

LIBERIA FISHERIES STATISTICAL SUMMARY REPORT

Inception workshop of the FCWC FAO TCP project
“Strengthening fisheries statistics in West Africa, Accra,
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INTRODUCTION

- This is reference information on the present status of fishery and data collection in Liberia to be discussed in this workshop.

Liberia has a total land area of about 111,370 km², of which 96,320 km² (86 percent) is dry land, drained by natural streams and rivers. The vegetation consists of forest and woodland (39 percent), pastures (2 percent) and arable land (ca. 36 percent)

- Fisheries is a key sector in the agricultural framework of Liberia as well as in the national economy.
- Fisheries contributed to 12% of agricultural GDP in 2002
- National GDP 3.2% in 2002
- Fisheries employed about 33,000 people of the coastal population
- Artisanal (small vessels/canoes) 3,575

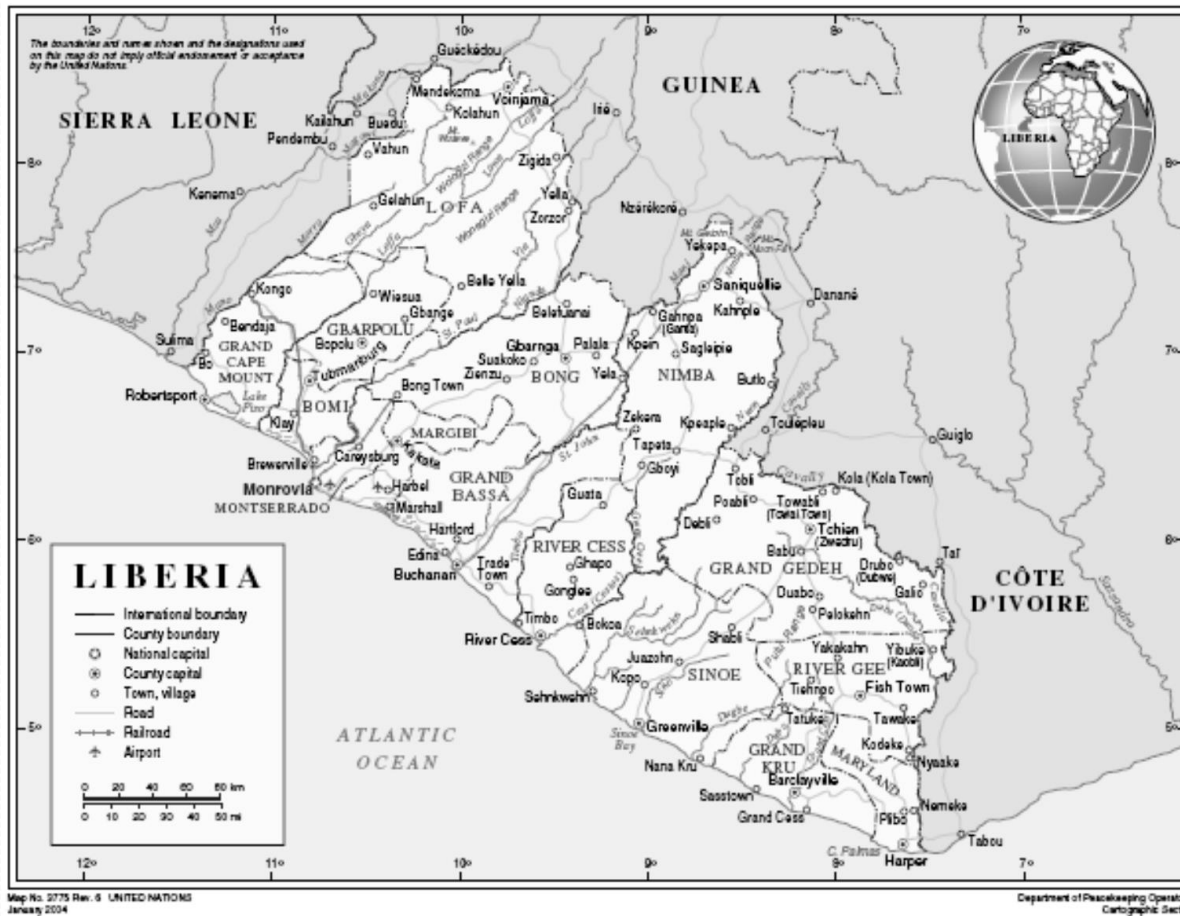
BUREAU OF NATIONAL FISHERIES STAFF

- Total number of employed Staff30
- Total number of contractors30
- Detail:
 - ✓ Coordinator (Head of the Bureau) 1
 - ✓ Director (Divisional Heads) 3
 - ✓ Sectional Heads 7
 - ✓ Administrative staff 6
 - ✓ Field Inspectors 7
 - ✓ Fisheries Observers (Contractors) 9
 - ✓ Fisheries Enumerators (Contractors)..... 21
 - ✓ Aquaculture Technicians 6

LIBERIA COAST LINE

- Coastline of about 570 km
- Continental shelf averaging of 34 km in width, affording an area of about 20,000 km² of fishing ground extending to 200 nautical miles
- Six (6) nautical miles IEZ from shore is exclusive for Artisanal fishery
- Above six(6) to 24 nautical miles for Industrial vessels

Liberia Coastline



Structure Liberia fishery Sector

- ❑ Four fisheries sub-sectors operate in Liberia
 - Industrial fisheries
 - Artisanal fisheries
 - ✓ Semi-industrial
 - ✓ Marine Artisanal
 - ✓ Inland Artisanal
 - Aquaculture
 - Recreational

Sectors' characteristics

- Industrial fisheries (started mid 1950)
- Artisanal fisheries (started before 1920)
- ✓ Semi-industrial (involving canoes range from 60ft – 90ft in length using ≥ 45 hp Out-board engine(s))
- ✓ Marine Artisanal (involving canoes length ≤ 59 ft using paddles & sails and sometime horse power < 45 out-board engine)
- ✓ Inland Artisanal (operates within six major rivers and other fresh water bodies)
- Aquaculture (started in the 50's at the Central Agriculture Institute (CARI). The sub-sector now utilizes total land area of 73.3 hectares.
- Recreational (This sub-sector existed before but began to be considered as part of fishery in 2010)

FISHING VESSELS & FISH PONDS

■ MARINE & INLAND VESSELS/CANOES

● Total number of Industrial fishing vessels 2015	7
● Total number of Artisanal fishing vessels 2015	3,575
✓ Number of Marine Artisanal Canoes 2015	2,748
✓ Number of Semi-industrial Canoes	827
✓ Number of Inland Artisanal Canoes	N/A
● Total number of Recreational boat 2015	22 (Registered/Licensed)

■ AQUACULTURE FISH PONDS

● Total number of fish ponds	1,225
● Number of fish farmers	350
● Number of fish farms	300
● Number of Reservoir ponds	300
● Number of barrages	200
● Number of Hatchery	5
● Land used	73.3 hectares

Fishing & Import company 2015

- Number of Registered Industrial fishing company ..4
- Number of Registered Tuna companies .. 4
- Number of Tuna companies applied ... 3
- Number of Registered Import companies 9
- Number of Registered Export companyN/A

TYPES OF GEARS

Bottom trawl gears

Mid-water trawl gears

Surface trawl gears

Long lines with hooks

Purse seine

Ring nets

Gill nets

Set nets

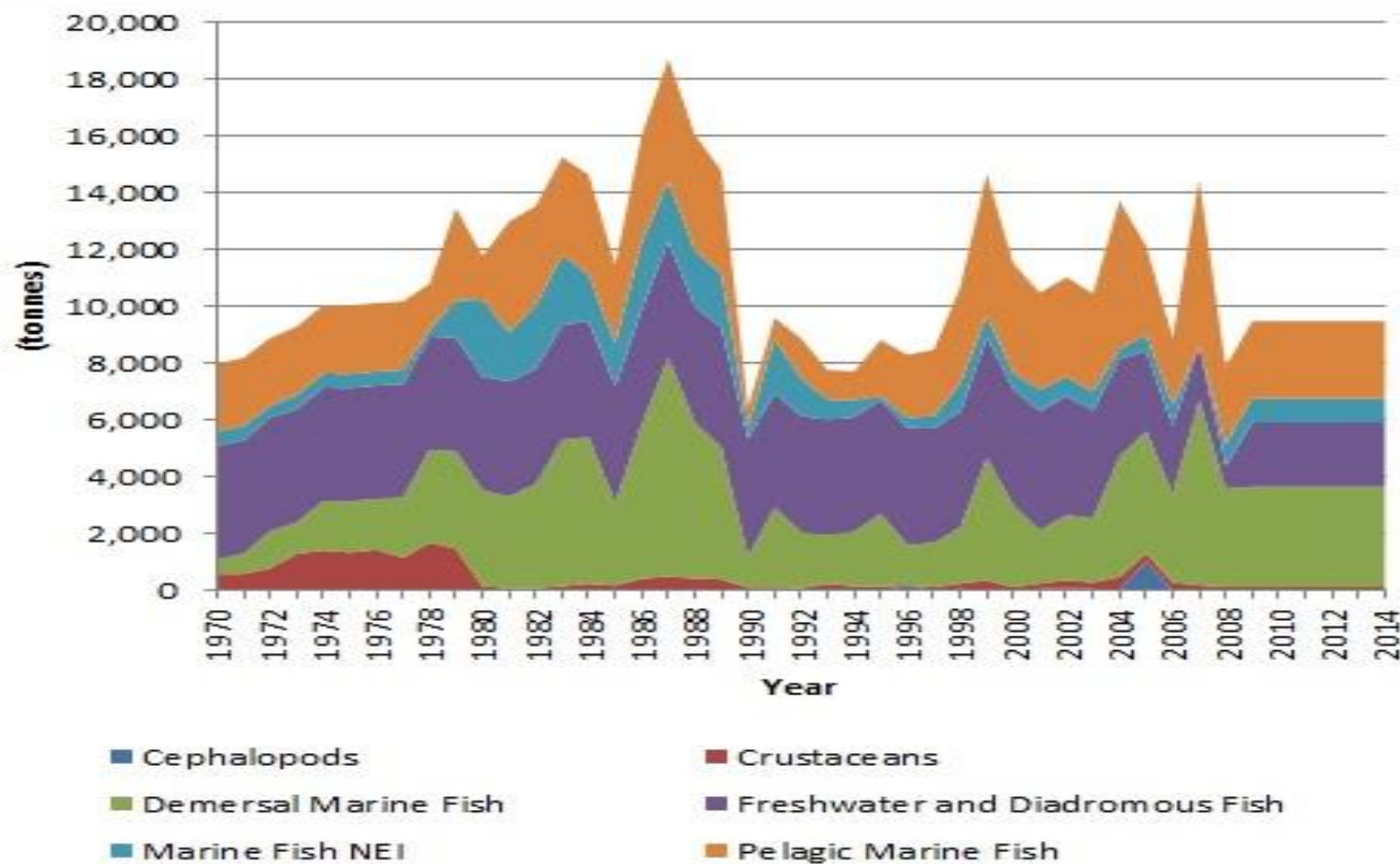
Hooks and Lines

Baskets/trap

INDUSTRIAL FISH PRODUCTION 2015

VESSEL	FISHING PERIOD	TOTAL DAYS	TOTAL CATCH(KG)	VALUE OF PROD.
F/V Sheng Hai 810	JUNE 8-JULY 14	37	125,874.32	\$ 131,665.46
F/V Sheng Hai 807	JUNE 8-JULY 14	37	112,202.49	\$ 104,411.80
F/V Sheng Hai 809	JUNE 8-JULY 7	30	116,669.05	\$ 107,539.42
F/V Sheng Hai 808	JUNE 8-JULY 7	30	91,086.00	\$ 97,917.42
F/V Sheng Hai 806	JUNE 27-JULY 13	17	51,400.10	\$ 75,326.10
F/V Sheng Hai 805	JUNE 27-JULY 10	14	46,884.00	\$ 81,774.91
F/V Global 8	JAN. 17 - NOV. 17	117	53,142.00	\$ 80,962.03
TOTAL		282	597,257.95	\$ 679,597.14
TOTAL			597.26 mts	

The National Statistics as reported to FAO are presented 1970 - 2014



SPECIES TARGETED BY INDUSTRIAL & ARTISANAL VESSELS

Local name	Scientific name	Common (English) name
<i>Demersal species(gill net, set net, ring net& long line)</i>		
Black or longneck cassava fish	<i>Pseudolithus senegalensis</i>	Cassava croaker;
Whiteboy or shortneck cassava fish	<i>Pseudolithus elongates</i>	Corvina nigrita Cuvier,
Butter-nose	<i>Galeoides decadactylus</i>	Lasser African threadfin;
Silver fish	<i>Trichurus lepturus</i>	Largehead hairtail;
Rock head	<i>Pteroscion peli</i>	Boe drum;
Grunter	<i>Dentex sp.</i>	Pink dentex
Tinny	<i>Dentex macrophthalmus</i>	Large-eye dentex;
Bear bear	<i>Pentanemus quinquarius</i>	Royal threadfin;
Porgy	<i>Drepane Africana</i>	African sicklefish;
Quayantee	<i>Pagellus acarne</i>	Axillary seabream;
Rocky sole fish	<i>Psetltodes belcheri</i>	Spottail spiny turbot;
Leopard snake fish	<i>Echiophis creutzbergi</i>	Spoon-nose eel;
Grouper	<i>Lutjanus dentatus</i>	African brown snapper;
Snake fish (1)	<i>Channomuraena vittata</i>	Broadbanded moray;
Snake fish (2)	<i>Cynoponticus ferox</i>	Guinea pike conger;
Catfish	<i>Arius sp.</i>	
Round bonny	<i>Albula vulpes</i>	Bonefish
Chicken soup fish	<i>Pseudopeneus prayensis</i>	West African goatfish
Black grouper	<i>Epinephelus aeneus</i>	White grouper;

Liberian fish species list continues

Local name	Scientific name	Common (English) name
<i>Small Pelagic species (hook & line, gill net, set net & ring net)</i>		
Gbarpelleh	<i>Illsha Africana</i>	West African ilisha
Flat bonny	<i>Sardinella maderensis</i>	Madeiran sardinella;
Gbatoe	<i>Sardinella maderensis</i> (juvenile)	
Bonga	<i>Ethmalosa fimbriata</i>	Bonga shad;
Bonsua	<i>Selar crumenophthalmus</i>	Bigeye scad;
Cavalla	<i>Caranx hippos</i>	Crévalle jack
Porjoe	<i>Chloroscombrus chrysurus</i>	Atlantic bumper;
Mackerel	<i>Scomberomorus tritor</i>	West African Spanish mackerel;
Horse palleh	<i>Caranx hippos</i>	
Goathead	<i>Selene dorsalis</i>	African moonfish
Cavalla	<i>Alectis ciliaris</i>	African pompano
Pike	<i>Sphyraena guachancho</i>	Guachanche barracuda;

Species List continues

Local name	Scientific name	Common (English) name
<i>Crustaceans (traps, set net)</i>		
Shrimp	<i>Penaeus sp.</i>	
Lobster	<i>Panulirus argus</i>	Caribbean spiny lobster;
Crab (1)	<i>Calappa rubroguttata</i>	Spotted box crab;
Crab (2)	<i>Portunus valides</i>	Smooth swim crab;
<i>Elasmobranchs(set net, traps)</i>		
Shovelnose	<i>Rhinobatus rhinobatus</i>	Common guitarfish
Airplane	<i>Sphryna spp.</i>	Hammerhead
Stinger	<i>Dasytis margarita</i>	Daisy stingray;

LIBERIA FISHERIES SECTOR

Maximum Sustainable Yield (MSY)

Production estimates derived from the surplus production models

Maximum sustainable yield (MSY)

	Abundance biomass MSY (metric tonnes)	MSY (metric tonnes)
Small pelagics	101,500.00	36,540.00
Medium pelagics	11,567.70	3,875.20
Shallow water demersals	19,703.00	5,615.40
Deeper water demersals	10,164.80	3,201.90
Total	142,935.50	49,232.50
Source: MRAG		

IMPORT ANALYSIS 2015

AGENCY	VOLUME IMPORTED (MT)	VALUE OF PRODUCTS IMPORTED (USD)
	TOTAL	TOTAL
Caroline	4,600.00	\$ 1,310,604.00
Unique Food	28.00	\$ 14,980.00
West Africa	1,105.00	\$ 595,415.56
Dalia Halian	3,075.00	\$ 463,750.00
Cheaitou Brothers	2,806.70	\$ 1,176,025.76
Snokri	1,538.00	\$ 477,391.75
Shoko	3,111.31	\$ 978,476.06
Samco	2,460.00	\$ 489,250.00
Fresh Frozen Food Inc.	7,216.33	\$ 2,004,510.89
TOTAL:	25,940.34	\$ 7,510,404.03

CPUE 2015

- Industrial fishery sector CPUE .. 302.56kg
 - ✓ Number of vessels ... 7
 - ✓ Number of fishing days .. 282
 - ✓ Total Industrial catch 2015 ..597,257.95kg

- Artisanal fishery sector CPUE 291.2kg
 - ✓ Number of Canoes 3,575
 - ✓ Number of fishing days Daily

SOCIAL ECONOMICS AND EMPLOYMENT

- Number of full-time fishers 10,656
- Number of Part-time fishers 3,305
- Number of occasional fishers 950
- Number of Mongers & Processors .. 18,089
- Number of Motorized Canoes 3,861

INCOME

INDUSTRIAL HARVEST COST PER VESSEL PER YEAR SUMMARY

TOTAL VARIABLE COST	\$ 81,200.00	
TOTAL FIXED COST	\$ 16,724.00	
TOTAL DEPRECIATION COST	\$ 32,926.67	
TOTAL OPPORTUNITY COST	\$ 27,000.00	
TOTAL LABOR COST	\$ 64,200.00	
Total cost per vessel per year	\$ 222,050.67	
	597,257.95kg	
Total production 2015		
Total Average Production per vessel 2015	85,322.56kg	
Total Revenue		679,597.14
Average Revenue per vessel		97,085.31
Total production cost per vessel per year		222,050.76
Average production cost per vessel 2015		72,166.47
Average Income per vessel 2015		\$ 24,918.84

FISHERIES AGREEMENTS

- Liberia has signed three (3) Tuna Fisheries Agreements with:
 - ✓ European Union (EU) June 2015 34 Vessels
 - ✓ Panofi November 2015 7 Vessels
 - ✓ AGAC March 2016 13 Vessels

T H E E N D ! !

T H A N K S