	-	-	8347	-

- = No data available or found
Sources: Zam. Fish. Dept.; Maes, ed. (1990), Reynolds et al. (1991), Konaré (1984), Vanden Bossche & Bernascek (1990)
Source 1992 effort/fishermen data: Kapasa and van Zwieten (1992); fishermen are defined as owners
NOTE: Production figures exclude pelagics

TABLE : A.15 cont.

BASIC HISTORICAL DATA ON LAKE : MWERU COUNTRIES : ZAMBIA
ZAIRE

YEAR	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1947	1932
PRODUCTION BY COUNTRIES :			in 1000*mt																	
ZAMBIA	7,7	7,6	7,5	9,5	-	6,4	6,2	5,6	6,5	7,3	7,4	7,4	7,6	7,8	7,1	6,6	6,4	5,2	-	-
ZAIRE	5,5	-	-	12,4	-	-	-	-	-	14,0	-	13,6	14,1	-	-	-	-	9,4	4,0	0,7
TOTAL PRODUCTION	13,2	-	-	21,9	-	-	-	-	-	21,3	-	21,0	21,7	-	-	-	-	14,6	-	-
FLEET CHARACTERISTICS																				
ARTISANAL																				
ZAMBIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZAIRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEMI-INDUSTRIAL																				
ZAMBIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZAIRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																				
ZAMBIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZAIRE	2226	-	-	2106	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHERMEN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- = No data available or found

TABLE : A.16 BASIC HISTORICAL DATA ON LAKE : RWERU COUNTRIES : BURUNDI
RWANDA

YEAR	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
PRODUCTION BY COUNTRIES :			in mt																			
BURUNDI	128,0	-	-	-	-	-	-	-	-	-	200,0	-	-	-	-	-	-	-	-	-	-	300,0
RWANDA	96,0	-	-	80,0	-	114,0	-	-	-	-	100,0	-	-	-	-	-	200,0	-	250,0	232,0	-	-
TOTAL PRODUCTION	224,0	-	-	-	-	-	-	-	-	-	300,0	-	-	-	-	300,0	-	-	-	-	-	-
FLEET CHARACTERISTICS																						
ARTISANAL																						
BURUNDI	80	-	-	-	-	-	-	-	-	81	-	-	-	-	-	-	-	-	-	112	-	-
RWANDA	60	-	-	48	-	66	-	-	-	-	-	89	-	-	-	-	-	-	-	130	-	-
TOTAL	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	242	-	-
SEMI-INDUSTRIAL																						
BURUNDI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RWANDA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FISHERMEN																						
BURUNDI	100	-	-	-	-	-	-	-	-	81	-	-	-	-	-	45	45	-	-	112	-	-
RWANDA	60	-	43	48	93	64	-	-	-	81	-	89	-	-	-	-	-	-	100	130	-	-
TOTAL FISHERMEN	160	-	-	-	-	-	-	-	-	162	-	-	-	-	-	150	150	-	-	242	-	-

- = No data available or found
Source: Vanden Bossche & Bernacsek (1990); Maes et al. (1991)
Production 1991 estimated on the basis of 1.6 t/fisher/year (Horemans & Maes, 1989)

TABLE : A.17 BASIC HISTORICAL DATA ON LAKE : TANGANYIKA COUNTRIES : BURUNDI
TANZANIA
ZAMBIA
ZAIRE

YEAR	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
PRODUCTION BY COUNTRIES :			in 1000*mt																			
BURUNDI	23,5	21,5	21,2	17,0	15,8	19,8	16,8	21,1	20,0	18,8	16,9	18,6	16,5	25,4	30,5	23,8	17,8	15,1	8,5	7,4	16,9	13,3
TANZANIA	-	64,9	59,5	60,6	93,7	69,8	115,0	107,1	44,2	44,2	44,2	38,0	44,2	36,5	61,9	73,6	64,3	76,5	55,4	49,1	50,5	46,5
ZAMBIA	-	15,5	14,4	10,6	12,5	13,0	14,9	11,7	10,5	8,0	3,9	8,3	4,0	6,5	7,9	6,5	7,4	4,5	5,5	6,3	7,0	10,7
SUBTOTAL	-	101,9	95,1	88,2	122,0	102,6	146,7	139,9	74,7	71,0	65,0	64,9	64,7	68,4	100,3	103,9	89,5	96,1	69,4	62,8	74,4	70,5
ZAIRE (*)	-	-	-	30,0	-	-	16,0	15,0	17,5	17,0	13,0	15,0	-	-	-	-	17,0	-	-	-	-	7,0
FLEET CHARACTERISTICS																						
ARTISANAL																						
BURUNDI	1053	1096	999	962	897	997	882	871	925	914	885	872	1148	1751	1440	1158	988	661	451	313	1975	1975
TANZANIA	-	4495	3747	4307	-	-	-	-	-	-	-	-	10432	4428	7654	8408	5520	5821	7396	4950	3958	3405
ZAMBIA	-	1278	-	-	-	-	-	-	841	781	791	560	479	-		1096	-	635	-	-	-	-
SUBTOTAL	-	6869	-	-	-	-	-	-	-	-	-	-	12059	-		10662	-	7117	-	-	-	-
ZAIRE (*)	-	4862	-	4466	-	-	4500	3002	-	-	-	-	-	-	-	-	4215	-	-	-	-	-
SEMI-INDUSTRIAL																						
BURUNDI	16	17	17	16	16	17	17	20	19	21	22	22	21	17	18	19	23	18	15	14	15	13
TANZANIA	0	-	6	6	5	5	5	4	4	3	4	4	-	4	3	3	1	1	-	-	-	-
ZAMBIA	-	14	14	14	13	12	9	6	5	3	3	2	2	2	3	4	4	4	4	3	3	4
SUBTOTAL	-	-	37	36	34	34	31	30	28	27	29	28	-	23	24	26	28	23	-	-	-	-
ZAIRE	15	-	16	16	-	15	13	13	8	8	8	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																						
BURUNDI	4611	4815	4427	4241	4054	4541	4149	4197	4458	4460	4294	4031	4556	6609	5458	4512	3783	2524	1752	5400	6536	6470
TANZANIA	-	15797	15400	16565	-	-	-	-	-	-	-	-	13342	8978	15426	14238	12350	13150	13448	11781	7877	6102
ZAMBIA	-	3625	1660	1560	1114	1590	1335	1115	-	-	-	-	-	-	-	1501	-	-	-	2206	-	1632
SUBTOTAL	-	24237	21487	22366	-	-	-	-	-	-	-	-	-	-	-	20251	-	-	-	19387	-	14204
ZAIRE (*)	-	13158	-	13000	-	-	-	8590	-	-	-	-	-	-	-	-	10000	-	-	-	-	-

- = No data available or found

*) Zaire production, source: Vanden Bossche & Bernacsek (1990). 1988 data, source: Mikkola & Lindquist (1989)
1984/85 effort data, source: Villegas (1984) and FAO (1985) for Northern and Southern regions respectively.
1989/90 effort data, source: Maes et al. (1991) and Service de l'Environment, Rapport annuel 1989 (Région Tanganyika) for Northern and Southern regions respectively.

TABLE : A.17 cont

BASIC HISTORICAL DATA ON LAKE : TANGANYIKA

COUNTRIES : BURUNDI
TANZANIA
ZAMBIA
ZAIRE

YEAR	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950
PRODUCTION BY COUNTRIES :			in 1000*mt																	
BURUNDI	15,6	12,3	13,6	17,8	20,2	10,4	10,6	7,2	5,2	8,1	10,1	10,3	8,5	4,9	5,2	4,9	3,2	3,0	1,5	1,0
TANZANIA	14,2	15,0	15,0	15,0	15,7	16,2	-	-	-	-	-	-	-	-	-	-	-	-	-	3,7
ZAMBIA	7,1	10,1	12,0	6,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUBTOTAL	36,9	37,4	40,6	39,3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZAIRE	-	-	-	-	-	-	-	-	-	35,0	-	-	29,5	-	-	-	-	-	-	-
FLEET CHARACTERISTICS																				
ARTISANAL																				
BURUNDI	1965	1845	1845	1822	1840	1470	1425	1514	1517	1520	1507	1522	1464	1350	1578	1512	1360	1360	1360	1360
TANZANIA	3712	3505	3259	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZAMBIA	-	-	-	-	-	755	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUBTOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZAIRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEMI-INDUSTRIAL																				
BURUNDI	11	10	8	9	8	8	9	8	8	12	12	12	8	4	2	2	0	0	0	0
TANZANIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZAMBIA	3	2	2	2	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-
SUBTOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZAIRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																				
BURUNDI	6357	5368	5302	5235	5201	4164	3987	4104	4124	4205	4175	4185	3884	3450	3940	3780	3335	3335	3335	3335
TANZANIA	6933	8633	5360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZAMBIA	-	-	-	-	-	2038	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SUBTOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ZAIRE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- = No data available or found

TABLE : A.18 BASIC HISTORICAL DATA ON LAKE : TANGANYIKA COUNTRY : BURUNDI

YEAR	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
PRODUCTION BY MAJOR SPECIES GROUPS :			in 1000*mt																			
LIMNOTHRISSA	2,0	2,0	2,0	1,7	1,2	2,3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOLOTHRISSA	18,3	16,4	14,9	10,9	9,3	13,1	13,3	15,9	11,3	15,1	13,3	14,9	12,9	19,2	21,9	17,0	14,7	13,7	7,1	6,3	16,2	11,2
LATES + LUCIOLATES	2,5	2,5	3,5	3,2	3,7	3,6	2,7	4,5	8,0	3,0	3,0	3,4	3,2	5,7	8,3	5,8	2,4	1,2	1,0	0,6	0,7	2,1
TILAPIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CATFISHES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	0,7	0,6	0,8	1,2	1,6	0,8	0,8	0,7	0,7	0,7	0,6	0,3	0,4	0,5	0,3	1,0	0,7	0,2	0,4	0,5	0,0	0,0
TOTAL PRODUCTION	23,5	21,5	21,2	17,0	15,8	19,8	16,8	21,1	20,0	18,8	16,9	18,6	16,5	25,4	30,5	23,8	17,8	15,1	8,5	7,4	16,9	13,3
FLEET CHARACTERISTICS																						
SEMI-INDUSTRIAL	16	17	17	16	16	17	17	20	19	21	22	22	21	17	18	19	23	18	15	14	15	13
ARTISANAL	1053	1096	999	962	897	997	882	871	925	914	885	872	1148	1751	1440	1158	988	661	451	313	1975	1975
TOTAL FLEET	1069	1113	1016	978	913	1014	899	891	944	935	907	894	1169	1768	1458	1177	1011	679	466	327	1990	1988
FISHING EFFORT (boat nights, 1000)																						
SEMI-INDUSTRIAL	4,3	4,4	4,6	4,0	4,1	5,0	4,8	5,9	5,4	5,5	6,5	6,5	5,4	4,4	5,0	6,6	5,0	4,2	3,9	3,6	4,5	-
ARTISANAL	184,4	184,9	167,9	146,3	139,8	170,4	147,6	165,6	145,2	136,4	141,2	142,5	111,0	170,1	151,0	186,9	158,1	130,9	-	-	-	-
TOTAL FISHING EFFORT	188,7	189,3	172,5	150,3	143,9	175,4	152,4	171,5	150,6	141,9	147,7	149,0	116,4	174,5	156,0	193,5	163,1	135,1	3,9	3,6	4,5	-
FISHERMEN																						
SEMI-INDUSTRIAL	528	560	528	528	560	560	560	660	630	693	726	726	714	570	594	627	759	594	495	462	495	429
ARTISANAL	4083	4255	3899	3713	3494	3981	3589	3537	3828	3767	3568	3305	3842	6039	4864	3885	3024	1930	1257	4938	6041	6041
TOTAL FISHERMEN	4611	4815	4427	4241	4054	4541	4149	4197	4458	4460	4294	4031	4556	6609	5458	4512	3783	2524	1752	5400	6536	6470

- = No data available or found
1950 to 1991 : Data on artisanal and traditional fisheries grouped
Source: Bur. Fish. Dept. and Bellemans (1991a, 1992)

TABLE : A.18 cont. BASIC HISTORICAL DATA ON LAKE : TANGANYIKA COUNTRY : BURUNDI Continued

YEAR	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950
PRODUCTION BY MAJOR SPECIES GROUPS :			in 1000*mt																	
LIMNOTHRISSA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOLOTHRISSA	13,5	10,4	12,2	17,0	19,8	9,7	8,8	5,7	4,3	6,2	7,8	7,2	6,7	3,9	4,2	4,0	3,0	2,5	1,5	1,0
LATES + LUCIOLATES	1,8	1,6	1,3	0,6	0,3	0,6	1,5	1,2	0,6	1,4	1,7	2,6	1,3	0,6	0,5	0,3	-	-	-	-
TILAPIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CATFISHES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	0,3	0,3	0,1	0,2	0,1	0,1	0,3	0,3	0,3	0,5	0,6	0,5	0,5	0,4	0,5	0,6	0,2	0,5	-	-
TOTAL PRODUCTION	15,6	12,3	13,6	17,8	20,2	10,4	10,6	7,2	5,2	8,1	10,1	10,3	8,5	4,9	5,2	4,9	3,2	3,0	1,5	1,0
FLEET CHARACTERISTICS																				
SEMI-INDUSTRIAL	11	10	8	9	8	8	9	8	8	12	12	12	8	4	2	2	0	0	0	0
ARTISANAL	1965	1845	1845	1822	1840	1470	1425	1514	1517	1520	1507	1522	1464	1350	1578	1512	1360	1360	1360	1360
TOTAL FLEET	1976	1855	1853	1831	1848	1478	1434	1522	1525	1532	1519	1534	1472	1354	1580	1514	1360	1360	1360	1360
FISHING EFFORT																				
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHING EFFORT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																				
SEMI-INDUSTRIAL	363	330	264	297	264	264	297	264	264	400	400	400	264	145	75	75	0	0	0	0
ARTISANAL	5994	5038	5038	4938	4937	3900	3690	3840	3860	3805	3775	3785	3620	3305	3865	3705	3335	3335	3335	3335
TOTAL FISHERMEN	6357	5368	5302	5235	5201	4164	3987	4104	4124	4205	4175	4185	3884	3450	3940	3780	3335	3335	3335	3335

- = No data available or found
1950 to 1991 : Data on artisanal and traditional fisheries grouped

TABLE : A.19 BASIC HISTORICAL DATA ON LAKE : TANGANYIKA COUNTRY : TANZANIA

YEAR	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
PRODUCTION BY MAJOR SPECIES GROUPS :			in 1000*mt																			
LIMNOTHRISSA AND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOLOTHRISSA (Dagaa)	-	42,1	38,7	31,1	61,7	45,1	82,5	77,3	-	-	-	-	25,6	30,6	50,1	56,0	36,0	51,5	23,1	38,0	45,3	-
LATES + LUCIOLATES	-	12,3	10,3	15,9	24,7	17,5	22,6	5,2	-	-	-	-	-	-	-	-	-	9,2	9,4	-	1,9	-
TILAPIA	-	2,1	1,9	4,8	2,0	0,7	1,2	4,5	-	-	-	-	-	-	-	-	-	0,6	1,9	-	0,3	-
CATFISHES	-	0,6	0,6	0,7	0,3	0,6	0,4	1,3	-	-	-	-	-	-	-	-	-	1,7	2,2	-	0,5	-
OTHERS	-	7,8	8,0	8,1	5,0	5,9	8,3	18,8	-	-	-	-	18,6	5,9	11,8	17,6	28,3	13,5	18,8	11,1	2,5	-
TOTAL PRODUCTION	-	64,9	59,5	60,6	93,7	69,8	115,0	107,1	-	-	44,2	38,0	44,2	36,5	61,9	73,6	64,3	76,5	55,4	49,1	50,5	46,5
FLEET CHARACTERISTICS																						
SEMI-INDUSTRIAL (*)	0	-	6	6	5	5	5	4	4	3	4	4	-	4	3	3	1	1	-	-	-	-
ARTISANAL	-	4495	3747	4301	-	-	-	-	-	-	-	-	10432	4428	7654	8408	5520	5821	7396	4950	3958	3405
TOTAL FLEET	-	4495	3753	4307	-	-	-	-	-	-	-	-	10432	4432	7657	8411	5521	5822	7396	4950	3958	3405
FISHING EFFORT																						
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHING EFFORT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																						
SEMI-INDUSTRIAL	-	-	210	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	15797	15190	16355	-	-	-	-	-	-	-	-	-	-	-	-	12350	13150	-	-	-	-
TOTAL FISHERMEN	-	15797	15400	16565	-	-	-	-	-	-	-	-	13342	8978	15426	14238	12350	13150	13448	11781	7877	6102

- = No data available or found
1983/82 Production of 1981
1968/67 Production of 1966
*) Source: Bayona, (1992); refers to active vessels.

TABLE : A.19 cont. BASIC HISTORICAL DATA ON LAKE : TANGANYIKA COUNTRY : TANZANIA Continued

YEAR	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950
PRODUCTION BY MAJOR SPECIES GROUPS :			in 1000*mt																	
LIMNOTHRISSA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOLOTHRISSA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LATES + LUCIOLATES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TILAPIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CATFISHES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PRODUCTION	14,2	-	-	15,0	15,7	16,2	-	-	-	-	-	-	-	-	-	-	-	-	-	3,7
FLEET CHARACTERISTICS																				
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	3712	3505	3259	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FLEET	3712	3505	3259	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHING EFFORT																				
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHING EFFORT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																				
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHERMEN	6933	8633	5360	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- = No data available or found

TABLE : A.20 BASIC HISTORICAL DATA ON LAKE : TANGANYIKA COUNTRY : ZAMBIA

YEAR	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
PRODUCTION BY MAJOR SPECIES GROUPS :			in 1000*mt																			
LIMNO. and STOLOTHRISSA *)	-	5,9	14,2	5,0	1,2	3,9	7,6	12,2	4,4	3,5	2,0	5,4	1,8	1,6	4,8	-	-	-	-	-	-	-
LATES + LUCIOLATES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TILAPIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CATFISHES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PRODUCTION	-	15,5	14,4	10,6	12,5	13,0	14,9	14,6	10,5	8,0	3,9	8,3	4,0	6,5	7,9	6,5	7,4	4,5	5,5	6,3	7,0	10,7
FLEET CHARACTERISTICS																						
SEMI-INDUSTRIAL	-	14	14	14	13	12	9	6	5	3	3	2	2	2	3	4	4	4	4	3	3	4
ARTISANAL **)	-	1278	-	-	-	-	-	-	841	781	791	560	479	-	-	1096	-	635	-	960	-	744
TOTAL FLEET	-	1292	-	-	-	-	-	-	846	784	794	562	481	-	-	1100	-	639	-	963	-	748
FISHING EFFORT (boat nights)																						
SEMI-INDUSTRIAL	-	3650	3366	3525	3182	3021	2495	1836	1257	971	878	581	453	353	652	810	-	-	966	868	518	669
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHING EFFORT	-	3650	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																						
SEMI-INDUSTRIAL	-	620	620	620	585	540	415	325	180	110	110	75	75	75	110	145	180	180	180	145	145	180
ARTISANAL **)	-	3005	1040	940	529	1050	920	790	-	-	-	-	-	-	-	1356	-	-	-	2061	-	1452
TOTAL FISHERMEN	-	3625	1660	1560	1114	1590	1335	1115	-	-	-	-	-	-	-	1501	-	-	-	2206	-	1632

- = No data available or faund
*) Data an Kapenta productian calculated from Pearce (1992)
**) Data Zam. Fish. Dep. and Pearce (1992)

TABLE : A.20 cont. BASIC HISTORICAL DATA ON LAKE : TANGANYIKA COUNTRY : ZAMBIA Continued

YEAR	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950
PRODUCTION BY MAJOR SPECIES GROUPS :			in 1000*mt																	
LIMNOTHRISSA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
STOLOTHRISSA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LATES + LUCIOLATES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TILAPIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CATFISHES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PRODUCTION	7,1	10,1	12,0	6,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FLEET CHARACTERISTICS																				
SEMI-INDUSTRIAL	3	2	2	2	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	-	-	755	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FLEET	-	-	-	-	-	757	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHING EFFORT																				
SEMI-INDUSTRIAL	668	575	538	557	571	414	220	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHING EFFORT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																				
SEMI-INDUSTRIAL	220	75	75	75	75	36	36	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	-	-	2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHERMEN	-	-	-	-	-	2038	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- = No data available or found

TABLE : A.21 BASIC HISTORICAL DATA ON LAKE : TURKANA COUNTRY : KENYA

YEAR	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
PRODUCTION BY MAJOR SPECIES GROUPS :			in 1000*mt																			
LATES	0,0	0,0	0,0	1,4	3,5	3,4	2,9	3,3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TILAPIA	0,7	1,1	0,0	0,7	2,3	2,1	3,1	3,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CATFISHES	0,3	1,8	1,0	1,6	0,9	1,1	1,2	1,3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	0,1	0,3	0,0	0,4	0,5	0,7	0,3	0,6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PRODUCTION	1,1	3,2	1,0	4,1	7,2	7,3	7,5	8,4	10,1	11,0	10,6	12,4	13,7	15,6	15,5	17,0	4,2	5,7	4,9	4,1	3,6	4,9
FLEET CHARACTERISTICS																						
SEMI-INDUSTRIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARTISANAL	202	198	201	141	150	155	161	159	159	170	180	264	195	206	180	165	132	110	117	106	51	45
TOTAL FLEET	202	198	201	141	150	155	161	159	159	170	180	264	195	206	180	165	132	110	117	106	51	45
FISHERMEN																						
SEMI-INDUSTRIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARTISANAL	1600	1559	1448	1415	2000	2000	2000	2500	5500	7000	6000	7000	5000	3000	3000	2500	2300	1800	1600	1500	2000	1900
TOTAL FISHERMEN	1600	1559	1448	1415	2000	2000	2000	2500	5500	7000	6000	7000	5000	3000	3000	2500	2300	1800	1600	1500	2000	1900

- = No data available or found
SOURCE, KENYA: Kenya Fish. Dept.
NO HISTORICAL DATA AVAILABLE FOR ETHIOPIA, FISHING ACTIVITY REPORTED TO BE NEGLIGEABLE (Curr, 1991)

TABLE : A.21 cont. BASIC HISTORICAL DATA ON LAKE : TURKANA COUNTRY : KENYA Continued

YEAR	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950
PRODUCTION BY MAJOR SPECIES GROUPS :	in 1000 *mt																			
LATES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TILAPIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CATFISHES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PRODUCTION	3,8	2,0	1,7	1,5	1,1	0,9	1,3	0,3	-	-	-	-	-	-	-	-	-	-	-	-
FLEET CHARACTERISTICS																				
SEMI-INDUSTRIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARTISANAL	45	30	27	16	15	11	5	4	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FLEET	45	30	27	16	15	11	5	4	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																				
SEMI-INDUSTRIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ARTISANAL	1720	1200	1500	1000	800	650	300	150	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHERMEN	1720	1200	1500	1000	800	650	300	150	-	-	-	-	-	-	-	-	-	-	-	-

- = No data available or found

TABLE : A.22

BASIC HISTORICAL DATA ON LAKE : VICTORIA COUNTRIES : KENYA
TANZANIA
UGANDA

YEAR	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
PRODUCTION BY COUNTRIES :			in 1000*mt																			
KENYA	186,4	185,1	135,4	125,1	113,4	103,2	88,6	71,8	77,3	60,9	38,2	26,9	30,6	23,9	19,3	18,7	16,6	17,2	16,8	16,0	14,9	16,4
TANZANIA	-	231,6	225,0	244,7	168,0	236,1	115,1	101,7	79,5	68,5	78,1	73,3	63,2	53,1	70,4	55,3	56,7	41,7	49,6	40,9	42,6	48,4
UGANDA	145,0	145,0	146,6	111,2	97,2	56,8	54,6	44,8	17,0	12,9	17,0	10,0	16,9	15,6	15,6	11,1	13,8	16,2	32,5	35,3	38,8	41,7
TOTAL PRODUCTION	-	561,7	507,0	481,0	378,6	396,1	258,3	218,3	173,8	142,3	133,3	110,2	110,7	92,6	105,3	85,1	87,1	75,1	98,9	92,2	96,3	106,5
FLEET CHARACTERISTICS																						
ARTISANAL																						
KENYA	6229	5500	5500	5500	5000	5000	5500	5000	5000	5000	5000	4900	4900	4600	4500	4350	4200	4100	4100	4000	4000	4000
TANZANIA	7797	7797	7757	6546	6667	7404	4160	4650	4141	4245	4199	3997	4457	3448	3398	3794	3918	3332	3976	3494	3302	3785
UGANDA	7806	8000	-	6743	-	-	-	-	2900	-	-	-	-	-	-	-	-	-	-	2700	3264	2643
TOTAL	21832	20797	-	18789	-	-	-	-	12041	-	-	-	-	-	-	-	-	-	-	10194	10566	10428
SEMI-INDUSTRIAL																						
KENYA	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TANZANIA	-	20	-	-	-	18	17	17	15	13	9	5	5	5	5	5	5	5	-	-	-	-
UGANDA	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																						
KENYA	25000	22000	22000	16487	20000	21000	21500	20000	20000	20000	-	-	-	-	-	-	-	-	-	-	-	-
TANZANIA	-	29095	29816	22926	22207	24241	17556	17827	15194	18263	20787	20587	20937	17654	14327	14733	15037	13381	15917	14690	14131	12091
UGANDA	-	-	-	25468	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	64878	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- = No data available or found
Tanzania 1990 fleet size repeated in 1991
Sources: Fish. Dept.; Gréboval and Mannini [1992]

TABLE : A.22 cont.

BASIC HISTORICAL DATA ON LAKE : VICTORIA COUNTRIES : KENYA
TANZANIA
UGANDA

YEAR	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950
PRODUCTION BY COUNTRIES :			in 1000*mt																	
KENYA	17,4	16,4	15,7	15,2	13,0	12,0	11,6	-	-	-	-	-	-	-	-	-	-	-	-	-
TANZANIA	53,9	59,4	43,8	34,0	43,8	41,8	42,5	18,8	15,9	28,8	31,3	26,2	-	-	-	-	-	-	-	-
UGANDA	46,3	40,5	38,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PRODUCTION	117,6	116,3	97,7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FLEET CHARACTERISTICS																				
ARTISANAL																				
KENYA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TANZANIA	-	2538	-	-	1289	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UGANDA	-	-	-	-	-	-	-	-	-	-	1693	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEMI-INDUSTRIAL																				
KENYA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TANZANIA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UGANDA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																				
KENYA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TANZANIA	-	11517	-	-	6077	-	-	-	-	-	9643	-	-	-	-	-	-	-	-	-
UGANDA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- = No data available or found

TABLE : A.23 BASIC HISTORICAL DATA ON LAKE : VICTORIA COUNTRY : KENYA

YEAR	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
PRODUCTION BY MAJOR SPECIES GROUPS :	in 1000*mt																					
RASTRINEOBOLA	58,1	46,7	45,5	40,9	33,1	34,5	25,9	19,4	16,4	10,4	7,6	9,4	9,3	8,7	6,7	5,6	4,5	3,7	1,8	1,3	-	0,5
LATES	51,2	71,5	56,8	61,2	68,5	56,9	50,0	41,3	52,3	33,1	22,8	4,3	4,3	1,1	0,2	0,1	0,1	0,1	0,2	0,0	-	0,0
TILAPIA	46,9	38,7	17,8	16,9	10,4	9,2	9,4	7,5	4,3	4,5	3,9	5,0	2,7	2,6	1,4	1,0	0,6	1,9	2,7	2,6	-	6,1
CATFISHES	13,2	5,8	4,0	1,0	-	1,8	0,7	1,0	2,6	4,8	1,9	2,9	5,5	2,4	3,4	3,9	4,5	4,2	4,7	3,8	-	2,8
OTHERS	17,0	22,4	11,3	5,1	1,4	0,8	2,6	2,6	1,7	8,1	2,0	5,3	8,8	9,1	7,6	8,1	6,9	7,3	7,4	8,3	14,9	7,0
TOTAL PRODUCTION	186,4	185,1	135,4	125,1	113,4	103,2	88,6	71,8	77,3	60,9	38,2	26,9	30,6	23,9	19,3	18,7	16,6	17,2	16,8	16,0	14,9	16,4
FLEET CHARACTERISTICS																						
SEMI-INDUSTRIAL	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	6229	5500	5500	5000	5000	5000	5500	5000	5000	5000	5000	4800	4900	4600	4500	4300	4200	4100	4100	4000	4000	4000
TOTAL FLEET	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHING EFFORT																						
SEMI-INDUSTRIAL	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHING EFFORT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																						
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	25000	22000	22000	16487	20000	21000	21500	20000	20000	20000	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHERMEN	25000	22000	22000	6487	20000	21000	21500	20000	20000	20000	-	-	-	-	-	-	-	-	-	-	-	-

- = No data available or found
FLEET SIZE: Fisheries Department data; Actual survey data 1973 and 1991, Hoekstra et al. (1991)

TABLE : A.23

BASIC HISTORICAL DATA ON LAKE : VICTORIA COUNTRY : KENYA

YEAR	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
PRODUCTION BY MAJOR SPECIES GROUPS :			in 1000*mt																			
RASTRINEOBOLA	58,0	46,7	45,5	40,9	33,1	34,5	25,9	19,4	16,4	10,4	7,6	9,4	9,3	8,7	6,7	5,6	4,5	3,7	1,8	1,3	-	0,5
LATES	57,2	71,5	56,8	61,2	68,5	56,9	50,0	41,3	52,3	33,1	22,8	4,3	4,3	1,1	0,2	0,1	0,1	0,1	0,2	0,0	-	0,0
TILAPIA	50,5	38,7	17,8	16,9	10,4	9,2	9,4	7,5	4,3	4,5	3,9	5,0	2,7	2,6	1,4	1,0	0,6	1,9	2,7	2,6	-	6,1
CATFISHES	1,0	0,6	-	1,0	-	1,8	0,7	1,0	2,6	4,8	1,9	2,9	5,5	2,4	3,4	3,9	4,5	4,2	4,7	3,8	-	2,8
OTHERS	19,6	27,6	15,3	5,1	1,4	0,8	2,6	2,6	1,7	8,1	2,0	5,3	8,8	9,1	7,6	8,1	6,9	7,3	7,4	8,3	14,9	7,0
TOTAL PRODUCTION	186,3	185,1	135,4	125,1	113,4	103,2	88,6	71,8	77,3	60,9	38,2	26,9	30,6	23,9	19,3	18,7	16,6	17,2	16,8	16,0	14,9	16,4
FLEET CHARACTERISTICS																						
SEMI-INDUSTRIAL	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	6229	5500	5500	5000	5000	5000	5500	5000	5000	5000	5000	4800	4900	4600	4500	4300	4200	4100	4100	4000	4000	4000
TOTAL FLEET	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHING EFFORT																						
SEMI-INDUSTRIAL	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHING EFFORT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																						
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	25000	22000	22000	16487	20000	21000	21500	20000	20000	20000	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHERMEN	25000	22000	22000	6487	20000	21000	21500	20000	20000	20000	-	-	-	-	-	-	-	-	-	-	-	-

- = No data available or found

FLEET SIZE: Fisheries Department data; Actual survey data 1973 and 1991, Hoekstra et al. (1991)

TABLE : A.23 cont. BASIC HISTORICAL DATA ON LAKE : VICTORIA COUNTRY : KENYA Continued

YEAR	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950
PRODUCTION BY MAJOR SPECIES GROUPS :			in 1000*mt																	
RASTRINEOBOLA	0,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LATES	0,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TILAPIA	5,8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CATFISHES	2,6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	8,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PRODUCTION	17,4	16,4	15,7	15,2	13,0	12,0	11,6	-	-	-	-	-	-	-	-	-	-	-	-	-
FLEET CHARACTERISTICS																				
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FLEET	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHING EFFORT																				
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHING EFFORT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																				
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHERMEN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- = No data available or found

TABLE : A.24 BASIC HISTORICAL DATA ON LAKE : VICTORIA COUNTRY : TANZANIA

YEAR	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970
PRODUCTION BY MAJOR SPECIES GROUPS :		in 1000 * mt																				
RASTRINEOBOLA	-	29,0	29,3	39,5	12,2	29,5	24,3	5,8	9,5	6,8	11,2	8,7	7,9	9,8	7,5	7,1	15,1	-	-	-	0,0	0,0
LATES	-	175,3	161,6	148,6	97,5	123,9	37,7	41,6	16,4	2,0	0,0	0,0	-	0,0	-	-	-	-	-	-	0,0	0,0
TILAPIA	-	16,9	17,5	21,1	13,9	17,6	10,7	8,8	6,7	10,6	13,3	10,7	7,6	6,3	5,3	3,6	5,7	4,3	6,0	-	5,2	6,4
CATFISHES	-	6,9	11,2	23,5	20,8	35,3	24,1	14,3	-	-	-	-	-	-	-	-	-	9,9	12,5	-	8,2	11,3
OTHERS	-	3,5	5,4	12,0	23,6	29,8	18,3	31,2	46,9	49,1	53,6	53,9	47,7	37,0	57,6	44,6	35,9	27,5	31,1	-	29,2	30,7
TOTAL PRODUCTION	-	231,6	225,0	244,7	168,0	236,1	115,1	101,7	79,5	68,5	78,1	73,3	63,2	53,1	70,4	55,3	56,7	41,7	49,6	40,9	42,6	48,4
FLEET CHARACTERISTICS																						
SEMI-INDUSTRIAL	-	20	-	-	-	18	17	17	15	13	9	5	5	5	5	5	5	5	-	-	-	-
ARTISANAL	-	7797	7757	6546	6667	7404	4160	4650	4141	4245	4199	3997	4457	3448	3398	3794	3918	3332	3976	3494	3302	3785
TOTAL FLEET	-	7817	-	-	-	7422	4177	4667	4166	4258	4208	4002	4462	3453	3403	3799	3923	3337	-	-	-	-
FISHING EFFORT																						
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHING EFFORT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																						
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHERMEN	-	29095	29816	22926	22207	24241	17556	17827	15194	18263	20787	20587	20937	17654	14327	14733	15037	13381	15917	14690	14131	12091

- = No data available or found
Source: Tanz. Fish. Dept.
Source industrial fleet: Reynolds and Gréboval, 1988.

TABLE : A.24 cont. BASIC HISTORICAL DATA ON LAKE : VICTORIA COUNTRY : TANZANIA Continued

YEAR	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950
PRODUCTION BY MAJOR SPECIES GROUPS :			in 1000*mt																	
RASTRINEOBOLA	0,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LATES	0,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TILAPIA	7,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CATFISHES	14,9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	32,0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PRODUCTION	53,9	59,4	43,8	34,0	43,8	41,8	42,5	18,8	15,9	28,8	31,3	26,2	-	-	-	-	-	-	-	-
FLEET CHARACTERISTICS																				
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	2538	-	-	1289	-	-	-	-	-	1693	-	-	-	-	-	-	-	-	-
TOTAL FLEET	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHING EFFORT																				
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHING EFFORT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																				
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHERMEN	-	11517	-	-	6077	-	-	-	-	-	9643	-	-	-	-	-	-	-	-	-

- = No data available or found

TABLE : A.25 BASIC HISTORICAL DATA ON LAKE : VICTORIA COUNTRY : UGANDA

YEAR	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971.	1970
PRODUCTION BY MAJOR SPECIES GROUPS :			in 1000*mt																			
RASTRINEOBOLA	-	25,5	21,2	6,1	6,0	-	-	-	-	-	-	-	0,2	-	-	0,0	0,0	-	-	-	-	-
LATES	-	86,2	101,3	92,0	76,6	41,0	37,4	23,9	13,9	1,9	0,8	0,1	0,2	0,5	0,5	0,6	0,3	1,1	1,0	0,8	0,7	0,6
TILAPIA	-	25,2	20,2	12,0	5,8	5,8	1,3	2,3	0,5	0,5	6,2	2,4	3,2	4,7	4,7	2,9	8,7	8,2	9,3	11,9	15,2	18,9
CATFISHES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	-	8,1	3,9	1,1	8,8	10,0	15,9	18,6	2,6	10,5	10,0	7,5	13,3	10,4	10,4	7,6	4,8	6,9	22,2	22,6	22,9	22,2
TOTAL PRODUCTION	145,0	145,0	146,6	111,2	97,2	56,8	54,6	44,8	17,0	12,9	17,0	10,0	16,9	15,6	15,6	11,1	13,8	16,2	32,5	35,3	38,8	41,7
FLEET CHARACTERISTICS																						
SEMI-INDUSTRIAL (*)	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	7806	8000	-	6743	-	-	-	-	2900	-	-	-	-	-	-	-	-	-	-	2700	3264	2643
TOTAL FLEET	7808	8002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHING EFFORT																						
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHING EFFORT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																						
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	25468	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHERMEN	-	-	-	25468	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

* 2 pair trawlers
- = No data available or found
Source: Ug. Fish Dept.
Source fleet surveys: Tumwebaze and Coenen, eds. (1991); TDRI (1983)

TABLE : A.25 cont. BASIC HISTORICAL DATA ON LAKE : VICTORIA COUNTRY : UGANDA Continued

YEAR	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950
PRODUCTION BY MAJOR SPECIES GROUPS : in 1000* mt																				
RASTRINEOBOLA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LATES	0,6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TILAPIA	22,1	14,0	17,9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CATFISHES	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OTHERS	23,6	26,5	20,3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL PRODUCTION	46,3	40,5	38,2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FLEET CHARACTERISTICS																				
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FLEET	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHING EFFORT																				
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHING EFFORT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHERMEN																				
SEMI-INDUSTRIAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ARTISANAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL FISHERMEN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

- = No data available or found

SECTION II

BASIC FISHERIES AND SOCIO-ECONOMIC DATA BY COUNTRIES

INTRODUCTION

This Section presents basic fisheries and socio-economic data per country. These data are grouped in 3 categories:

1. Fish production by origin (marine, inland) and by species group for inland production; Source: Fisheries departments, unless indicated.

2. Fishing fleets by type of fisheries; Source: Fisheries departments for artisanal and semi-industrial fleet; FAO [1988, 1991] for industrial fleet.

3. Food balance sheet: this category assesses fish supply and apparent consumption based on fish production, imports and exports, and population data. Although generally relevant, non-food uses and changes in stocks have not been taken into consideration by lack of data. All the calculations have been made in terms of live weight equivalent. The contribution of fish to total animal protein supply is also indicated.
Source: Laureti [1992]

It is to be noted that significant differences exist for some countries/years between the total production estimates reported under the data group 1 and 3. This stems mostly from the fact that official, fisheries department and FAO data, although similar in principle, are subject to periodic revision which are not systematically accounted for.

In the following tables presenting fish production by species group, the different species are grouped as indicated below:

Rastrineobola: Production of *Rastrineobola argentea* endemic to Lake Victoria.

Engraulicypris: Production of *Engraulicypris sardella* endemic to Lake Malawi.

Limnothrissa: Production of *Limnothrissa miodon* endemic to Lake Tanganyika and introduced in Lake Kariba, Lake Kivu, Lake Cahora Bassa and Lake Itezhi-tezhi.

Stolothrissa: Production of *Stolothrissa tanganicae* endemic to Lake Tanganyika.

Lates: Production of *Lates niloticus* found in Lake Victoria and Lake Kyoga (introduced) as well as in Lake Albert, Lake Turkana and smaller lakes of the Northern Rift Valley; and of, *Luciolates stappersii* of Lake Tanganyika as well as other *Lates* species of this lake.

Tilapia: Production of *O. nilotica*, *O. macrochir*, *Tilapia esculenta*, *T. variabilis*, *T. zilii*, and other *Tilapia* species.

Catfish: Production of fish from the order Siluriformes, mainly *Bagrus* spp., *Clarias* spp. and *Synodontis* spp.

2.1. Burundi, B1:

BURUNDI

Fish production by species group (mt*1000/year).

YEAR	1950	1951	1952	1953	1954
Total production	1.0	1.5	3.0	3.2	4.9
Inland waters	1.0	1.5	3.0	3.2	4.9
- Rastrineobola	--	--	--	--	--
- Engraulicypris	--	--	--	--	--
- Limno- & Stolothrissa	1.0	1.5	2.5	3.0	4.0
- Tilapia	--	--	--	--	--
- Lates & Luciolates	0.0	0.0	0.0	0.0	0.3
- Catfish	--	--	--	--	--
- Other	0.0	0.0	0.5	0.2	0.6

YEAR	1955	1956	1957	1958	1959
Total production	5.2	4.9	8.5	10.3	10.1
Inland waters	5.2	4.9	8.5	10.3	10.1
- Rastrineobola	--	--	--	--	--
- Engraulicypris	--	--	--	--	--
- Limno- & Stolothrissa	4.2	3.9	6.7	7.2	7.8
- Tilapia	--	--	--	--	--
- Lates & Luciolates	0.5	0.6	1.3	2.6	1.7
- Catfish	--	--	--	--	--
- Other	0.5	0.4	0.5	0.5	0.5

YEAR	1960	1961	1962	1963	1964
Total production	8.1	5.2	7.2	10.6	10.4
Inland waters	8.1	5.2	7.2	10.6	10.4
- Rastrineobola	--	--	--	--	--
- Engraulicypris	--	--	--	--	--
- Limno- & Stolothrissa	6.2	4.3	5.7	8.8	9.7
- Tilapia	--	--	--	--	--
- Lates & Luciolates	1.4	0.6	1.1	1.5	0.6
- Catfish	--	--	--	--	--
- Other	0.5	0.3	0.4	0.3	0.1

YEAR	1965	1966	1967	1968	1969
Total production	20.2	17.8	13.5	12.3	15.6
Inland waters	20.2	17.8	13.5	12.3	15.6
- Rastrineobola	--	--	--	--	--
- Engraulicypris	--	--	--	--	--
- Limno- & Stolothrissa	19.8	17.0	12.2	10.4	13.5
- Tilapia	--	--	--	--	--
- Lates & Luciolates	0.3	0.6	1.3	1.6	1.8
- Catfish	--	--	--	--	--
- Other	0.1	0.2	0.1	0.3	0.3

2.1. Burundi, B1 continued:

BURUNDI

Fish production by species group (mt*1000/year).

YEAR	1970	1971	1972	1973	1974
Total production	13.3	16.9	7.4	8.5	15.1
Inland waters	13.3	16.9	7.4	8.5	15.1
- Rastrineobola	--	--	--	--	--
- Engraulicypris	--	--	--	--	--
- Limno- & Stolothrissa	11.2	16.2	6.3	7.1	13.7
- Tilapia	--	--	--	--	--
- Lates & Luciolates	2.1	0.7	0.6	1.0	1.1
- Catfish	--	--	--	--	--
- Other	0.0	0.0	0.6	0.4	0.2

YEAR	1975	1976	1977	1978	1979
Total production	17.8	23.8	30.5	25.4	16.5
Inland waters	17.8	23.8	30.5	25.4	16.5
- Rastrineobola	--	--	--	--	--
- Engraulicypris	--	--	--	--	--
- Limno- & Stolothrissa	14.7	17.0	21.9	19.2	12.9
- Tilapia	--	--	--	--	--
- Lates & Luciolates	2.5	4.0	4.1	2.8	2.2
- Catfish	--	--	--	--	--
- Other	0.5	2.9	4.5	3.3	1.4

YEAR	1980	1981	1982	1983	1984
Total production	28.5	16.9	20.1	20.1	21.1
Inland waters	28.5	16.9	18.8	20.0	21.1
- Rastrineobola	--	--	--	--	--
- Engraulicypris	--	--	--	--	--
- Limno- & Stolothrissa	24.9	13.3	15.1	11.3	15.9
- Tilapia	--	--	--	--	--
- Lates & Luciolates	2.3	2.0	2.1	3.7	2.0
- Catfish	--	--	--	--	--
- Other	1.3	1.7	1.5	5.0	2.8

YEAR	1985	1986	1987	1988	1989
Total production	16.7	19.8	15.8	17.0	21.2
Inland waters	16.5	19.8	15.8	17.0	21.2
- Rastrineobola	--	--	--	--	--
- Engraulicypris	--	--	--	--	--
- Limno- & Stolothrissa	13.3	15.4	10.5	12.6	16.9
- Tilapia	--	--	--	--	--
- Lates & Luciolates	1.1	1.8	1.7	1.2	0.8
- Catfish	--	--	--	--	--
- Other	2.4	2.6	3.7	3.2	3.5

2.1. Burundi, B1 continued:

BURUNDI

Fish production by species group (mt*1000/year).

YEAR	1990	1991
Total production	21.5	23.5
Inland waters	21.5	23.5
- Rastrineobola	--	--
- Engraulicypris	--	--
- Limno- & Stolothrissa	18.4	20.3
- Tilapia	--	--
- Lates & Luciolates	0.6	0.5
- Catfish	--	--
- Other	2.5	2.7

2.1. Burundi, B2:

BURUNDI

Fishing fleet.

YEAR	1970	1971	1972	1973	1974
Inland industrial	--	--	--	--	--
Inland semi-industrial	15	13	14	15	18
Inland artisanal	--		231	114	221
Inland traditional	--	--	742	443	591
Total inland	--	--	--	--	--

YEAR	1975	1976	1977	1978	1979
Inland industrial	--	--	--	--	--
Inland semi-industrial	23	19	18	17	21
Inland artisanal	363	511	603	751	488
Inland traditional	758	670	866	1000	706
Total inland	--	--	--	--	--

YEAR	1980	1981	1982	1983	1984
Inland industrial	--	--	--	--	--
Inland semi-industrial	22	22	21	19	20
Inland artisanal	606	568	590	625	602
Inland traditional	372	285	258	255	269
Total inland	--	--	--	--	--

YEAR	1985	1986	1987	1988	1989
Inland industrial	--	--	--	--	--
Inland semi-industrial	17	17	16	16	16
Inland artisanal	613	660	556	582	623
Inland traditional	269	337	341	380	376
Total inland	--	--	--	--	--

2.1. Burundi, B2 continued:

BURUNDI
Fishing fleet.

YEAR.....	1990	1991	1992
Inland industrial.....	--	--	--
Inland semi-industrial...	16	15	14
Inland artisanal	671	645	--
Inland traditional.....	425	408	--
Total inland	1096	1053	--

2.1. Burundi, B3:

BURUNDI
Food balance sheet.

YEAR.....	1961	1962	1963	1964	1965
Fish prod. (mt*1000/yr.).	5.3	7.2	10.6	9.7	20.2
Imports (mt*1000/yr.)....	...	...	...	...	...
Exports (mt*1000/yr.)....	0.0	0.0	0.0	0.0	0.0
Tot. supply (mt*1000/yr.)	5.3	7.2	10.6	9.7	20.2
Population (thousands)...	3007	3059	3111	3165	3224
Caput supply (Kg/year)...	1.8	2.4	3.4	3.1	6.3
Caput fish protein (g/day)	0.5	0.7	1.0	0.9	1.8
Animal protein (g/day)...	2.8	3.1	3.4	3.3	4.4
Fish/animal protein (%)..	17.8	22.0	29.8	26.8	41.9

YEAR.....	1966	1967	1968	1969	1970
Fish prod. (mt*1000/yr.).	16.6	12.3	11.0	15.6	13.3
Imports (mt*1000/yr.)....	...	...	...	...	1.0
Exports (mt*1000/yr.)....	0.0	0.0	0.0	0.0	0.0
Tot. supply (mt*1000/yr.)	16.6	12.3	11.0	15.6	14.3
Population (thousands)...	3287	3353	3417	3475	3522
Caput supply (Kg/year)...	5.0	3.7	3.2	4.5	4.1
Caput fish protein (g/day)	1.5	1.1	0.9	1.3	1.2
Animal protein (g/day)...	4.1	3.9	3.8	4.4	4.3
Fish/animal protein (%)..	36.1	27.7	24.2	29.6	27.5

YEAR.....	1971	1972	1973	1974	1975
Fish prod. (mt*1000/yr.).	16.9	7.5	8.5	10.9	14.5
Imports (mt*1000/yr.)....	1.2	0.5	1.7	1.0	0.7
Exports (mt*1000/yr.)....	0.0	0.0	0.0	0.0	0.0
Tot. supply (mt*1000/yr.)	18.1	8.0	10.2	11.9	15.2
Population (thousands)...	3556	3580	3603	3633	3680
Caput supply (Kg/year)...	5.1	2.3	2.8	3.3	4.2
Caput fish protein (g/day)	1.5	0.7	0.8	1.0	1.2
Animal protein (g/day)...	4.6	4.0	4.3	4.6	4.9
Fish/animal protein (%)..	32.2	16.5	19.4	20.9	24.3

2.1. Burundi, B3 continued:

BURUNDI
Food balance sheet.

YEAR.....	1976	1977	1978	1979	1980
Fish prod. (mt*1000/yr.).	20.3	18.9	15.6	11.2	14.7
Imports (mt*1000/yr.)....	0.1	0.3	0.0	0.4	0.7
Exports (mt*1000/yr.)....	0.0	0.0	0.0	0.0	0.0
Tot. supply (mt*1000/yr.)	20.4	19.2	15.7	11.6	15.5
Population (thousands)...	3745	3827	3922	4025	4132
Caput supply (Kg/year)...	5.4	5.0	4.0	2.9	3.8
Caput fish protein (g/day)	1.6	1.5	1.2	0.9	1.1
Animal protein (g/day)...	5.4	5.1	4.8	4.6	4.4
Fish/animal protein (%)..	30.2	29.3	24.9	19.0	25.7

YEAR.....	1981	1982	1983	1984	1985
Fish prod. (mt*1000/yr.).	11.8	12.1	11.3	11.3	11.3
Imports (mt*1000/yr.)....	0.9	1.0	1.1	1.0	0.4
Exports (mt*1000/yr.)....	0.0	0.0	0.0	0.0	0.0
Tot. supply (mt*1000/yr.)	12.7	13.1	12.5	12.4	11.8
Population (thousands)...	4242	4356	4475	4600	4731
Caput supply (Kg/year)...	3.0	3.0	2.8	2.7	2.5
Caput fish protein (g/day)	0.9	0.9	0.8	0.8	0.8
Animal protein (g/day)...	3.6	3.8	3.6	3.9	3.5
Fish/animal protein (%)..	25.4	24.0	23.5	20.8	21.3

YEAR.....	1986	1987	1988	1989	1990
Fish prod. (mt*1000/yr.).	11.8	12.0	11.6	11.7	17.3
Imports (mt*1000/yr.)....	0.0	0.0	0.0	0.2	0.1
Exports (mt*1000/yr.)....	0.0	0.0	0.0	0.0	0.0
Tot. supply (mt*1000/yr.)	11.8	12.0	11.7	11.9	17.5
Population (thousands)...	4868	5011	5159	5313	5472
Caput supply (Kg/year)...	2.4	2.4	2.3	2.2	3.2
Caput fish protein (g/day)	0.7	0.7	0.7	0.7	1.0
Animal protein (g/day)...	3.5	3.1	3.3	3.0	3.5
Fish/animal protein (%)..	21.0	23.2	20.6	22.6	27.7

2.2. Ethiopia, B4:

ETHIOPIA

Fish production by species group (mt*1000/year).

YEAR	1970	1971	1972	1973	1974
Total production	17.2	19.1	14.8	4.7	5.9
Marine waters	16.3	18.8	13.8	3.7	4.9
Inland waters	--	--	--	--	1.0
- Rastrineobola	0.9	0.3	1.0	1.0	--
- Engraulicypris	--	--	--	--	--
- Limnothrissa	--	--	--	--	--
- Stolothrissa	--	--	--	--	--
- Tilapia	--	--	--	--	--
- Lates & Luciolates	--	--	--	--	--
- Catfish	--	--	--	--	--
- Other	--	--	--	--	--

YEAR	1975	1976	1977	1978	1979
Total production	3.9	3.0	2.5	2.5	2.8
Marine waters	2.4	1.0	0.2	0.0	0.0
Inland waters	1.5	2.0	2.3	2.5	2.8
- Rastrineobola	--	--	--	--	--
- Engraulicypris	--	--	--	--	--
- Limnothrissa	--	--	--	--	--
- Stolothrissa	--	--	--	--	--
- Tilapia	--	--	--	--	--
- Lates & Luciolates	--	--	--	--	--
- Catfish	--	--	--	--	--
- Other	--	--	--	--	--

YEAR	1980	1981	1982	1983	1984
Total production	3.5	3.8	3.7	3.9	4.3
Marine waters	0.4	0.3	0.3	0.4	0.6
Inland waters	3.1	3.5	3.4	3.5	3.7
- Rastrineobola	--	--	--	--	--
- Engraulicypris	--	--	--	--	--
- Limnothrissa	--	--	--	--	--
- Stolothrissa	--	--	--	--	--
- Tilapia	--	--	--	--	--
- Lates & Luciolates	--	--	--	--	--
- Catfish	--	--	--	--	--
- Other	--	--	--	--	--

2.2. Ethiopia, B4 continued:

ETHIOPIA

Fish production by species group (mt*1000/year).

YEAR	1985	1986	1987	1988	1989/90
Total production	4.0	4.1	4.0	4.0	7.7
Marine waters	0.5	0.6	0.5	0.7	3.4
Aquaculture	3.5	3.5	3.5	3.3	4.3
Inland waters	--	--	--	--	--
- Rastrineobola	--	--	--	--	--
- Engraulicypris	--	--	--	--	--
- Limnothrissa	--	--	--	--	--
- Stolothrissa	--	--	--	--	--
- Tilapia	--	--	--	--	--
- Lates & Luciolates	--	--	--	--	--
- Catfish	--	--	--	--	--
- Other	--	--	--	--	--

1989/90 - Source: Curr (1991)

2.2. Ethiopia, B5:

ETHIOPIA

Food balance sheet.

YEAR	1961	1962	1963	1964	1965
Fish prod. (mt*1000/yr.)	17.2	14.0	8.9	11.7	15.7
Imports (mt*1000/yr.)	...	...	...	...	0.4
Exports (mt*1000/yr.)	8.7	2.1	3.0	1.8	2.9
Tot. supply (mt*1000/yr.)	3.9	7.8	1.2	2.1	8.0
Population (thousands)	24763	25332	25915	26519	27150
Caput supply (Kg/year)	0.2	0.3	0.0	0.1	0.3
Caput fish protein (g/day)	0.1	0.1	0.0	0.0	0.1
Animal protein (g/day)	12.0	12.1	11.6	11.5	11.4
Fish/animal protein (%)	0.4	0.8	0.1	0.2	0.8

YEAR	1966	1967	1968	1969	1970
Fish prod. (mt*1000/yr.)	12.8	10.8	13.0	15.0	17.2
Imports (mt*1000/yr.)	0.6	0.6	0.6	0.6	0.8
Exports (mt*1000/yr.)	4.1	3.3	3.0	5.7	5.9
Tot. supply (mt*1000/yr.)	4.6	3.5	9.6	7.2	8.1
Population (thousands)	27810	28495	29198	29910	30623
Caput supply (Kg/year)	0.2	0.1	0.3	0.2	0.3
Caput fish protein (g/day)	0.1	0.1	0.1	0.1	0.1
Animal protein (g/day)	11.4	11.3	11.3	11.2	11.2
Fish/animal protein (%)	0.5	0.5	0.8	0.6	0.6

2.2. Ethiopia, B5 continued:

ETHIOPIA
Food balance sheet.

YEAR.....	1971	1972	1973	1974	1975
Fish prod. (mt*1000/yr.).	19.1	14.8	4.7	5.9	3.9
Imports (mt*1000/yr.)....	0.4	0.6	1.4	1.1	1.1
Exports (mt*1000/yr.)....	4.9	7.4	1.2	0.5	2.9
Tot. supply (mt*1000/yr.)	7.2	6.5	5.3	5.2	3.3
Population (thousands)...	31332	32041	32762	33514	34309
Caput supply (Kg/year)...	0.2	0.2	0.2	0.2	0.1
Caput fish protein (g/day)	0.1	0.1	0.0	0.0	0.0
Animal protein (g/day)...	10.0	9.7	9.5	9.5	9.1
Fish/animal protein (%)..	0.6	0.5	0.5	0.5	0.3

YEAR.....	1976	1977	1978	1979	1980
Fish prod. (mt*1000/yr.).	2.9	2.4	2.5	2.8	3.5
Imports (mt*1000/yr.)....	0.6	1.0	0.6	0.0	0.0
Exports (mt*1000/yr.)....	0.6	0.2	0.0	0.0	0.0
Tot. supply (mt*1000/yr.)	3.7	3.7	3.2	2.8	3.5
Population (thousands)...	35155	36048	36964	37872	38750
Caput supply (Kg/year)...	0.1	0.1	0.1	0.1	0.1
Caput fish protein (g/day)	0.0	0.0	0.0	0.0	0.0
Animal protein (g/day)...	9.0	9.0	9.1	9.1	9.0
Fish/animal protein (%)..	0.3	0.3	0.3	0.2	0.3

YEAR.....	1981	1982	1983	1984	1985
Fish prod. (mt*1000/yr.).	3.8	3.7	3.9	4.3	4.0
Imports (mt*1000/yr.)....	0.1	0.0	0.0	0.0	0.1
Exports (mt*1000/yr.)....	0.0	0.0	0.0	0.0	0.0
Tot. supply (mt*1000/yr.)	3.9	3.7	3.9	4.2	4.1
Population (thousands)...	39591	40409	41236	42116	43083
Caput supply (Kg/year)...	0.1	0.1	0.1	0.1	0.1
Caput fish protein (g/day)	0.0	0.0	0.0	0.0	0.0
Animal protein (g/day)...	9.0	8.9	8.9	8.6	9.4
Fish/animal protein (%)..	0.3	0.3	0.3	0.4	0.3

YEAR.....	1986	1987	1988	1989	1990
Fish prod. (mt*1000/yr.).	4.1	4.0	4.0	4.2	5.0
Imports (mt*1000/yr.)....	0.0	0.0	0.0	0.0	0.0
Exports (mt*1000/yr.)....	0.0	0.0	0.0	0.0	0.0
Tot. supply (mt*1000/yr.)	4.0	4.0	4.1	4.2	5.0
Population (thousands)...	44149	45312	46558	47870	49240
Caput supply (Kg/year)...	0.1	0.1	0.1	0.1	0.1
Caput fish protein (g/day)	0.0	0.0	0.0	0.0	0.0
Animal protein (g/day)...	9.6	8.0	8.1	8.2	8.1
Fish/animal protein (%)..	0.3	0.3	0.3	0.3	0.4

2.3. Kenya, B6:

KENYA

Fish production by species group (mt*1000/year) 1/

YEAR	1970	1971	1972	1973	1974
Total production	33.6	28.1	29.9	28.9	28.6
Marine waters	7.9	7.0	7.6	4.0	3.4
Aquaculture	--	--	--	--	--
Inland waters	25.7	21.1	22.3	24.9	25.2
- Rastrineobola	0.5	1.4	1.3	1.8	3.7
- Engraulicypris	--	--	--	--	--
- Limnothrissa	--	--	--	--	--
- Stolothrissa	--	--	--	--	--
- Tilapia	6.1	3.1	2.6	2.7	1.9
- Lates & Luciolates	0.0	0.1	0.0	0.2	0.1
- Catfish	2.8	4.0	3.8	4.7	4.2
- Other	16.4	12.5	14.6	15.5	15.3

YEAR	1975	1976	1977	1978	1979
Total production	27.3	41.0	41.0	46.4	50.4
Marine waters	4.6	4.1	4.4	4.6	4.0
Aquaculture	--	--	0.5	0.6	0.6
Inland waters	22.7	36.9	36.1	41.2	45.8
- Rastrineobola	5.4	5.7	6.7	8.7	9.3
- Engraulicypris	--	--	--	--	--
- Limnothrissa	--	--	--	--	--
- Stolothrissa	--	--	--	--	--
- Tilapia	1.7	1.9	2.3	4.0	4.1
- Lates & Luciolates	0.1	0.1	0.2	1.1	4.3
- Catfish	4.5	3.9	3.4	2.4	5.5
- Other	12.0	25.3	23.5	25.0	22.7

YEAR	1980	1981	1982	1983	1984
Total production	48.2	57.4	81.5	98.1	91.0
Marine waters	5.3	6.0	7.6	7.2	6.1
Aquaculture	0.6	0.4	0.4	0.6	0.7
Inland waters	42.3	51.0	73.5	90.3	84.2
- Rastrineobola	9.4	7.6	10.4	16.4	19.4
- Engraulicypris	--	--	--	--	--
- Limnothrissa	--	--	--	--	--
- Stolothrissa	--	--	--	--	--
- Tilapia	6.3	5.6	6.9	9.0	11.6
- Lates & Luciolates	4.3	22.8	33.1	55.6	44.8
- Catfish	2.9	1.9	4.8	2.0	1.0
- Other	19.4	13.1	18.3	7.3	7.4

1/ Source: Department of Fisheries Kenya

2.3. Kenya, B6 continued:

KENYA

Fish production by species group (mt*1000/year).

YEAR	1985	1986	1987	1988	1989
- Total production	106.0	120.0	131.2	138.1	146.4
- Marine waters	6.2	6.0	7.7	7.1	7.6
- Aquaculture	1.1	1.0	1.1	1.1	0.9
- Inland waters	98.7	113.0	122.4	129.9	137.9
- Rastrineobola	25.6	34.5	33.1	40.9	45.5
- Engraulicypris	--	--	--	--	--
- Limnothrissa	--	--	--	--	--
- Stolothrissa	--	--	--	--	--
- Tilapia	11.6	12.2	13.1	18.7	19.4
- Lates & Luciolates	53.0	58.8	70.4	62.6	56.9
- Catfish	0.7	1.8	2.2	1.0	7.0
- Other	7.8	5.7	3.6	6.7	9.1

YEAR	1990	1991
Total production	201.8	198.6
Marine waters	10.0	7.5
Aquaculture	1.0	1.0
Inland waters	190.8	190.1
- Rastrineobola	46.7	58.1
- Engraulicypris	--	--
- Limnothrissa	--	--
- Stolothrissa	--	--
- Tilapia	41.9	49.3
- Lates & Luciolates	71.9	57.3
- Catfish	9.7	9.0
- Other	18.8	16.4

2.3. Kenya, B7:

KENYA

Fishing fleet.

YEAR	1981	1982	1983	1984	1985
Marine industrial	19	19	19	21	21
Marine artisanal	3900	3900	4200	4450	4500
Inland industrial	--	--	--	--	--
Inland semi-industrial	--	--	--	--	--
Inland artisanal	5216	5419	5557	5682	5884
Total inland	--	--	--	--	--

YEAR	1986	1987	1988	1989
Marine industrial	21	21	21	22
Marine artisanal	4500	4000	4000	4500
Inland industrial	--	--	--	--
Inland semi-industrial	--	--	--	--
Inland artisanal	5361	5380	5257	5860
Total inland	--	--	--	--

2.3. Kenya, B8:

KENYA
Food balance sheet 1/

YEAR.....	1961	1962	1963	1964	1965
Fish prod. (mt*1000/yr.).	13.5	18.4	20.1	20.7	23.0
Imports (mt*1000/yr.)....	1.7	1.8	1.6	2.4	2.3
Exports (mt*1000/yr.)....	0.0	0.0	0.0	0.2	0.3
Tot. supply (mt*1000/yr.)	15.2	20.2	21.7	22.8	25.4
Population (thousands)...	8603	8877	9157	9447	9749
Caput supply (Kg/year)...	1.8	2.3	2.4	2.4	2.6
Caput fish protein (g/day)	0.5	0.7	0.8	0.8	0.8
Animal protein (g/day)...	15.8	15.2	14.0	14.6	15.0
Fish/animal protein (%)..	3.2	4.4	5.4	5.2	5.0

YEAR.....	1966	1967	1968	1969	1970
Fish prod. (mt*1000/yr.).	27.9	27.3	28.0	31.8	33.6
Imports (mt*1000/yr.)....	1.4	0.6	0.4	0.4	9.5
Exports (mt*1000/yr.)....	0.0	0.0	0.7	0.6	4.9
Tot. supply (mt*1000/yr.)	29.3	27.9	27.6	31.5	38.1
Population (thousands)...	10066	10398	10747	11114	11498
Caput supply (Kg/year)...	2.9	2.7	2.6	2.8	3.3
Caput fish protein (g/day)	0.8	0.8	0.7	0.8	1.0
Animal protein (g/day)...	14.6	14.2	14.3	14.2	14.6
Fish/animal protein (%)..	5.8	5.5	5.2	5.8	6.8

YEAR.....	1971	1972	1973	1974	1975
Fish prod. (mt*1000/yr.).	28.2	29.9	28.8	28.4	27.2
Imports (mt*1000/yr.)....	4.3	4.4	5.9	8.9	4.9
Exports (mt*1000/yr.)....	7.3	5.3	6.5	4.8	4.4
Tot. supply (mt*1000/yr.)	25.2	28.9	28.2	32.6	27.7
Population (thousands)...	11901	12325	12772	13243	13741
Caput supply (Kg/year)...	2.1	2.3	2.2	2.5	2.0
Caput fish protein (g/day)	0.7	0.7	0.7	0.7	0.6
Animal protein (g/day)...	14.8	14.4	13.7	13.6	13.2
Fish/animal protein (%)..	4.6	4.8	4.8	5.4	4.5

YEAR.....	1976	1977	1978	1979	1980
Fish prod. (mt*1000/yr.).	40.9	42.7	46.3	51.7	47.7
Imports (mt*1000/yr.)....	3.4	1.9	1.6	1.9	1.5
Exports (mt*1000/yr.)....	1.1	0.9	1.1	2.5	1.2
Tot. supply (mt*1000/yr.)	43.3	43.7	46.8	51.1	47.9
Population (thousands)...	14267	14820	15400	16004	16632
Caput supply (Kg/year)...	3.0	3.0	3.0	3.2	2.9
Caput fish protein (g/day)	0.9	0.9	0.9	0.9	0.8
Animal protein (g/day)...	13.3	15.1	15.4	15.5	14.8
Fish/animal protein (%)..	6.7	5.8	5.8	6.1	5.7

1/ Source: Laureti 1992

2.3. Kenya, B8 continued:

YEAR.....	1981	1982	1983	1984	1985
Fish prod. (mt*1000/yr.).	57.7	81.5	98.1	90.9	105.9
Imports (mt*1000/yr.)....	0.8	0.7	1.1	0.5	0.7
Exports (mt*1000/yr.)....	3.0	1.8	1.7	0.8	1.6
Tot. supply (mt*1000/yr.)	55.4	80.4	97.5	90.6	105.1
Population (thousands)...	17284	17960	18657	19370	20097
Caput supply (Kg/year)...	3.2	4.5	5.2	4.7	5.2
Caput fish protein (g/day)	0.9	1.3	1.5	1.4	1.5
Animal protein (g/day)...	13.5	14.7	14.2	15.0	15.3
Fish/animal protein (%)..	7.0	9.0	10.8	9.1	10.0

YEAR.....	1986	1987	1988	1989	1990
Fish prod. (mt*1000/yr.).	119.7	131.1	138.1	146.4	142.4
Imports (mt*1000/yr.)....	0.6	0.3	0.3	0.3	0.4
Exports (mt*1000/yr.)....	2.4	7.1	11.9	14.3	15.4
Tot. supply (mt*1000/yr.)	118.0	124.3	126.4	132.4	127.3
Population (thousands)...	20837	21595	22375	23185	24031
Caput supply (Kg/year)...	5.7	5.8	5.7	5.7	5.3
Caput fish protein (g/day)	1.7	1.7	1.7	1.7	1.6
Animal protein (g/day)...	16.5	17.5	18.1	17.9	19.0
Fish/animal protein (%)..	10.1	9.7	9.3	9.5	8.3

2.4. Malawi, B9:

MALAWI

Fish production by species group (mt*1000/year).

YEAR.....	1970	1971	1972	1973	1974
Total production.....	66.2	73.2	84.1	69.3	70.3
Inland waters.....	66.2	73.2	84.1	69.3	70.3
- Rastrineobola.....	--	--	--	--	--
- Engraulicypris.....	--	--	--	--	--
- Limnothrissa.....	--	--	--	--	--
- Stolothrissa.....	--	--	--	--	--
- Tilapia.....	--	--	--	28.1	11.6
- Lates & Luciolates.....	--	--	--	--	--
- Catfish.....	--	--	--	--	--
- Other.....	--	--	--	41.2	58.7

YEAR.....	1975	1976	1977	1978	1979
Total production.....	71.0	74.9	68.2	67.8	60.0
Inland waters.....	71.0	74.9	68.2	67.8	60.0
- Rastrineobola.....	--	--	--	--	--
- Engraulicypris.....	--	--	--	--	--
- Limnothrissa.....	--	--	--	--	--
- Stolothrissa.....	--	--	--	--	--
- Tilapia.....	12.0	17.0	19.3	23.2	19.2
- Lates & Luciolates.....	--	--	--	--	--
- Catfish.....	--	--	--	--	--
- Other.....	59.0	57.9	48.9	44.6	40.8

2.4. Malawi, B9 continued:

MALAWI

Fish production by species group (mt*1000/year).

YEAR	1980	1981	1982	1983	1984
Total production	65.8	51.4	52.4	67.0	65.1
Inland waters	65.8	51.4	52.4	67.0	65.1
- Rastrineobola	--	--	--	--	--
- Engraulicypris	--	--	--	--	--
- Limnothrissa	--	--	--	--	--
- Stolothrissa	--	--	--	--	--
- Tilapia	24.9	18.6	25.2	19.5	24.1
- Lates & Luciolates	--	--	--	--	--
- Catfish	--	--	--	--	--
- Other	40.9	32.7	33.2	47.5	40.9

YEAR	1985	1986	1987
Total production	62.1	72.9	88.6
Inland waters	62.1	72.9	88.6
- Rastrineobola	--	--	--
- Engraulicypris	--	--	--
- Limnothrissa	--	--	--
- Stolothrissa	--	--	--
- Tilapia	23.1	21.3	15.7
- Lates & Luciolates	--	--	--
- Catfish	--	--	--
- Other	39.0	51.6	72.9

2.4. Malawi, B10:

MALAWI

Fishing fleet.

YEAR	1974	1975	1976	1977	1978
Inland industrial	--	--	--	--	--
Inland semi-industrial	--	--	--	--	--
Inland artisanal	7024	4380	3391	7464	5437
Total inland	--	--	--	--	--

YEAR	1979	1980	1984	1986	1987
Inland industrial	--	--	--	--	--
Inland semi-industrial	--	--	--	--	--
Inland artisanal	--	5206	4262	4567	10985
Total inland	--	--	--	--	--

2.4. Malawi, B11:

MALAWI
Food balance sheet.

YEAR.....	1961	1962	1963	1964	1965
Fish prod. (mt*1000/yr.).	45.0	45.0	48.0	50.0	50.0
Imports (mt*1000/yr.)....	0.2	0.2	0.2	0.2	0.2
Exports (mt*1000/yr.)....	0.3	0.3	0.3	0.3	0.3
Tot. supply (mt*1000/yr.)	44.9	44.9	47.9	49.9	49.9
Population (thousands)...	3615	3702	3791	3881	3975
Caput supply (Kg/year)...	12.4	12.1	12.6	12.9	12.6
Caput fish protein (g/day)	3.7	3.6	3.8	3.8	3.7
Animal protein (g/day)...	5.7	5.6	5.9	6.0	6.0
Fish/animal protein (%)..	65.1	64.0	63.7	63.8	62.4

YEAR.....	1966	1967	1968	1969	1970
Fish prod. (mt*1000/yr.).	55.0	55.0	60.0	63.0	66.2
Imports (mt*1000/yr.)....	0.2	0.7	0.7	1.4	1.4
Exports (mt*1000/yr.)....	0.3	0.3	0.4	1.4	2.2
Tot. supply (mt*1000/yr.)	54.9	55.4	60.3	63.0	65.4
Population (thousands)...	4072	4174	4282	4397	4518
Caput supply (Kg/year)...	13.5	13.3	14.1	14.3	14.5
Caput fish protein (g/day)	4.0	3.9	4.2	4.2	4.3
Animal protein (g/day)...	6.2	6.4	6.7	7.3	7.3
Fish/animal protein (%)..	64.2	61.1	62.0	58.5	59.0

YEAR.....	1971	1972	1973	1974	1975
Fish prod. (mt*1000/yr.).	73.2	84.1	69.3	70.2	70.9
Imports (mt*1000/yr.)....	0.8	0.6	0.4	0.8	0.5
Exports (mt*1000/yr.)....	1.9	2.5	2.7	2.1	5.6
Tot. supply (mt*1000/yr.)	72.1	82.2	67.0	68.9	65.8
Population (thousands)...	4647	4784	4929	5082	5244
Caput supply (Kg/year)...	15.5	17.2	13.6	13.6	12.6
Caput fish protein (g/day)	4.6	5.1	4.0	4.0	3.7
Animal protein (g/day)...	7.4	7.9	6.9	6.9	6.6
Fish/animal protein (%)..	61.7	64.3	58.0	57.8	56.2

YEAR.....	1976	1977	1978	1979	1980
Fish prod. (mt*1000/yr.).	74.9	68.2	67.8	60.0	65.7
Imports (mt*1000/yr.)....	0.7	0.2	0.5	0.4	0.4
Exports (mt*1000/yr.)....	2.3	3.1	2.3	3.1	7.3
Tot. supply (mt*1000/yr.)	73.2	65.2	66.0	57.3	58.9
Population (thousands)...	5414	5594	5782	5978	6183
Caput supply (Kg/year)...	13.5	11.7	11.4	9.6	9.5
Caput fish protein (g/day)	4.0	3.4	3.4	2.8	2.8
Animal protein (g/day)...	7.0	6.5	6.7	6.1	6.1
Fish/animal protein (%)..	57.0	52.8	50.4	46.7	46.1

2.4. Malawi, B11 continued:

YEAR.....	1981	1982	1983	1984	1985
Fish prod. (mt*1000/yr.).	51.3	58.4	66.9	65.0	62.0
Imports (mt*1000/yr.)....	0.3	0.4	0.6	0.2	0.3
Exports (mt*1000/yr.)....	4.3	4.2	2.6	0.8	0.7
Tot. supply (mt*1000/yr.)	47.4	54.6	64.9	64.4	61.7
Population (thousands)...	6396	6618	6849	7090	7340
Caput supply (Kg/year)...	7.4	8.3	9.5	9.1	8.4
Caput fish protein (g/day)	2.2	2.4	2.8	2.7	2.5
Animal protein (g/day)...	5.7	6.0	6.0	5.7	5.4
Fish/animal protein (%)..	38.2	40.8	46.2	46.6	45.7

YEAR.....	1986	1987	1988	1989	1990
Fish prod. (mt*1000/yr.).	72.8	88.5	87.9	85.0	80.0
Imports (mt*1000/yr.)....	0.1	0.0	0.3	0.4	0.4
Exports (mt*1000/yr.)....	0.4	0.8	0.5	0.1	0.1
Tot. supply (mt*1000/yr.)	72.5	87.8	87.6	85.3	80.2
Population (thousands)...	7600	7872	8154	8448	8754
Caput supply (Kg/year)...	9.5	11.2	10.8	10.1	9.2
Caput fish protein (g/day)	2.8	3.3	3.2	3.0	2.7
Animal protein (g/day)...	6.1	6.2	6.0	6.0	5.7
Fish/animal protein (%)..	46.1	52.7	52.7	49.8	47.1

2.5. Mozambique, B12:

MOZAMBIQUE

Fish production by species group (mt*1000/year).

YEAR.....	1970	1971	1972	1973	1974
Total production.....	22.6	25.4	25.4	28.3	30.7
Marine waters.....	17.6	20.4	20.4	23.3	25.7
Aquaculture.....	--	--	--	--	--
Inland waters.....	5.0	5.0	5.0	5.0	5.0
- Rastrineobola.....	--	--	--	--	--
- Engraulicypris.....	--	--	--	--	--
- Limnothrissa.....	--	--	--	--	--
- Tilapia.....	--	--	--	--	--
- Lates & Luciolates.....	--	--	--	--	--
- Catfish.....	--	--	--	--	--
- Other.....	--	--	--	--	--

YEAR.....	1975	1976	1977	1978	1979
Total production.....	27.5	29.9	29.0	27.9	30.1
Marine waters.....	22.5	24.9	24.0	22.9	25.1
Aquaculture.....	--	--	--	--	--
Inland waters.....	5.0	5.0	5.0	5.0	5.0
- Rastrineobola.....	--	--	--	--	--
- Engraulicypris.....	--	--	--	--	--
- Limnothrissa.....	--	--	--	--	--
- Tilapia.....	--	--	--	--	--
- Lates & Luciolates.....	--	--	--	--	--
- Catfish.....	--	--	--	--	--
- Other.....	--	--	--	--	--

2.5. Mozambique, B12 continued:

MOZAMBIQUE

Fish production by species group (mt*1000/year).

YEAR	1980	1981	1982	1983	1984
Total production	35.5	42.1	39.7	42.5	35.8
Marine waters	30.5	37.1	34.7	37.5	31.8
Aquaculture	--	--	--	--	--
Inland waters	5.0	5.0	5.0	5.0	4.0
- Rastrineobola	--	--	--	--	--
- Engraulicypris	--	--	--	--	--
- Limnothrissa	--	--	--	--	--
- Stolothrissa	--	--	--	--	--
- Tilapia	--	--	--	--	--
- Lates & Luciolates	--	--	--	--	--
- Catfish	--	--	--	--	--
- Other	--	--	--	--	--

YEAR	1985	1986	1987	1988	1989
Total production	--	89.0	--	--	--
Marine waters	83.1	88.2	87.7	86.6	80.5
Aquaculture	--	--	--	--	--
Inland waters	3.0	0.8	4.0	4.0	4.0
- Rastrineobola	--	--	--	--	--
- Engraulicypris	--	--	--	--	--
- Limnothrissa	--	--	--	--	--
- Stolothrissa	--	--	--	--	--
- Tilapia	--	--	--	--	--
- Lates & Luciolates	--	--	--	--	--
- Catfish	--	--	--	--	--
- Other	--	--	--	--	--

YEAR	1990
Total production	--
Marine waters	82.4
Aquaculture	--
Inland waters	--
- Rastrineobola	--
- Engraulicypris	--
- Limnothrissa	--
- Stolothrissa	--
- Tilapia	--
- Lates & Luciolates	--
- Catfish	--
- Other	--

1985-90, marine, assuming estimated artisanal catch of 62500 tonnes - Source: Tembe (1991)

2.5. Mozambique, B13:

MOZAMBIQUE
Fishing fleet.

YEAR.....	1979	1983	1986	1991
Marine industrial.....	--	76	121	116
Marine semi-industrial...	--	98	--	64
Total artisanal.....	17827	18035	--	--
Marine artisanal.....	16459	--	--	--
Inland semi-industrial...	--	--	--	--
Inland artisanal	1368	--	--	--

1979, -83 & -91 - Source: Tembe (1991)

2.5. Mozambique, B14:

MOZAMBIQUE
Food balance sheet.

YEAR.....	1961	1962	1963	1964	1965
Fish prod. (mt*1000/yr.).	3.3	3.3	3.5	4.4	4.2
Imports (mt*1000/yr.)....	18.9	19.6	18.6	19.3	20.5
Exports (mt*1000/yr.)....	0.6	0.9	1.1	1.4	1.6
Tot. supply (mt*1000/yr.)	21.6	21.9	21.0	22.3	23.1
Population (thousands)...	7638	7806	7975	8151	8338
Caput supply (Kg/year)...	2.8	2.8	2.6	2.7	2.8
Caput fish protein (g/day)	1.0	1.0	0.8	0.9	0.9
Animal protein (g/day)...	4.0	4.1	4.0	4.1	4.2
Fish/animal protein (%)..	25.0	23.8	20.0	21.6	22.4

YEAR.....	1966	1967	1968	1969	1970
Fish prod. (mt*1000/yr.).	5.3	5.0	5.7	7.0	22.6
Imports (mt*1000/yr.)....	22.3	25.0	28.5	30.5	27.4
Exports (mt*1000/yr.)....	1.9	2.5	0.6	0.8	0.9
Tot. supply (mt*1000/yr.)	25.7	27.4	33.6	36.6	49.1
Population (thousands)...	8537	8747	8964	9181	9395
Caput supply (Kg/year)...	3.0	3.1	3.8	4.0	5.2
Caput fish protein (g/day)	0.9	1.0	1.2	1.2	1.6
Animal protein (g/day)...	4.4	4.3	4.6	4.6	5.1
Fish/animal protein (%)..	21.7	22.9	26.2	26.2	31.5

YEAR.....	1971	1972	1973	1974	1975
Fish prod. (mt*1000/yr.).	25.4	25.4	28.3	30.6	27.4
Imports (mt*1000/yr.)....	26.7	20.4	17.5	11.2	9.4
Exports (mt*1000/yr.)....	1.5	2.0	2.7	5.0	5.3
Tot. supply (mt*1000/yr.)	50.6	43.8	43.1	36.9	31.6
Population (thousands)...	9602	9805	10015	10243	10498
Caput supply (Kg/year)...	5.3	4.5	4.3	3.6	3.0
Caput fish protein (g/day)	1.6	1.4	1.3	1.1	0.9
Animal protein (g/day)...	5.1	4.9	4.8	4.5	4.3
Fish/animal protein (%)..	31.8	28.1	26.7	23.2	20.5

2.5. Mozambique, B14 continued:

YEAR.....	1976	1977	1978	1979	1980
Fish prod. (mt*1000/yr.).	29.9	28.9	27.9	30.1	35.3
Imports (mt*1000/yr.)....	6.8	0.0	13.3	18.2	15.7
Exports (mt*1000/yr.)....	3.8	3.0	3.3	3.8	5.0
Tot. supply (mt*1000/yr.)	32.9	25.9	37.9	44.5	46.0
Population (thousands)...	10785	11098	11430	11766	12095
Caput supply (Kg/year)...	3.1	2.3	3.3	3.8	3.8
Caput fish protein (g/day)	1.0	0.8	1.0	1.2	1.3
Animal protein (g/day)...	4.1	4.1	4.8	4.3	4.5
Fish/animal protein (%)..	23.6	18.6	21.5	27.2	28.2

YEAR.....	1981	1982	1983	1984	1985
Fish prod. (mt*1000/yr.).	42.1	39.6	42.5	35.8	36.3
Imports (mt*1000/yr.)....	9.6	15.2	18.3	14.4	11.2
Exports (mt*1000/yr.)....	7.6	5.9	4.8	4.4	5.4
Tot. supply (mt*1000/yr.)	44.1	49.0	55.1	45.8	42.1
Population (thousands)...	12415	12730	13045	13370	13711
Caput supply (Kg/year)...	3.6	3.8	4.2	3.4	3.1
Caput fish protein (g/day)	1.1	1.2	1.3	1.1	1.0
Animal protein (g/day)...	4.3	4.4	4.4	4.5	4.2
Fish/animal protein (%)..	26.4	27.5	30.2	23.8	22.6

YEAR.....	1986	1987	1988	1989	1990
Fish prod. (mt*1000/yr.).	31.9	36.1	33.5	33.3	35.0
Imports (mt*1000/yr.)....	14.0	15.5	17.1	10.5	10.1
Exports (mt*1000/yr.)....	6.8	5.1	6.5	5.1	5.6
Tot. supply (mt*1000/yr.)	40.1	46.5	44.1	38.7	39.5
Population (thousands)...	14071	14449	14841	15244	15656
Caput supply (Kg/year)...	2.9	3.2	3.0	2.5	2.5
Caput fish protein (g/day)	0.9	1.0	0.9	0.8	0.8
Animal protein (g/day)...	4.0	4.5	3.7	3.6	3.6
Fish/animal protein (%)..	21.6	21.3	23.6	21.3	21.2

2.5. Rwanda, B15:

RWANDA

Fish production by species group (mt*1000/year).

YEAR.....	1970	1971	1972	1973	1974
Total production.....	1.5	1.6	0.3	0.8	1.4
Aquaculture.....	--	--	--	--	--
Inland waters.....	1.5	1.6	0.3	0.8	1.4
- Rastrineobola.....	--	--	--	--	--
- Engraulicypris.....	--	--	--	--	--
- Limnothrissa.....	--	--	--	--	--
- Stolothrissa.....	--	--	--	--	--
- Tilapia.....	--	--	--	--	--
- Lates & Luciolates.....	--	--	--	--	--
- Catfish.....	--	--	--	--	--
- Other.....	--	--	--	--	--

2.6. Rwanda, B15 continued:

RWANDA

Fish production by species group (mt*1000/year).

YEAR	1975	1976	1977	1978	1979
Total production	1.2	1.0	1.3	0.7	1.0
Aquaculture	--	--	--	--	--
Inland waters	1.2	1.0	1.3	0.7	1.0
- Rastrineobola	--	--	--	--	--
- Engraulicypris	--	--	--	--	--
- Limnothrissa	--	--	--	--	--
- Stolothrissa	--	--	--	--	--
- Tilapia	--	--	--	--	--
- Lates & Luciolates	--	--	--	--	--
- Catfish	--	--	--	--	--
- Other	--	--	--	--	--

YEAR	1980	1981	1982	1983	1984
Total production	1.2	1.0	1.2	1.2	0.8
Aquaculture	--	--	--	--	--
Inland waters	1.2	1.0	1.2	1.5	1.7
- Rastrineobola	--	--	--	--	--
- Engraulicypris	--	--	--	--	--
- Limnothrissa	--	--	--	--	--
- Stolothrissa	--	--	--	--	--
- Tilapia	--	--	--	--	--
- Lates & Luciolates	--	--	--	--	--
- Catfish	--	--	--	--	--
- Other	--	--	--	--	--

YEAR	1985	1986	1987	1988
Total production	0.9	1.5	1.6	1.3
Aquaculture	--	--	--	--
Inland waters	2.0	2.0	2.6	2.4
- Rastrineobola	--	--	--	--
- Engraulicypris	--	--	--	--
- Limnothrissa	--	--	--	--
- Stolothrissa	--	--	--	--
- Tilapia	--	--	--	--
- Lates & Luciolates	--	--	--	--
- Catfish	--	--	--	--
- Other	--	--	--	--

2.6. Rwanda, B16:

RWANDA
Food balance sheet.

YEAR.....	1961	1962	1963	1964	1965
Fish prod. (mt*1000/yr.).	1.0	1.0	1.0	1.2	1.0
Imports (mt*1000/yr.)....	0.0	0.0	0.0	0.2	0.2
Exports (mt*1000/yr.)....	0.0	0.0	0.0	0.0	0.0
Tot. supply (mt*1000/yr.)	1.0	1.0	1.0	1.4	1.2
Population (thousands)...	2821	2905	2994	3087	3183
Caput supply (Kg/year)...	0.4	0.3	0.3	0.5	0.4
Caput fish protein (g/day)	0.1	0.1	0.1	0.1	0.1
Animal protein (g/day)...	2.8	2.8	2.8	2.7	2.6
Fish/animal protein (%)..	3.7	3.7	3.6	4.9	4.3

YEAR.....	1966	1967	1968	1969	1970
Fish prod. (mt*1000/yr.).	1.0	1.0	0.9	1.0	1.5
Imports (mt*1000/yr.)....	0.2	0.0	0.0	0.0	0.0
Exports (mt*1000/yr.)....	0.0	0.0	0.0	0.0	0.0
Tot. supply (mt*1000/yr.)	1.2	1.0	0.9	1.0	1.5
Population (thousands)...	3284	3389	3498	3611	3728
Caput supply (Kg/year)...	0.4	0.3	0.3	0.3	0.4
Caput fish protein (g/day)	0.1	0.1	0.1	0.1	0.1
Animal protein (g/day)...	2.7	2.9	2.8	2.8	2.9
Fish/animal protein (%)..	3.9	3.0	2.8	3.0	4.2

YEAR.....	1971	1972	1973	1974	1975
Fish prod. (mt*1000/yr.).	1.6	0.3	0.8	1.3	1.1
Imports (mt*1000/yr.)....	0.0	0.0	0.2	0.2	0.1
Exports (mt*1000/yr.)....	0.0	0.0	0.0	0.0	0.0
Tot. supply (mt*1000/yr.)	1.6	0.3	1.0	1.5	1.3
Population (thousands)...	3851	3977	4108	4244	4384
Caput supply (Kg/year)...	0.4	0.1	0.2	0.4	0.3
Caput fish protein (g/day)	0.1	0.0	0.1	0.1	0.1
Animal protein (g/day)...	2.8	2.6	2.8	2.8	3.0
Fish/animal protein (%)..	4.5	0.9	2.6	3.9	3.0

YEAR.....	1976	1977	1978	1979	1980
Fish prod. (mt*1000/yr.).	1.0	1.3	0.7	0.9	1.2
Imports (mt*1000/yr.)....	0.0	0.1	0.0	0.1	0.6
Exports (mt*1000/yr.)....	0.0	0.0	0.0	0.0	0.0
Tot. supply (mt*1000/yr.)	1.0	1.4	0.8	1.1	1.8
Population (thousands)...	4529	4679	4835	4996	5163
Caput supply (Kg/year)...	0.2	0.3	0.2	0.2	0.4
Caput fish protein (g/day)	0.1	0.1	0.1	0.1	0.1
Animal protein (g/day)...	3.1	3.4	3.7	3.5	4.0
Fish/animal protein (%)..	2.3	2.7	1.4	1.9	2.9

2.6. Rwanda, B16 continued:

YEAR.....	1981	1982	1983	1984	1985
Fish prod. (mt*1000/yr.).	0.9	1.2	1.2	0.8	0.9
Imports (mt*1000/yr.)....	0.3	0.1	0.2	0.4	0.9
Exports (mt*1000/yr.)....	0.0	0.0	0.0	0.0	0.0
Tot. supply (mt*1000/yr.)	1.2	1.3	1.4	1.2	1.8
Population (thousands)...	5337	5517	5705	5900	6102
Caput supply (Kg/year)...	0.2	0.2	0.3	0.2	0.3
Caput fish protein (g/day)	0.1	0.1	0.1	0.1	0.1
Animal protein (g/day)...	3.9	3.9	3.7	4.0	4.3
Fish/animal protein (%)..	1.9	1.9	2.1	1.7	2.3

YEAR.....	1986	1987	1988	1989	1990
Fish prod. (mt*1000/yr.).	1.5	1.6	1.3	1.5	2.5
Imports (mt*1000/yr.)....	0.4	1.4	0.4	0.2	0.2
Exports (mt*1000/yr.)....	0.0	0.0	0.0	0.0	0.0
Tot. supply (mt*1000/yr.)	1.9	3.1	1.7	1.7	2.7
Population (thousands)...	6312	6531	6757	6992	7237
Caput supply (Kg/year)...	0.3	0.5	0.3	0.3	0.4
Caput fish protein (g/day)	0.1	0.2	0.1	0.1	0.1
Animal protein (g/day)...	4.2	3.9	3.6	3.6	3.5
Fish/animal protein (%)..	2.3	4.1	2.2	2.2	3.3

2.7. Tanzania, B17:

TANZANIA

Fish production by species group (mt*1000/year).

YEAR.....	1970	1971	1972	1973	1974
Total production.....	186.7	181.8	157.3	167.7	170.9
Marine waters.....	20.3	22.3	29.3	23.0	28.3
Aquaculture.....	--	--	--	--	--
Inland waters.....	166.4	159.5	128.0	144.7	142.6
- Rastrineobola.....	--	--	--	--	--
- Engraulicypris.....	--	--	--	--	--
- Limno- & Stolothrissa..	--	--	--	27.2	51.5
- Tilapia.....	--	--	--	15.7	11.6
- Lates & Luciolates.....	--	--	--	9.3	9.0
- Catfish.....	--	--	--	19.8	15.7
- Other.....	--	--	--	72.7	54.8

YEAR.....	1975	1976	1977	1978	1979
Total production.....	211.5	240.8	270.9	211.1	180.3
Marine waters.....	51.1	50.0	47.0	47.3	33.8
Aquaculture.....	--	--	--	--	--
Inland waters.....	160.4	190.9	223.9	163.8	146.4
- Rastrineobola.....	--	--	--	--	--
- Engraulicypris.....	--	--	--	--	--
- Limno- & Stolothrissa..	37.0	76.1	91.3	80.9	31.6
- Tilapia.....	12.4	34.7	16.0	3.2	12.3
- Lates & Luciolates.....	8.0	4.2	3.8	2.0	7.9
- Catfish.....	13.1	21.7	19.1	13.2	16.0
- Other.....	89.9	54.2	93.6	64.4	78.6

2.7. Tanzania, B17 continued:

TANZANIA

Fish production by species group (mt*1000/year).

YEAR	1980	1981	1982	1983	1984
Total production	247.3	230.7	227.7	239.2	277.3
Marine waters	49.2	38.9	27.0	33.5	40.0
Aquaculture	--	--	--	--	--
Inland waters	189.9	191.8	200.7	205.7	237.3
- Rastrineobola	--	--	--	--	--
- Engraulicypris	--	--	--	--	--
- Limno- & Stolothrissa	81.9	59.5	45.8	48.0	77.3
- Tilapia	13.1	31.8	17.8	25.7	23.3
- Lates & Luciolates	2.3	3.3	3.9	21.6	46.8
- Catfish	16.7	17.8	17.2	23.7	21.3
- Other	84.1	79.4	116.0	86.7	68.6

YEAR	1985	1986	1987	1988	1989
Total production	300.6	309.9	342.3	396.9	377.8
Marine waters	42.7	44.1	38.9	49.4	50.2
Aquaculture	--	--	--	--	--
Inland waters	257.9	265.8	303.4	347.5	327.5
- Rastrineobola	--	--	--	--	--
- Engraulicypris	--	--	--	--	--
- Limno- & Stolothrissa	82.5	85.0	--	--	--
- Tilapia	22.4	23.1	--	--	--
- Lates & Luciolates	43.4	44.8	--	--	--
- Catfish	19.6	20.3	--	--	--
- Other	89.9	92.6	--	--	--

2.7. Tanzania, B18:

TANZANIA

Fishing fleet.

YEAR	1970	1975	1980	1984	1985
Marine industrial	10	22	33	--	37
Marine artisanal	--	--	--	--	3045
Inland industrial	--	--	--	6	10
Inland semi-industrial	--	--	--	--	--
Inland artisanal	--	--	--	--	17924
Total inland	--	--	--	--	--

YEAR	1986	1987	1988	1989
Marine industrial	42	50	54	49
Marine artisanal	3690	3595	4390	4399
Inland industrial	11	13	13	23
Inland semi-industrial	--	--	--	--
Inland artisanal	18712	17988	17627	21005
Total inland	--	--	--	--

2.7. Tanzania, B19:

TANZANIA
Food balance sheet.

YEAR.....	1961	1962	1963	1964	1965
Fish prod. (mt*1000/yr.).	70.4	69.0	82.0	99.8	102.7
Imports (mt*1000/yr.)....	2.9	3.4	3.9	3.3	4.1
Exports (mt*1000/yr.)....	5.9	6.6	6.0	5.5	6.1
Tot. supply (mt*1000/yr.)	66.4	64.7	79.2	96.8	99.8
Population (thousands)...	10307	10605	10918	11245	11586
Caput supply (Kg/year)...	6.4	6.1	7.3	8.6	8.6
Caput fish protein (g/day)	1.9	1.8	2.1	2.5	2.5
Animal protein (g/day)...	9.5	9.3	9.6	9.9	9.9
Fish/animal protein (%)..	20.0	19.3	22.1	25.6	25.8

YEAR.....	1966	1967	1968	1969	1970
Fish prod. (mt*1000/yr.).	101.7	128.0	151.5	149.5	186.7
Imports (mt*1000/yr.)....	4.2	4.8	5.9	4.9	5.1
Exports (mt*1000/yr.)....	7.0	6.1	7.6	13.1	25.4
Tot. supply (mt*1000/yr.)	98.2	126.0	148.8	139.9	166.0
Population (thousands)...	11940	12309	12693	13094	13513
Caput supply (Kg/year)...	8.2	10.2	11.7	10.7	12.3
Caput fish protein (g/day)	2.4	3.0	3.5	3.2	3.6
Animal protein (g/day)...	10.1	11.0	11.2	11.1	11.6
Fish/animal protein (%)..	24.0	27.2	30.9	28.4	30.9

YEAR.....	1971	1972	1973	1974	1975
Fish prod. (mt*1000/yr.).	181.8	157.3	162.2	174.0	211.0
Imports (mt*1000/yr.)....	6.1	4.6	7.0	5.0	4.6
Exports (mt*1000/yr.)....	12.8	6.9	4.3	2.2	0.9
Tot. supply (mt*1000/yr.)	175.0	154.8	164.8	176.8	214.6
Population (thousands)...	13950	14408	14886	15383	15900
Caput supply (Kg/year)...	12.5	10.7	11.1	11.5	13.5
Caput fish protein (g/day)	3.7	3.2	3.2	3.4	3.9
Animal protein (g/day)...	11.6	10.5	10.5	10.5	11.4
Fish/animal protein (%)..	31.8	29.9	30.7	31.8	34.6

YEAR.....	1976	1977	1978	1979	1980
Fish prod. (mt*1000/yr.).	232.3	271.3	211.3	180.6	227.8
Imports (mt*1000/yr.)....	3.9	0.9	1.6	0.6	1.2
Exports (mt*1000/yr.)....	0.5	0.4	0.2	0.4	0.3
Tot. supply (mt*1000/yr.)	235.7	271.8	212.6	180.7	228.7
Population (thousands)...	16438	16997	17584	18206	18867
Caput supply (Kg/year)...	14.3	16.0	12.1	9.9	12.1
Caput fish protein (g/day)	4.1	4.6	3.5	2.9	3.5
Animal protein (g/day)...	11.6	12.4	11.4	10.4	10.4
Fish/animal protein (%)..	35.5	37.2	30.5	27.5	33.5

2.7. Tanzania, B19 continued:

YEAR.....	1981	1982	1983	1984	1985
Fish prod. (mt*1000/yr.).	230.6	227.7	239.1	277.2	300.6
Imports (mt*1000/yr.)....	1.4	0.7	0.3	0.3	0.3
Exports (mt*1000/yr.)....	0.2	0.1	0.9	0.6	0.4
Tot. supply (mt*1000/yr.)	231.8	228.3	238.5	276.8	300.5
Population (thousands)...	19573	20320	21104	21916	22748
Caput supply (Kg/year)...	11.8	11.2	11.3	12.6	13.2
Caput fish protein (g/day)	3.4	3.3	3.3	3.7	3.8
Animal protein (g/day)...	10.7	10.5	10.2	10.5	10.9
Fish/animal protein (%)..	32.0	31.3	32.2	34.9	35.3

YEAR.....	1986	1987	1988	1989	1990
Fish prod. (mt*1000/yr.).	309.8	342.3	392.9	377.0	377.0
Imports (mt*1000/yr.)....	0.3	0.2	0.2	0.4	0.3
Exports (mt*1000/yr.)....	0.4	0.8	0.6	1.0	1.2
Tot. supply (mt*1000/yr.)	309.7	341.7	392.5	376.5	376.1
Population (thousands)...	23602	24479	25387	26331	27318
Caput supply (Kg/year)...	13.1	14.0	15.5	14.3	13.8
Caput fish protein (g/day)	3.8	4.0	4.5	4.1	4.0
Animal protein (g/day)...	10.9	10.9	11.4	11.0	10.6
Fish/animal protein (%)..	35.0	37.3	39.3	37.7	37.6

2.8. Uganda, B20:

UGANDA

Fish production by species group (mt*1000/year).

YEAR.....	1970	1971	1972	1973	1974
Total production.....	129.0	137.0	166.0	169.5	167.5
Aquaculture.....	--	--	--	--	--
Inland waters.....	147.7	162.3	164.2	169.5	167.5
- Rastrineobola.....	--	--	--	--	--
- Engraulicypris.....	--	--	--	--	--
- Limnothrissa.....	--	--	--	--	--
- Stolothrissa.....	--	--	--	--	--
- Tilapia.....	--	--	--	56.0	59.7
- Lates & Luciolates.....	--	--	--	64.5	64.5
- Catfish.....	--	--	--	--	--
- Other.....	--	--	--	49.0	43.3

YEAR.....	1975	1976	1977	1978	1979
Total production.....	188.0	152.4	219.2	223.8	179.9
Aquaculture.....	--	--	--	--	--
Inland waters.....	173.2	192.6	219.5	222.2	179.9
- Rastrineobola.....	--	--	--	--	--
- Engraulicypris.....	--	--	--	--	--
- Limnothrissa.....	--	--	--	--	--
- Stolothrissa.....	--	--	--	--	--
- Tilapia.....	81.2	58.8	79.1	90.3	59.4
- Lates & Luciolates.....	61.3	55.0	22.3	76.1	69.1
- Catfish.....	--	--	--	20.5	10.8
- Other.....	45.5	38.6	77.2	36.9	40.6

2.8. Uganda, B20 continued:

YEAR.....	1980	1981	1982	1983	1984
Total production.....	165.8	166.6	170.0	172.0	212.2
Aquaculture.....	--	--	--	--	--
Inland waters.....	165.9	167.8	170.0	172.1	199.2
- Rastrineobola.....	--	--	--	--	--
- Engraulicypris.....	--	--	--	--	--
- Limnothrissa.....	--	--	--	--	--
- Stolothrissa.....	--	--	--	--	--
- Tilapia.....	58.3	58.4	45.6	18.3	52.2
- Lates & Luciolates.....	72.5	71.0	95.7	90.6	69.6
- Catfish.....	5.3	3.7	10.3	14.3	51.6
- Other.....	29.8	33.5	18.5	48.9	38.8

YEAR.....	1985	1986	1987	1988
Total production.....	160.8	197.6	200.0	200.0
Aquaculture.....	--	--	--	--
Inland waters.....	171.1	202.9	167.8	214.3
- Rastrineobola.....	--	--	--	--
- Engraulicypris.....	--	--	--	--
- Limnothrissa.....	--	--	--	--
- Stolothrissa.....	--	--	--	--
- Tilapia.....	39.6	48.6	49.2	--
- Lates & Luciolates.....	52.8	64.8	65.6	--
- Catfish.....	39.1	48.0	48.6	--
- Other.....	29.4	36.2	36.6	--

2.8. Uganda, B21:

UGANDA

Food balance sheet.

YEAR.....	1961	1962	1963	1964	1965
Fish prod. (mt*1000/yr.).	63.3	69.6	69.6	70.5	76.3
Imports (mt*1000/yr.)....	0.2	0.0	0.0	0.2	0.0
Exports (mt*1000/yr.)....	6.4	2.9	0.5	0.5	0.3
Tot. supply (mt*1000/yr.)	57.1	66.5	68.9	69.9	75.8
Population (thousands)...	6823	7097	7391	7708	8047
Caput supply (Kg/year)...	8.4	9.4	9.3	9.1	9.4
Caput fish protein (g/day)	2.5	2.8	2.7	2.6	2.8
Animal protein (g/day)...	11.6	11.2	11.0	10.6	10.6
Fish/animal protein (%)..	21.2	24.5	24.7	24.9	26.1

YEAR.....	1966	1967	1968	1969	1970
Fish prod. (mt*1000/yr.).	83.3	99.6	108.4	125.3	129.0
Imports (mt*1000/yr.)....	0.2	0.9	0.6	0.2	2.2
Exports (mt*1000/yr.)....	2.0	1.5	1.5	1.5	2.4
Tot. supply (mt*1000/yr.)	81.3	98.9	107.5	124.0	128.8
Population (thousands)...	8404	8770	9134	9483	9806
Caput supply (Kg/year)...	9.7	11.3	11.8	13.1	13.1
Caput fish protein (g/day)	2.8	3.3	3.5	3.9	3.9
Animal protein (g/day)...	10.5	10.9	10.7	11.3	11.0
Fish/animal protein (%)..	27.0	30.5	32.4	34.1	35.6

2.8. Uganda, B21 continued:

YEAR.....	1971	1972	1973	1974	1975
Fish prod. (mt*1000/yr.).	137.0	166.0	169.5	167.5	188.0
Imports (mt*1000/yr.)....	3.7	1.2	1.7	1.2	...
Exports (mt*1000/yr.)....	2.0	1.7	1.5	1.0	0.7
Tot. supply (mt*1000/yr.)	138.7	165.5	169.7	167.7	187.2
Population (thousands)...	10098	10364	10619	10886	11183
Caput supply (Kg/year)...	13.7	16.0	16.0	15.4	16.7
Caput fish protein (g/day)	4.1	4.7	4.7	4.5	5.0
Animal protein (g/day)...	11.5	12.0	12.2	12.2	12.6
Fish/animal protein (%)..	35.4	39.3	38.3	37.2	39.3

YEAR.....	1976	1977	1978	1979	1980
Fish prod. (mt*1000/yr.).	152.4	219.2	223.8	179.9	165.8
Imports (mt*1000/yr.)....	...	...	...	...	...
Exports (mt*1000/yr.)....	...	...	...	...	...
Tot. supply (mt*1000/yr.)	152.4	219.2	223.8	179.9	165.8
Population (thousands)...	11514	11876	12268	12683	13120
Caput supply (Kg/year)...	13.2	18.5	18.2	14.2	12.6
Caput fish protein (g/day)	4.0	5.5	5.4	4.2	3.8
Animal protein (g/day)...	11.5	13.2	13.7	12.3	11.6
Fish/animal protein (%)..	34.3	41.6	39.8	34.5	32.5

YEAR.....	1981	1982	1983	1984	1985
Fish prod. (mt*1000/yr.).	166.5	170.0	172.0	212.3	160.8
Imports (mt*1000/yr.)....	...	...	...	...	...
Exports (mt*1000/yr.)....	...	...	...	...	...
Tot. supply (mt*1000/yr.)	166.5	170.0	172.0	212.3	160.8
Population (thousands)...	13577	14058	14564	15093	15647
Caput supply (Kg/year)...	12.3	12.1	11.8	14.1	10.3
Caput fish protein (g/day)	3.7	3.6	3.5	4.2	3.1
Animal protein (g/day)...	11.0	10.7	10.6	11.1	9.9
Fish/animal protein (%)..	33.4	33.7	33.4	37.8	31.1

YEAR.....	1986	1987	1988	1989	1990
Fish prod. (mt*1000/yr.).	197.6	200.0	214.2	212.2	245.2
Imports (mt*1000/yr.)....	...	...	...	...	...
Exports (mt*1000/yr.)....	...	...	...	...	...
Tot. supply (mt*1000/yr.)	197.6	200.0	214.2	212.2	245.2
Population (thousands)...	16224	16827	17455	18111	18794
Caput supply (Kg/year)...	12.2	11.9	12.3	11.7	13.0
Caput fish protein (g/day)	3.6	3.5	3.7	3.5	3.9
Animal protein (g/day)...	9.6	9.1	9.2	9.4	10.2
Fish/animal protein (%)..	38.1	38.9	40.0	37.3	38.3

2.9. Zaire, B22:

ZAIRE

Fish production by species group (mt*1000/year).

YEAR	1970	1971	1972	1973	1974
Total production	136.6	123.9	124.2	156.9	128.8
Marine waters	14.7	12.7	13.0	12.2	13.4
Aquaculture	--	--	--	--	--
Inland waters	121.9	111.2	111.2	144.7	115.4
- Rastrineobola	--	--	--	--	--
- Engraulicypris	--	--	--	--	--
- Limnothrissa	--	--	--	--	--
- Stolothrissa	--	--	--	--	--
- Tilapia	--	--	--	--	--
- Lates & Luciolates	--	--	--	--	--
- Catfish	--	--	--	--	--
- Other	--	--	--	--	--

YEAR	1975	1976	1977	1978	1979
Total production	113.4	117.9	107.0	108.7	115.2
Marine waters	13.4	7.9	2.4	1.1	1.0
Aquaculture	--	--	--	--	--
Inland waters	100.0	110.0	104.6	107.6	114.2
- Rastrineobola	--	--	--	--	--
- Engraulicypris	--	--	--	--	--
- Limnothrissa	--	--	--	--	--
- Stolothrissa	--	--	--	--	--
- Tilapia	--	--	--	--	--
- Lates & Luciolates	--	--	--	--	--
- Catfish	--	--	--	--	--
- Other	--	--	--	--	--

YEAR	1980	1981	1982	1983	1984
Total production	102.4	102.6	100.7	102.0	148.3
Marine waters	0.6	0.6	0.7	1.0	1.9
Aquaculture	--	--	--	--	--
Inland waters	101.8	102.0	100.0	101.0	146.4
- Rastrineobola	--	--	--	--	--
- Engraulicypris	--	--	--	--	--
- Limnothrissa	--	--	--	--	--
- Stolothrissa	--	--	--	--	--
- Tilapia	--	--	--	--	--
- Lates & Luciolates	--	--	--	--	--
- Catfish	--	--	--	--	--
- Other	--	--	--	--	--

2.9. Zaire, B22 continued:

YEAR.....	1985	1986	1987
Total production.....	148.3	166.0	166.0
Marine waters.....	1.9	2.0	2.0
Aquaculture.....	--	--	--
Inland waters.....	146.4	164.0	164.0
- Rastrineobola.....	--	--	--
- Engraulicypris.....	--	--	--
- Limnothrissa.....	--	--	--
- Stolothrissa.....	--	--	--
- Tilapia.....	--	--	--
- Lates & Luciolates.....	--	--	--
- Catfish.....	--	--	--
- Other.....	--	--	--

2.9. Zaire, B23:

ZAIRE
Fishing fleet.

YEAR.....	1975	1980	1985	1986	1987
Marine industrial.....	14	14	19	24	24
Marine artisanal.....	--	--	--	--	--
Inland industrial.....	--	--	--	--	--
Inland semi-industrial...	--	--	--	--	--
Inland artisanal	--	--	--	--	--
Total inland	--	--	--	--	--

YEAR.....	1988	1989
Marine industrial.....	24	24
Marine artisanal.....	--	--
Inland industrial.....	--	--
Inland semi-industrial...	--	--
Inland artisanal	--	--
Total inland	--	--

2.9. Zaire, B24:

ZAIRE
Food balance sheet.

YEAR.....	1961	1962	1963	1964	1965
Fish prod. (mt*1000/yr.).	75.0	79.5	70.0	76.0	82.0
Imports (mt*1000/yr.)....	85.0	83.8	56.1	64.6	69.4
Exports (mt*1000/yr.)....	0.0	0.0	0.0	0.0	0.0
Tot. supply (mt*1000/yr.)	160.0	163.3	126.1	140.6	151.4
Population (thousands)...	15685	16075	16480	16900	17335
Caput supply (Kg/year)...	10.2	10.2	7.7	8.3	8.7
Caput fish protein (g/day)	3.1	2.9	2.2	2.4	2.6
Animal protein (g/day)...	10.6	10.2	9.4	9.5	9.4
Fish/animal protein (%)..	28.8	28.6	23.3	25.4	27.5

2.9. Zaire, B24 continued:

YEAR.....	1966	1967	1968	1969	1970
Fish prod. (mt*1000/yr.).	130.0	147.7	162.4	167.0	136.6
Imports (mt*1000/yr.)....	92.1	77.0	70.7	76.5	85.3
Exports (mt*1000/yr.)....	0.0	0.0	0.0	0.0	0.0
Tot. supply (mt*1000/yr.)	222.1	224.7	233.1	243.5	221.9
Population (thousands)...	17786	18253	18738	19243	19769
Caput supply (Kg/year)...	12.5	12.3	12.4	12.7	11.2
Caput fish protein (g/day)	3.7	3.6	3.6	3.8	3.3
Animal protein (g/day)...	10.5	10.1	9.9	9.9	10.0
Fish/animal protein (%)..	35.2	36.0	36.7	38.5	33.5

YEAR.....	1971	1972	1973	1974	1975
Fish prod. (mt*1000/yr.).	123.9	124.2	156.9	128.8	113.3
Imports (mt*1000/yr.)....	83.5	87.6	87.8	98.5	85.7
Exports (mt*1000/yr.)....	0.0	0.3	0.0	0.3	0.0
Tot. supply (mt*1000/yr.)	207.4	211.5	244.7	227.0	199.1
Population (thousands)...	20318	20888	21480	22093	22726
Caput supply (Kg/year)...	10.2	10.1	11.4	10.3	8.8
Caput fish protein (g/day)	3.0	3.0	3.4	3.0	2.5
Animal protein (g/day)...	9.3	9.1	9.2	8.9	8.1
Fish/animal protein (%)..	32.6	32.8	36.4	33.8	31.1

YEAR.....	1976	1977	1978	1979	1980
Fish prod. (mt*1000/yr.).	117.8	107.0	108.7	115.1	102.4
Imports (mt*1000/yr.)....	88.5	58.9	49.9	53.7	73.6
Exports (mt*1000/yr.)....	0.0	0.0	0.0	0.0	0.0
Tot. supply (mt*1000/yr.)	206.3	165.9	158.6	168.9	176.0
Population (thousands)...	23380	24056	24755	25478	26225
Caput supply (Kg/year)...	8.8	6.9	6.4	6.6	6.7
Caput fish protein (g/day)	2.6	2.1	1.9	2.0	2.0
Animal protein (g/day)...	8.3	7.2	7.1	7.1	6.7
Fish/animal protein (%)..	31.6	28.7	27.1	28.2	29.9

YEAR.....	1981	1982	1983	1984	1985
Fish prod. (mt*1000/yr.).	102.6	100.7	102.0	148.3	148.4
Imports (mt*1000/yr.)....	100.4	72.8	83.1	78.7	176.8
Exports (mt*1000/yr.)....	0.0	0.0	0.0	0.0	0.0
Tot. supply (mt*1000/yr.)	203.1	173.5	185.1	227.0	325.3
Population (thousands)...	26997	27796	28625	29491	30398
Caput supply (Kg/year)...	7.5	6.2	6.5	7.7	10.7
Caput fish protein (g/day)	2.2	1.9	1.9	2.2	3.2
Animal protein (g/day)...	6.9	6.4	6.4	7.0	8.2
Fish/animal protein (%)..	32.1	29.3	29.3	31.9	38.5

YEAR.....	1986	1987	1988	1989	1990
Fish prod. (mt*1000/yr.).	156.5	162.0	162.0	166.0	162.0
Imports (mt*1000/yr.)....	159.6	119.6	110.7	119.2	117.5
Exports (mt*1000/yr.)....	0.0	0.0	0.0	0.0	0.0
Tot. supply (mt*1000/yr.)	316.1	281.6	272.7	285.2	279.5
Population (thousands)...	31347	32339	33374	34450	35568
Caput supply (Kg/year)...	10.1	8.7	8.2	8.3	7.9
Caput fish protein (g/day)	2.9	2.5	2.3	2.4	2.3
Animal protein (g/day)...	7.7	7.2	6.8	6.8	6.6
Fish/animal protein (%)..	37.3	35.1	34.1	35.2	34.4

2.10 Zambia, B25:

ZAMBIA

Fish production by species group (mt*1000/year).

YEAR	1970	1971	1972	1973	1974
Total production	51.1	46.8	49.9	50.4	46.9
Aquaculture	--	--	--	--	--
Inland waters	51.1	46.8	49.9	50.4	46.9
- Rastrineobola	--	--	--	--	--
- Engraulicypris	--	--	--	--	--
- Stolothrissa	--	--	--	--	--
- Limnothrissa	1.6	2.4	2.4	1.9	2.2
- Tilapia	12.4	11.1	11.9	12.1	11.2
- Lates & Luciolates	0.9	0.8	0.9	0.9	0.9
- Catfish	2.7	2.4	2.6	2.7	2.5
- Other	33.5	30.1	32.1	32.7	30.2

YEAR	1975	1976	1977	1978	1979
Total production	57.5	54.3	53.7	47.6	49.5
Aquaculture	--	--	--	--	--
Inland waters	57.4	54.3	53.7	47.6	49.5
- Rastrineobola	--	--	--	--	--
- Engraulicypris	--	--	--	--	--
- Stolothrissa	--	--	--	--	--
- Limnothrissa	2.3	1.7	1.7	1.1	1.1
- Tilapia	13.8	13.2	13.0	11.6	12.1
- Lates & Luciolates	1.0	1.0	1.0	8.8	0.9
- Catfish	3.0	2.9	2.9	2.6	2.7
- Other	37.7	35.6	35.2	31.4	32.7

YEAR	1980	1981	1982	1983	1984
Total production	51.0	37.7	55.8	54.2	65.6
Aquaculture	--	--	--	--	--
Inland waters	51.0	37.7	55.8	54.2	64.6
- Rastrineobola	--	--	--	--	--
- Engraulicypris	--	--	--	--	--
- Stolothrissa	--	--	--	--	--
- Limnothrissa	1.5	1.9	6.4	8.0	10.4
- Tilapia	12.4	8.9	12.3	11.5	13.5
- Lates & Luciolates	0.9	0.7	0.9	0.9	1.0
- Catfish	2.7	2.0	2.7	2.5	3.0
- Other	33.4	24.2	33.4	31.2	36.6

YEAR	1985	1986	1987	1988	1989
Total production	67.7	55.4	63.6	60.6	66.7
Aquaculture	--	--	--	--	--
Inland waters	67.7	55.4	63.6	60.6	66.7
- Rastrineobola	--	--	--	--	--
- Engraulicypris	--	--	--	--	--
- Stolothrissa	--	--	--	--	--
- Limnothrissa	13.3	14.6	10.3	10.9	12.8
- Tilapia	13.6	10.2	13.3	12.4	13.5
- Lates & Luciolates	1.0	0.8	1.0	0.9	1.0
- Catfish	3.0	2.2	2.9	2.7	3.0
- Other	36.8	27.6	36.0	33.6	36.5

2.10 Zambia, B25 continued:

YEAR.....	1990	1991
Total production.....	64.5	65.9
Aquaculture.....	--	--
Inland waters.....	64.5	65.9
- Rastrineobola.....	--	--
- Engraulicypris.....	--	--
- Stolothrissa.....	--	--
- Limnothrissa.....	12.3	12.8
- Tilapia.....	13.1	13.3
- Lates & Luciolates.....	1.0	1.0
- Catfish.....	2.9	2.9
- Other.....	35.3	35.9

2.10 Zambia, B26:

ZAMBIA
Fishing fleet.

YEAR.....	1979	1980	1981	1982	1983
Inland semi-industrial...	--	--	--	--	--
Inland artisanal	2555	1109	3083	1863	1834

YEAR.....	1984	1985	1986	1987	1988
Inland semi-industrial...	--	--	--	--	--
Inland artisanal	2898	11905	2726	9744	3806

YEAR.....	1989
Inland semi-industrial...	--
Inland artisanal	16378

2.10 Zambia, B27:

ZAMBIA
Food balance sheet.

YEAR.....	1961	1962	1963	1964	1965
Fish prod. (mt*1000/yr.).	40.0	40.0	42.0	45.0	48.0
Imports (mt*1000/yr.)....	9.3	12.0	12.0	12.7	14.9
Exports (mt*1000/yr.)....	6.0	6.0	6.0	8.5	7.2
Tot. supply (mt*1000/yr.)	43.3	46.0	48.0	49.2	55.7
Population (thousands)...	3226	3315	3410	3509	3614
Caput supply (Kg/year)...	13.4	13.9	14.1	14.0	15.4
Caput fish protein (g/day)	4.0	4.1	4.1	4.1	4.5
Animal protein (g/day)...	12.5	12.4	12.2	12.0	12.7
Fish/animal protein (%)..	31.7	33.0	33.8	34.0	35.3

2.10 Zambia, B27 continued:

ZAMBIA: Food balance sheet.

YEAR.....	1966	1967	1968	1969	1970
Fish prod. (mt*1000/yr.).	49.1	43.1	46.1	49.3	52.1
Imports (mt*1000/yr.)....	13.9	18.0	16.2	21.6	20.6
Exports (mt*1000/yr.)....	2.4	2.1	0.0	0.0	0.6
Tot. supply (mt*1000/yr.)	60.6	59.0	62.3	70.9	72.1
Population (thousands)...	3723	3835	3952	4070	4189
Caput supply (Kg/year)...	16.3	15.4	15.8	17.4	17.2
Caput fish protein (g/day)	4.7	4.5	4.6	5.1	5.2
Animal protein (g/day)...	13.7	13.6	14.3	14.8	15.1
Fish/animal protein (%)..	34.8	32.9	32.1	34.1	34.6

YEAR.....	1971	1972	1973	1974	1975
Fish prod. (mt*1000/yr.).	46.8	49.9	50.4	46.9	57.4
Imports (mt*1000/yr.)....	17.0	19.6	10.2	6.1	9.2
Exports (mt*1000/yr.)....	0.0	0.0	0.0	0.1	0.2
Tot. supply (mt*1000/yr.)	63.8	69.5	60.6	52.9	66.4
Population (thousands)...	4310	4434	4562	4697	4841
Caput supply (Kg/year)...	14.8	15.7	13.3	11.3	13.7
Caput fish protein (g/day)	4.5	4.8	4.0	3.4	4.1
Animal protein (g/day)...	14.4	15.2	13.4	13.5	14.4
Fish/animal protein (%)..	31.4	31.4	29.7	25.0	28.3

YEAR.....	1976	1977	1978	1979	1980
Fish prod. (mt*1000/yr.).	54.2	53.7	47.5	49.5	50.9
Imports (mt*1000/yr.)....	3.5	4.0	2.9	2.8	5.6
Exports (mt*1000/yr.)....	0.0	0.0	0.0	0.0	0.0
Tot. supply (mt*1000/yr.)	57.7	57.6	50.5	52.3	56.6
Population (thousands)...	4996	5160	5337	5529	5738
Caput supply (Kg/year)...	11.6	11.2	9.5	9.5	9.9
Caput fish protein (g/day)	3.4	3.3	2.8	2.8	3.0
Animal protein (g/day)...	14.0	13.1	12.2	11.5	11.8
Fish/animal protein (%)..	24.5	25.4	23.2	24.6	25.3

YEAR.....	1981	1982	1983	1984	1985
Fish prod. (mt*1000/yr.).	38.8	55.8	67.2	64.6	67.7
Imports (mt*1000/yr.)....	4.7	5.9	3.4	2.3	2.3
Exports (mt*1000/yr.)....	0.0	0.0	0.0	0.0	0.0
Tot. supply (mt*1000/yr.)	43.5	61.7	70.7	66.9	70.0
Population (thousands)...	5966	6210	6469	6735	7006
Caput supply (Kg/year)...	7.3	10.0	10.9	9.9	10.0
Caput fish protein (g/day)	2.2	3.0	3.3	3.0	3.0
Animal protein (g/day)...	10.3	11.4	10.7	9.8	10.1
Fish/animal protein (%)..	21.4	26.3	30.5	30.1	29.4

2.10 Zambia, B27 continued:

ZAMBIA: Food balance sheet.

YEAR	1986	1987	1988	1989	1990
Fish prod. (mt*1000/yr.)	68.1	63.5	60.5	66.7	64.4
Imports (mt*1000/yr.)	0.3	0.3	0.5	1.0	2.4
Exports (mt*1000/yr.)	0.9	1.7	1.5	1.6	1.6
Tot. supply (mt*1000/yr.)	67.5	62.1	59.6	66.1	65.2
Population (thousands)	7280	7559	7845	8142	8452
Caput supply (Kg/year)	9.3	8.2	7.6	8.1	7.7
Caput fish protein (g/day)	2.7	2.4	2.2	2.4	2.2
Animal protein (g/day)	9.7	9.3	9.0	9.1	8.9
Fish/animal protein (%)	28.0	25.4	24.4	25.9	25.2

2.11 Zimbabwe, B28:

ZIMBABWE
Fish production by species group (mt*1000/year).

YEAR	1970	1971	1972	1973	1974
Total production	2.0	2.5	3.0	3.0	3.1
Aquaculture	--	--	--	--	--
Inland waters	2.0	2.5	3.0	3.0	3.1
- Rastrineobola	--	--	--	--	--
- Engraulicypris	--	--	--	--	--
- Stolothrissa	--	--	--	--	--
- Limnothrissa	--	--	--	--	--
- Tilapia	--	--	--	--	--
- Lates & Luciolates	--	--	--	--	--
- Catfish	--	--	--	--	--
- Other	--	--	--	--	--
YEAR	1975	1976	1977	1978	1979
Total production	3.7	4.6	4.8	7.8	9.9
Aquaculture	--	--	--	--	--
Inland waters	3.7	4.6	4.8	7.8	9.9
- Rastrineobola	--	--	--	--	--
- Engraulicypris	--	--	--	--	--
- Stolothrissa	--	--	--	--	--
- Limnothrissa	--	--	--	2.8	4.9
- Tilapia	--	--	--	--	--
- Lates & Luciolates	--	--	--	--	--
- Catfish	--	--	--	--	--
- Other	--	--	--	5.0	5.0

2.11 Zimbabwe, B28 continued:

ZIMBABWE

Fish production by species group (mt*1000/year).

YEAR	1980	1981	1982	1983	1984
Total production	13.3	16.4	17.5	13.6	16.4
Aquaculture	--	--	--	--	--
Inland waters	13.3	16.4	17.5	13.6	16.4
- Rastrineobola	--	--	--	--	--
- Engraulicypris	--	--	--	--	--
- Stolothrissa	--	--	--	--	--
- Limnothrissa	8.0	11.1	8.4	8.6	10.4
- Tilapia	--	--	--	0.3	0.5
- Lates & Luciolates	--	--	--	--	--
- Catfish	--	--	--	--	--
- Other	5.0	5.3	9.1	4.7	5.5

YEAR	1985	1986	1987
Total production	17.4	17.5	17.5
Aquaculture	--	--	--
Inland waters	17.4	17.5	17.5
- Rastrineobola	--	--	--
- Engraulicypris	--	--	--
- Stolothrissa	--	--	--
- Limnothrissa	14.8	14.9	14.9
- Tilapia	0.7	0.6	0.6
- Lates & Luciolates	--	--	--
- Catfish	--	--	--
- Other	1.8	1.9	1.9

2.11 Zimbabwe, B29:

ZIMBABWE

Food balance sheet.

YEAR	1961	1962	1963	1964	1965
Fish prod. (mt*1000/yr.)	1.1	1.2	1.3	1.9	2.0
Imports (mt*1000/yr.)	4.5	4.9	4.6	6.2	6.6
Exports (mt*1000/yr.)	0.0	0.0	0.0	0.0	0.0
Tot. supply (mt*1000/yr.)	5.6	6.1	5.9	8.1	8.6
Population (thousands)	3927	4051	4182	4321	4466
Caput supply (Kg/year)	1.4	1.5	1.4	1.9	1.9
Caput fish protein (g/day)	0.4	0.4	0.4	0.5	0.5
Animal protein (g/day)	9.9	10.2	10.2	9.3	8.5
Fish/animal protein (%)	3.9	4.0	3.8	5.8	6.4

2.11 Zimbabwe, B29 continued:

YEAR.....	1966	1967	1968	1969	1970
Fish prod. (mt*1000/yr.).	2.0	2.0	2.0	2.0	2.0
Imports (mt*1000/yr.)....	7.6	7.5	8.0	8.1	6.9
Exports (mt*1000/yr.)....	0.0	0.0	0.0	0.0	0.0
Tot. supply (mt*1000/yr.)	9.6	9.5	10.0	10.1	8.9
Population (thousands)...	4616	4771	4931	5094	5260
Caput supply (Kg/year)...	2.1	2.0	2.0	2.0	1.7
Caput fish protein (g/day)	0.6	0.6	0.6	0.6	0.5
Animal protein (g/day)...	9.4	7.8	8.2	8.5	8.5
Fish/animal protein (%)..	6.3	7.3	7.2	6.8	5.9

YEAR.....	1971	1972	1973	1974	1975
Fish prod. (mt*1000/yr.).	2.5	3.0	3.0	3.0	3.6
Imports (mt*1000/yr.)....	6.7	7.2	6.7	5.4	4.4
Exports (mt*1000/yr.)....	0.0	0.0	0.0	0.0	0.0
Tot. supply (mt*1000/yr.)	9.2	10.2	9.7	8.5	8.1
Population (thousands)...	5430	5604	5780	5960	6143
Caput supply (Kg/year)...	1.7	1.8	1.7	1.4	1.3
Caput fish protein (g/day)	0.5	0.5	0.5	0.4	0.4
Animal protein (g/day)...	9.5	11.2	11.9	8.9	8.4
Fish/animal protein (%)..	5.3	4.8	4.1	4.7	4.6

YEAR.....	1976	1977	1978	1979	1980
Fish prod. (mt*1000/yr.).	4.5	4.7	7.7	9.8	13.2
Imports (mt*1000/yr.)....	3.7	3.9	2.5	1.9	6.4
Exports (mt*1000/yr.)....	0.0	0.0	0.0	0.0	0.0
Tot. supply (mt*1000/yr.)	8.3	8.7	10.3	11.7	19.6
Population (thousands)...	6330	6520	6716	6917	7126
Caput supply (Kg/year)...	1.3	1.3	1.5	1.7	2.8
Caput fish protein (g/day)	0.5	0.5	0.5	0.5	0.8
Animal protein (g/day)...	8.9	9.0	8.6	7.9	9.1
Fish/animal protein (%)..	5.2	5.2	5.8	6.5	9.3

YEAR.....	1981	1982	1983	1984	1985
Fish prod. (mt*1000/yr.).	16.4	17.5	13.6	16.4	17.3
Imports (mt*1000/yr.)....	4.0	2.5	2.0	0.7	0.1
Exports (mt*1000/yr.)....	0.1	0.1	0.0	0.1	0.1
Tot. supply (mt*1000/yr.)	20.3	19.8	15.3	17.0	17.5
Population (thousands)...	7342	7565	7798	8040	8292
Caput supply (Kg/year)...	2.8	2.6	2.0	2.1	2.1
Caput fish protein (g/day)	0.8	0.8	0.6	0.6	0.6
Animal protein (g/day)...	9.1	9.6	8.8	8.3	8.0
Fish/animal protein (%)..	9.2	8.3	6.8	7.7	7.9

YEAR.....	1986	1987	1988	1989	1990
Fish prod. (mt*1000/yr.).	18.9	19.1	22.2	24.0	25.0
Imports (mt*1000/yr.)....	0.8	0.9	0.5	1.6	1.6
Exports (mt*1000/yr.)....	0.0	0.0	0.0	0.0	0.0
Tot. supply (mt*1000/yr.)	19.7	20.0	22.6	25.7	26.6
Population (thousands)...	8555	8829	9113	9406	9709
Caput supply (Kg/year)...	2.3	2.3	2.5	2.7	2.7
Caput fish protein (g/day)	0.7	0.7	0.7	0.8	0.8
Animal protein (g/day)...	8.4	8.2	8.0	8.3	8.5
Fish/animal protein (%)..	8.2	8.3	9.2	9.9	9.7

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1989 fisheries economics. UNDP/FAO Regional Project for Inland Fisheries Planning (IFIP), RAF/87/099-WP/01/89 (En): 51p.

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1990 Tanganyika, Tanzania. UNDP/FAO Regional Project for Inland Fisheries Planning (IFIP), RAF/87/099-WP/06/90 (En): 23p.

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1991 Fisheries. Volume 2 (unedited papers 8-12). UNDP/FAO Regional Project for Inland Fisheries Planning (IFIP), RAF/87/099-**WP/07/91 (En)**: 88p.

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1991 pêche zaïroise dans la partie nord du lac Tanganyika. Projet Régional PNUD/FAO pour la Planification des Pêches Continentales (PPEC). RAF/87/099-**WP/09/91 (Fr)**: 61p.

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