

Table 2-6-2 (1) Length of the survey target species at landing sites

*Epinephelus aeneus*

No.	TL(mm)	Market	Period
1	570	Ahwiam	Jul.-Aug./2001
2	156		
3	840	Tema	Jul.-Aug./2001
4	900	Sekondi	Jul.-Aug./2001
5	1060		

Table 2-6-2 (2) Length of the survey target species at landing sites

*Chloroscombrus chrysurus* (1/2)

No.	FL(mm)	TL(mm)	Market	Period	No.	FL(mm)	TL(mm)	Market	Period
1		214	Mumford	Oct.-Nov./2000	57	137	150		
2		185			58	129	141		
3		170			59	161	177		
4		241			60	119	133		
5		147			61	122	133		
6		149			62	116	127		
7		183			63	124	133		
8		94			64	121	127		
9		101			65	141	154		
10		111			66	129	140		
11		125			67	109	118		
12		89			68	120	132		
13		99			69	123	133		
14		96			70	121	131		
15		104			71	99	106		
16		169			72	115	125		
17		182	Sekondi	Oct.-Nov./2000	73	118	128		
18		145			74	168	189		
19		169			75	166	183		
20		143			76	130	145		
21		150			77	118	131		
22		187			78	136	150		
23		138			79	98	109		
24		195			80	119	131		
25		159			81	131	142		
26		171			82	130	143		
27		138			83	161	179		
28		132			84	152	169		
29		180			85	142	155		
30		171			86	118	127		
31		176			87	142	153		
32		158			88	141	158		
33		196			89	131	143		
34		161			90	188	205		
35		186			91	164	176		
36		191			92	132	144		
37		156			93	86	95		
38		184			94	108	120		
39		153			95	102	115		
40		179			96	126	136		
41		172			97	111	119		
42		168			98	134	153		
43		117			99	98	110		
44		113			100	81	93		
45	166	177	Tema	Jul.-Aug./2001	101	87	94		
46	121	133			102	77	84		
47	151	164			103	71	77		
48	157	168			104	77	83		
49	121	134			105	82	91		
50	112	128			106	82	87		
51	127	139			107	84	91		
52	138	149			108	85	92		
53	143	159			109	83	91		
54		146	Sekondi	Jul.-Aug./2001	110	82	89		
55	128	144	Ahwiam	Oct.-Nov./2001	111	78	87		
56	162	176			112	77	84		

Table 2-6-2 (2) Length of the survey target species at landing sites

*Chloroscombrus chrysurus* (2/2)

No.	FL(mm)	TL(mm)	Market	Period
113	89	97		
114	82	87		
115	81	89		
116	79	85		
117	80	85		
118	91	99		
119	84	90		
120	76	84		
121	78	83		
122	80	84		
123	80	87		
124	73	77		
125	75	80		
126	81	87		
127	80	86		
128	77	86		
129	74	79		
130	74	79		
131	92	98		
132	79	86		
133	84	90		
134	82	90		
135	64	68		
136	78	86		
137	69	77		
138	73	78		
139	63	68		
140	84	89		
141	171	188	Tema	Oct.-Nov./2001
142	161	175		
143	169	180		
144	132	149		
145	130	143		
146	145	162		
147	152	170		
148	195	219		
149	147	162		
150	130	144		
151	129	144		
152	148	174	James Town	Oct.-Nov./2001
153	143	163		
154	152	173		
155	146	171		
156	149	171		
157	154	178		
158	148	170		
159	148	172		
160	144	165		
161	164	192		
162	160	184		
163	133	159		
164	157	178		
165	176	193	Apam	Oct.-Nov./2001
166	145	163	Mumford	Oct.-Nov./2001
167	135	148		
168	155	167		

No.	FL(mm)	TL(mm)	Market	Period
169	131	147	Tema	Nov.-Dec./2001
170	150	170		
171	132	152		
172	199	234		
173	184	210		
174	159	185		

Table 2-6-2 (3) Length of the survey target species at landing sites

*Selene dorsalis*

No.	FL(mm)	TL(mm)	Market	Period
1	106		Mumford	Oct.-Nov./2000
2	106			
3	106			
4	98			
5	110			
6	100			
7	90			
8	112			
9	93			
10	102			
11	118			
12	111			
13	110			
14	150			
15	122		Sekondi	Oct.-Nov./2000
16	46	49	Sekondi	Jul.-Aug./2001
17	49	55	*No.16-44 were to be discarded	
18	54	61		
19	48	55		
20	57	62		
21	56	62		
22	50	52		
23	50	54		
24	56	64		
25	49	54		
26	53	60		
27	55	62		
28	41	45		
29	46	51		
30	54	61		
31	49	56		
32	49	56		
33	50	55		
34	53	59		
35	56	62		
36	57	64		
37	58	64		
38	57	66		
39	47	53		
40	56	61		
41	49	55		
42	48	53		
43	52	56		
44	48	54		
45		53	Ahwiam	Oct.-Nov./2001
46	107	119		
47	119	136		
48	108	126		
49	53	58		
50	80	86		
51	53	58		
52	115	129		
53	203	235	James Town	Oct.-Nov./2001
54	193	207	Apam	Oct.-Nov./2001
55	105	115	Mumford	Oct.-Nov./2001
56	109	119		

No.	FL(mm)	TL(mm)	Market	Period
57	116	129		
58	305		Tema	Nov.-Dec./2001
59	211	238		
60	214	240		
61	223	240		
62	241	262		
63	172	194		
64	118	136		
65	195	218		
66	175	196		
67	174	196		
68	172	188		
69	175	195		
70	208	244		
71	214	244		
72	189	212		
73	225			
74	94	110		
75	162	187		
76	192	220		
77	226	224		
78	181	204		
79	180	207		
80	192	214		
81	195	220		
82	175			
83	150			
84	181			
85	302			

Table 2-6-2 (4) Length of the survey target species at landing sites

*Lutjanus fulgens*

No.	FL(mm)	TL(mm)	Market	Period
1	354		Ahwiam	Jul.-Aug./2001
2	278	291	Tema	Jul.-Aug./2001
3	301	311		
4	288	298		

*Lutjanus agennes*

No.	FL(mm)	TL(mm)	Market	Period
1	392	405	Ahwiam	Oct.-Nov./2001

*Lutjanus sp.*

No.	FL(mm)	TL(mm)	Market	Period
1		337	Apam	Oct.-Nov./2000

*Dentex angolensis*

No.	FL(mm)	TL(mm)	Market	Period
1	253	274	Sekondi	Jul.-Aug./2001
2	240	263		
3	231	249		
4	231	253		
5	236	255		
6	239	262		
7	228	248		
8	234	265		
9	206	225		
10	205	199		
11	195	213		
12	209	232		
13	267	291		
14	245	270		
15	248	281		
16	220	247		
17	218	240		
18	215	240		
19	225	242		
20	226	251		
21	209	235		
22	212	237		
23	248	275		

*Dentex congoensis*

No.	FL(mm)	TL(mm)	Market	Period
1	181	196	Sekondi	Jul.-Aug./2001
2	126	138		
3	162	172		
4	197	207		
5	177	191		
6	195	215		
7	186	204		
8	174	190		
9	185	199		
10	187	199		
11	193	208		
12	153	167		
13	197	215		
14	159	176		
15	175	184		
16	180	195		
17	172	188		
18	185	199		

Table 2-6-2 (5) Length of the survey target species at landing sites

*Drepane africana*

No.	TL(mm)	Market	Period
1	116	Mumford	Oct.-Nov./2000
2	109		
3	113	Sekondi	Oct.-Nov./2000
4	105	Sekondi	Jul.-Aug./2001
5	122		
6	108		
7	106		
8	162	Apam	Oct.-Nov./2001
9	176		
10	136	Mumford	Oct.-Nov./2001
11	106		
12	156		
13	193	Tema	Nov.-Dec./2001
14	174		
15	162		
16	204		
17	172		
18	201		
19	186		
20	149		
21	195		
22	121		
23	158		
24	168		
25	148		
26	137		
27	157		
28	159		
29	161		
30	136		
31	158		
32	160		
33	158		
34	162		
35	135		
36	148		
37	133		
38	139		
39	140		
40	117		
41	119		
42	132		
43	146		
44	136		
45	126		

*Balistes capriscus*

No.	FL(mm)	TL(mm)	Market	Period
1		271	Apam	Oct.-Nov./2000
2		265		
3		222	Ahwiam	Jul.-Aug./2001
4		240	Ahwiam	Oct.-Nov./2001
5		221		

*Penaeus notialis*

No.	CL(mm)	Market	Period
1	82	Sekondi	Jul.-Aug./2001
2	63		
3	63		
4	63		

Table 2-6-2 (6) Length of the survey target species at landing sites

Sparidae (unidentified)

No.	FL(mm)	TL(mm)	Market	Period
1		538	Tema	Oct.-Nov./2000
2		201		
3		298		
4		271		
5		359		
6		182		
7		216		
8		216		
9		174		
10		196		
11		210		
12		198		
13		193		
14		169		
15		176		
16		181		
17		218		
18		163		
19		151		
20		165		
21		189		
22		186		
23		184		
24		155	Apam	Oct.-Nov./2000
25		188		
26		128		
27		244		
28		222		
29		182	Mumford	Oct.-Nov./2000
30		189		
31		186		
32		150		
33		219		
34		211	Sekondi	Oct.-Nov./2000
35		305		
36		271		
37		226		
38		220		
39		253		
40		230		
41		201		
42		129		
43		148		
44		153		
45		145		
46		139		
47		147		
48		121		
49		133		
50		225		
51		238		
52		296		
53		268		
54		236		
55		242		
56		238		

No.	FL(mm)	TL(mm)	Market	Period
57		213		

**Table 2-7-1 (1) Catch data collection form of artisanal fisheries**

AREA \_\_\_\_\_

LANDING BEACH \_\_\_\_\_

NAME OF TECH.ASST. \_\_\_\_\_

NO. OF UNITS LANDED(Mi) \_\_\_\_\_

SERIAL	PARTICULARS	WEIGHT AND VALUE OF SAMPLE UNITS EXAMINED (Mi)															
		SAMPLE TOTAL (Mi)															
1	SERIAL NOS. OF SAMPLE UNITS EXAM.																
2	TIME OF DEPARTURE																
3	TIME OF ARRIVAL																
4	DURATION																
5	TYPE OF CAN.																
6	NO. OF CREW																
7	SPECIES	KG	C	KG	C	KG	C	KG	C	KG	C	KG	C	KG	C		



Table 2-7-1 (2) Catch data collection form of semi-industrial fisheries

AREA \_\_\_\_\_ DATE \_\_\_\_\_ NO. OF LANDED(Mi) \_\_\_\_\_  
LANDING CENTRE \_\_\_\_\_ NAME OF RECORDER \_\_\_\_\_

SPECIES	WEIGHT AND VALUE OF FISH LANDED BY SAMPLE BOATS														SAMPLE TOTAL	
	1		2		3		4		5		6		7			
	lb	C	lb	C	lb	C	lb	C	lb	C	lb	C	lb	C		

**Table 2-7-1 (3) Catch data collection form of industrial fisheries**

1. NAME OF COMPANY
2. NAME AND REGISTRATION NO. OF VESSEL
3. EXPIRY DATE OF VESSEL'S LICENCE
4. TYPE OF FISHING VESSEL (eg. TRAWLER, P. SEINER, CARRIER)
5. FISHING GROUNDS (eg. OFF SHAMA DEPTH: 40m)
  - (a) OFF          DEPTH          (b) OFF          DEPTH
  - (c) OFF          DEPTH          (d) OFF          DEPTH
  - (e) OFF          DEPTH          (f) OFF          DEPTH
6. (a) DATE VESSEL LEFT PORT FOR FISHING  
 (b) DATE VESSEL RETURNED TO PORT  
 (c) NO. OF DAYS ABSENT FROM PORT (b-a)  
 (d) NO. OF DAYS USED IN FISHING
7. PORT OF DISCHARGE
8. QUANTITY OF FISH LANDED (ie. NO. OF CRATES/CARTONS/SACKS)
9. AVERAGE WEIGHT PER CRATE/CARTON/SACK (in kg)
10. TOTAL TONNAGE OF FISH LANDED

11. SPECIES OF FISH	CTNS/CRATES/SACKS/TONS	VALUE (C)

12. NO. OF DAYS IN PORT PRIOR TO NEXT TRIP
13. REMARKS

Table 2-7-2 (1) Annual catch by species and fishery (1985)

	Canoes	Inshore	Industrial	Shrimpers	Tuna	Total
LONGFINNED HERRING	7492.0	410.4				7902.4
SOLES	101.7	95.6				197.3
HAKE		4.7				4.7
GROUPERS	963.2	50.9				1014.1
SNAPPERS	37.2	58.2	548.9			644.3
BURRITO	12368.9	1517.1				13886.0
GRUNTS	239.6	120.2				359.8
CASSAVA DRUM	556.6	300.7	341.5			1198.8
PAGELLUS BELLOTTII(YIWIWA)	3788.8	497.1				4285.9
DENTEX ANGOLENSIS (BALA)	705.7	15.1				720.8
DENTEX FILOSUS (TSILE)	1136.8	6.9				1143.7
P.EHRENBERGI & D.CANARIENSIS	591.9	234.6				826.5
D.CONGOENSIS (YEKE)	34.7	139.6				174.3
SEA BREAMS UNSPECIFIED			2660.6			2660.6
RED MULLET	208.0	152.1				360.1
SPADE FISHES	1.7	10.8				12.5
TRIGGER FISHES	2275.9	3543.6	284.6			6104.1
BARRACUDAS	434.6	39.7	162.6			636.9
THREADFINS	1234.7	175.8	1171.2			2581.7
KPANLA		483.6	328.3			811.9
CARANX CHRYSOS(ODZE ONYE)		132.4				132.4
CARANX RHONCUS(EMULE)		4.1				4.1
CARANX HIPPOS	724.4	387.3				1111.7
MOONFISH	2354.2	135.0				2489.2
BUMPER	2834.6	316.6				3151.2
ROUND SARDINE	54072.4	6609.3	3593.2			64274.9
FLAT SARDINE	22233.9	1033.1				23267.0
SARDINELA UNSPECIFIED						0.0
BONGA /SHAD	358.9	13.6				372.5
HARRENGULA	1037.2					1037.2
ANCHOVY	27590.5					27590.5
BONITO		6.4				6.4
KINGFISH	586.1	27.9				614.0
FRIGATE MACKEREL	3520.8	185.6				3706.4
LITTLE TUNA	162.4				261.5	423.9
SKIPJACK TUNA	751.4	1.2			21551.2	22303.8
YELLOWFIN TUNA	157.0	49.8			5713.6	5920.4
BIGEYE TUNA	162.2				76.7	238.9
SAILFISH	4566.3					4566.3
SWORDFISH	24.6	0.3				24.9
TUNA-LIKE FISHES					6803.8	6803.8
RIBBONFISH	2542.7	54.2				2596.9
CHUB MACKEREL	45.1	119.0				164.1
SKATES	273.7	58.8				332.5
SHARKS	786.6	15.1				801.7
BIGEYE FISH		81.9	32.3			114.2
CATFISH	1.6	0.6				2.2
FLYING GURNARD	0.1	115.2				115.3
SCAD MACKEREL	1680.2	186.2	98.5			1964.9
RAINBOW RUNNER		7.3				7.3
CHROMIS		49.4				49.4
OTHERS	681.8	268.9	2822.9			3773.6
CRABS						0.0
LOBSTERS	21.8					21.8
SHRIMPS	106.8	18.1	8.3			133.2
CUTTLEFISHES	365.3	142.5	0.2			508.0
OCTOPUS	83.4	103.0	1827.8			2014.2
TOTAL	159898.0	17979.5	13880.9	0.0	34406.8	226165.2

Table 2-7-2 (2) Annual catch by species and fishery (1986)

	Canoes	Inshore	Industrial	Shrimpers	Tuna	Total
LONGFINNED HERRING	6641.2	232.2				6873.4
SOLES	249.4	117.1	33.7			400.2
HAKE		0.2				0.2
GROUPERS	813.4	42.4	145.9			1001.7
SNAPPERS	139.6	40.1	308.4			488.1
BURRITO	19234.1	1590.1	1207.7			22031.9
GRUNTS	590.1	80.6	261.1			931.8
CASSAVA DRUM	1217.9	278.7	873.0			2369.6
PAGELLUS BELLOTTII(YIYIWA)	4622.6	567.5				5190.1
DENTEX ANGOLENSIS (BALA)	492.8	1.1				493.9
DENTEX FILOSUS (TSILE)	1373.0	4.7				1377.7
P.EHRENBERGI & D.CANARIENSIS	570.0	151.8				721.8
D.CONGOENSIS (YEKE)	11.5	70.7				82.2
SEA BREAMS UNSPECIFIED			2073.3			2073.3
RED MULLET	718.1	119.5	314.2			1151.8
SPADE FISHES	986.0	9.1	27.5			1022.6
TRIGGER FISHES	10741.1	7840.7	28.0			18609.8
BARRACUDAS	1470.3	75.8	257.2			1803.3
THREADFINS	3538.4	190.7	50.3			3779.4
KPANLA		143.7	82.7			226.4
CARANX CHRYSOS(ODZE ONYE)		140.3				140.3
CARANX RHONCUS(EMULE)		4.1				4.1
CARANX HIPPOS	4474.7	475.1				4949.8
MOONFISH	4999.7	244.3	108.4			5352.4
BUMPER	13913.6	332.7	118.7			14365.0
ROUND SARDINE	45488.9	3265.4				48754.3
FLAT SARDINE	16633.5	1254.7				17888.2
SARDINELA UNSPECIFIED			2776.3			2776.3
BONGA /SHAD	359.6	11.9	36.1			407.6
HARRENGULA	963.5	4.1				967.6
ANCHOVY	15208.5					15208.5
BONITO						0.0
KINGFISH	1398.7	24.4	30.0			1453.1
FRIGATE MACKEREL	3255.7	401.2				3656.9
LITTLE TUNA	32.4				267.3	299.7
SKIPJACK TUNA	1411.0	228.8	25.3		25212.8	26877.9
YELLOWFIN TUNA	4.1	529.6	26.8		5550.8	6111.3
BIGEYE TUNA	11.6				187.0	198.6
SAILFISH	924.9					924.9
SWORDFISH	13.0	0.8				13.8
TUNA-LIKE FISHES	232.2				3502.0	3734.2
RIBBONFISH	2203.7	44.3	6.9			2254.9
CHUB MACKEREL	16865.7	2482.6	788.1			20136.4
SKATES	168.9	49.9				218.8
SHARKS	488.3	22.0				510.3
BIGEYE FISH	75.0	143.7	205.3			424.0
CATFISH	2.3	26.7	39.4			68.4
FLYING GURNARD		142.3	428.7			571.0
SCAD MACKEREL	4915.9	161.9	231.9			5309.7
RAINBOW RUNNER		48.9				48.9
CHROMIS		55.1				55.1
FLYING FISH	3.7		37.6			41.3
MARINE FISHES N.E.I	342.2	103.0	2412.0			2857.2
CRABS	4.8					4.8
LOBSTERS	544.5	9.3	0.7			554.5
SHRIMPS	482.6	64.2	5.7			552.5
CUTTLEFISHES	152.7	66.4	1135.6			1354.7
OCTOPUS	0.0					0.0
TOTAL	188985.4	21894.4	14076.5	0.0	34719.9	259676.2

Table 2-7-2 (3) Annual catch by species and fishery (1987)

	Canoes	Inshore	Industrial	Shrimpers	Tuna	Total
LONGFINNED HERRING	9965.1	465.1				10430.2
SOLES	256.6	155.6	144.6			556.8
HAKE		1.9				1.9
GROUPERS	669.4	41.0	89.2			799.6
SNAPPERS	272.6	74.7	600.2			947.5
BURRITO	13516.4	1472.2	1638.5			16627.1
GRUNTS	943.2	128.4	213.4			1285.0
CASSAVA DRUM	1822.8	384.7	171.3			2378.8
PAGELLUS BELLOTTII(YIYIWA)	7417.8	371.3				7789.1
DENTEX ANGOLENSIS (BALA)	559.6	0.7				560.3
DENTEX FILOSUS (TSILE)	1132.1	2.1	11.1			1145.3
P.EHRENBERGI & D.CANARIENSIS	583.8	133.8				717.6
D.CONGOENSIS (YEKE)	44.3	6.7				51.0
SEA BREAMS UNSPECIFIED			1071.9			1071.9
RED MULLET	236.2	108.6	392.3			737.1
SPADE FISHES	53.2	13.9				67.1
TRIGGER FISHES	12602.6	5467.2	213.2			18283.0
BARRACUDAS	3642.5	77.0	53.1			3772.6
THREADFINS	2978.8	281.1	53.2			3313.1
KPANLA		36.4				36.4
CARANX CHRYSOS(ODZE ONYE)		5.8				5.8
CARANX RHONCUS(EMULE)	3149.0	43.8	40.7			3233.5
CARANX HIPPOS	2697.4	580.6				3278.0
MOONFISH	4307.8	124.5	122.5			4554.8
BUMPER	5274.4	147.3				5421.7
ROUND SARDINE	45670.7	1736.0				47406.7
FLAT SARDINE	25479.2	1697.6				27176.8
SARDINELA UNSPECIFIED	1039.1	0.0	2326.9			3366.0
BONGA /SHAD	1400.6	29.6				1430.2
HARRENGULA	324.8	0.0				324.8
ANCHOVY	87984.4					87984.4
BONITO	13.5					13.5
KINGFISH	4042.0	47.9				4089.9
FRIGATE MACKEREL	4689.3	290.7				4980.0
LITTLE TUNA	3650.2				270.5	3920.7
SKIPJACK TUNA	730.9	44.9			26576.0	27351.8
YELLOWFIN TUNA	328.3	126.0			4155.8	4610.1
BIGEYE TUNA					123.7	123.7
SAILFISH	1064.7					1064.7
SWORDFISH	122.9					122.9
TUNA-LIKE FISHES	3097.1		228.0		2339.1	5664.2
RIBBONFISH	2073.3	83.9				2157.2
CHUB MACKEREL	397.3	30.3	318.6			746.2
SKATES	925.8	53.9				979.7
SHARKS	1617.3	14.0	0.3			1631.6
BIGEYE FISH	413.0	116.8	327.2			857.0
CATFISH	9.0	1.4				10.4
FLYING GURNARD	6.0	92.0	554.2	0.0	0.0	652.2
SCAD MACKEREL						0.0
RAINBOW RUNNER						0.0
CHROMIS						0.0
FLYING FISH	242.7					242.7
MARINE FISHES N.E.I	1202.8	148.3	3280.6			4631.7
CRABS	239.1					239.1
LOBSTERS	734.7	15.0	3.8			753.5
SHRIMPS	1455.4	144.3	2.4			1602.1
CUTTLEFISHES	44.7	134.4	1688.1			1867.2
OCTOPUS			309.4			309.4
TOTAL	261124.4	14931.4	13854.7	0.0	33465.1	323375.6

Table 2-7-2 (4) Annual catch by species and fishery (1988)

	Canoes	Inshore	Industrial	Shrimpers	Tuna	Total
LONGFINNED HERRING	3979.9	286.3				4266.2
SOLES	161.0	103.4	0.4			264.8
HAKE	0.1	0.6	0.6			1.3
GROUPERS	2004.5	24.9	0.3			2029.7
SNAPPERS	1233.1	29.1	245.0			1507.2
BURRITO	8434.2	925.9	1753.5			11113.6
GRUNTS	819.6	55.4	120.4			995.4
CASSAVA DRUM	1881.1	243.3	244.2			2368.6
PAGELLUS BELLOTTII(YIYIWA)	8164.5	368.4				8532.9
DENTEX ANGOLENSIS (BALA)	421.0	1.2				422.2
DENTEX FILOSUS (TSILE)	3204.2	0.3	0.1			3204.6
P.EHRENBERGI & D.CANARIENSIS	1168.6	70.3				1238.9
D.CONGOENSIS (YEKE)	71.9	39.0				110.9
SEA BREAMS UNSPECIFIED	9.6		498.6			508.2
RED MULLET	167.6	64.8	208.9			441.3
SPADE FISHES	105.2	16.1				121.3
BARRACUDAS	550.8	2446.4	36.3			3033.5
THREADFINS	3503.8	27.7	20.1			3551.6
TRIGGER FISHES	1696.3	84.6	0.4			1781.3
KPANLA	276.0	79.7				355.7
CARANX CHRYSOS(ODZE ONYE)		3.3				3.3
CARANX RHONCUS(EMULE)	4494.5	26.9	12.5			4533.9
MOONFISH	2474.4	78.9	40.3			2593.6
BUMPER	3515.3	42.9				3558.2
ROUND SARDINE	75851.5	671.9				76523.4
FLAT SARDINE	10450.4	95.8				10546.2
SARDINELA UNSPECIFIED			2580.4			2580.4
BONGA /SHAD	1257.3	39.9				1297.2
HARRENGULA	246.8	1.9				248.7
ANCHOVY	75902.3					75902.3
BONITO	1664.0	11.3				1675.3
KINGFISH	1449.2	8.2				1457.4
FRIGATE MACKEREL	6382.5	546.8				6929.3
LITTLE TUNA	2694.3				289.3	2983.6
SKIPJACK TUNA	374.3	102.6			29936.4	30413.3
YELLOWFIN TUNA	243.0	18.2			2770.0	3031.2
BIGEYE TUNA					51.9	51.9
SAILFISH	870.0					870.0
SWORDFISH	234.9	0.5				235.4
TUNA-LIKE FISHES	298.6				2385.7	2684.3
RIBBONFISH	1426.0	53.8				1479.8
CHUB MACKEREL	7423.5	165.7	15.0			7604.2
SKATES	457.5	67.3				524.8
SHARKS	1874.1	18.4				1892.5
BIGEYE FISH	105.9	54.7	146.8			307.4
CATFISH	7.2	2.6				9.8
SCAD MACKEREL		21.0	96.0			117.0
FLYING GURNARD	0.8	70.2				71.0
SCARD MACKEREL	2678.9	107.2	116.2			2902.3
RAINBOW RUNNER		6.1				6.1
CHROMIS	2.7	6.3				9.0
FLYING FISH	245.9					245.9
MARINE FISHES N.E.I	2076.0	81.5	1288.4			3445.9
CRABS	237.7					237.7
LOBSTERS	167.7	5.1				172.8
SHRIMPS	1039.8	137.4	0.1			1177.3
CUTTLEFISHES	42.2	102.7	1580.7			1725.6
OCTOPUS					0.0	0.0
TOTAL	244042.2	7416.5	9005.2	0.0	35433.3	295897.2

Table 2-7-2 (5) Annual catch by species and fishery (1989)

	Canoes	Inshore	Industrial	Shrimpers	Tuna	Total
LONGFINNED HERRING	3175.5	787.8				3963.3
SOLES	123.8	54.9	122.4	8.2		309.3
HAKE		1.1				1.1
GROUPERS	1459.8	25.0	11.2			1496.0
SNAPPERS	1238.3	44.0	15.8			1298.1
BURRITO	7611.8	1326.4	767.7	20.7		9726.6
GRUNTS	515.7	44.8	17.7	3.2		581.4
CASSAVA DRUM	979.2	270.3	156.5	7.6		1413.6
PAGELLUS BELLOTTII(YIYIWA)	7695.2	274.0	805.9	1.6		8776.7
DENTEX ANGOLENSIS (BALA)	58.0	1.1				59.1
DENTEX FILOSUS (TSILE)	1377.8	3.6	270.5			1651.9
P. EHRENBERGI & D. CANARIENSIS	1269.2	82.7	535.2	0.2		1887.3
D. CONGOENSIS (YEKE)	31.8	4.4				36.2
SEA BREAMS UNSPECIFIED	0.0	0.0	92.2			92.2
RED MULLET	51.4	108.7	603.6	1.4		765.1
SPADE FISHES	11.5	7.0	0.0	0.4		18.9
BARRACUDAS	1456.3	18.7	7.7	1.9		1484.6
THREADFINS	1698.2	93.4	19.5	5.5		1816.6
TRIGGER FISHES	564.5	42.9	4.9			612.3
KPANLA	93.7	130.2				223.9
CARANX CHRYSOS(ODZE ONYE)	0.0	44.4				44.4
CARANX RHONCUS(EMULE)	2483.7	14.0	135.1			2632.8
CARANX HIPPOS	1479.2	255.5	418.8			2153.5
MOONFISH	1884.0	130.2	35.1			2049.3
BUMPER	4004.2	153.7	9.9	12.8		4180.6
ROUND SARDINE	61158.5	4068.8				65227.3
FLAT SARDINE	14097.7	329.5				14427.2
SARDINELA UNSPECIFIED	0.0		4246.1			4246.1
BONGA /SHAD	1357.2	2.5	40.4	0.1		1400.2
HARRENGULA	484.1					484.1
ANCHOVY	76347.9					76347.9
BONITO	373.3					373.3
KINGFISH	553.0	9.0				562.0
FRIGATE MACKEREL	4129.2	222.3				4351.5
LITTLE TUNA	1424.8	494.6			215.3	2134.7
SKIPJACK TUNA	605.6	42.9			23154.2	23802.7
YELLOWFIN TUNA	565.4	29.7	0.0	0.0	2883.3	3478.4
BIGEYE TUNA		0.0	0.0		16.4	16.4
SAILFISH	465.4	0.0	0.0	0.0	0.0	465.4
SWORDFISH	155.5	0.7	0.0	0.0	0.0	156.2
TUNA-LIKE FISHES	73.2	0.0	0.0	0.0	6025.1	6098.3
RIBBONFISH	1597.6	141.0	0.4	0.5	0.0	1739.5
CHUB MACKEREL	11035.8	2511.8	17.1	0.0	0.0	13564.7
SKATES	437.1	47.3	0.0	0.0	0.0	484.4
SHARKS	1817.2	22.8	4.6	0.0	0.0	1844.6
BIGEYE FISH	141.9	108.2	93.2	0.0	0.0	343.3
CATFISH	2.4	0.0	0.0	0.0	0.0	2.4
FLYING GURNARD	0.0	181.0	0.0	0.0	0.0	181.0
SCARD MACKEREL		0.0	0.0	0.0	0.0	0.0
RAINBOW RUNNER		9.0	0.0	0.0	0.0	9.0
CHROMIS	0.0	23.1				23.1
FLYING FISH	1001.9		33.3			1035.2
MARINE FISHES N.E.I	2407.4	259.8	6399.2	119.3		9185.7
CRABS	36.8					36.8
LOBSTERS	164.3	4.9	4.1			173.3
SHRIMPS	1152.9	159.7	3.8	193.0		1509.4
CUTTLEFISHES	28.8	69.5	2674.0	3.6		2775.9
OCTOPUS			76.0	0.2		76.2
TOTAL	220877.7	12656.9	17621.9	380.2	32294.3	283831.0

Table 2-7-2 (6) Annual catch by species and fishery (1990)

	Canoes	Inshore	Industrial	Shrimpers	Tuna	Total
LONGFINNED HERRING	6317.0	365.8				6682.8
SOLES	109.2	31.4	109.3	22.3		272.2
HAKE		1.8				1.8
GROUPERS	957.6	7.3	69.0	1.0		1034.9
SNAPPERS/RED	630.7	23.2	61.7	1.2		716.8
SNAPPERS/GREY	159.1	7.7	91.7			258.5
OTHER SNAPPERS	17068.7	1441.1	1721.3	46.4		20277.5
BURRITO	269.7	45.3	8.0	1.0		324.0
BURRO	174.8	9.4	17.8	0.4		202.4
RONCADOR	1384.6	158.2	37.3	21.8		1601.9
CASSAVA DRUM	4625.7	190.0	1038.2	16.1		5870.0
PAGELLUS BELLOTTI(YIYIWA)	400.0	5.1				405.1
DENTEX ANGOLENSIS (BALA)	1629.4	3.8	80.5	0.1		1713.8
DENTEX FILOSUS (TSILE)	1167.0	55.6	1058.7	2.1		2283.4
P.EHREMBERGI(SIKASIKA)	102.8	36.2	41.0			180.0
D.CONGOENSIS (YEKE)	1.7	0.2	56.5			58.4
SEA BREAMS N.E.I.	5.6	42.9	517.2	4.7		570.4
RED MULLET	51.1	7.5				58.6
SPADE FISHES	2574.2	30.6	27.8	0.1		2632.7
BARRACUDAS	1411.6	122.2	117.5	11.2		1662.5
THREADFINS	18.0	4.1	0.1			22.2
TRIGGER FISHES	75.8	402.9	2512.6			2991.3
KPANLA	12434.2	50.1	306.9			12791.2
CARANX CHRYSOS(ODZE ONYE)		39.7				39.7
CARANX RHONCUS(EMULE)	4948.4	265.9				5214.3
CARANX HIPPOS	1226.3	109.9	20.0	1.0		1357.2
MOONFISH	7499.4	314.0	45.8	7.8		7867.0
BUMPER	43166.5	2421.0				45587.5
ROUND SARDINE	14549.0	941.4				15490.4
FLAT SARDINE	218.1		1923.6			2141.7
SARDINELA N.E.I.	2365.9	0.7				2366.6
BONGA /SHAD	1048.8					1048.8
HARRENGULA	74668.1					74668.1
ANCHOVY	311.2	34.2				345.4
BONITO	1662.3	5.8				1668.1
KINGFISH	15426.2	306.6				15732.8
FRIGATE MACKEREL	1922.6	318.7				2241.3
LITTLE TUNA	1021.9	0.6			29498.6	30521.1
SKIPJACK TUNA	465.7	50.7			7710.1	8226.5
YELLOWFIN TUNA					98.0	98.0
BIGEYE TUNA	406.1					406.1
SAILFISH	145.1	2.6				147.7
SWORDFISH	676.1	3.1			3496.2	4175.4
TUNA-LIKE FISHES	1427.5	83.6	4.7	2.8		1518.6
RIBBONFISH	6671.9	944.0	37.9			7653.8
CHUB MACKEREL	209.2	18.7	3.7			231.6
SKATES	1187.6	105.9	53.3	0.1		1346.9
SHARKS	169.8	23.1	421.2			614.1
BIGEYE FISH	1.2					1.2
CATFISH		20.8	18.1			38.9
FLYING GURNARD			4169.8			4169.8
DECAPTERUS(GYASE)		0.0				0.0
RAINBOW RUNNER	0.0	0.6				0.6
CHROMIS	1187.9	9.5	9536.9			10734.3
FLYING FISH			9002.4	359.8		9362.2
MARINE FISHES N.E.I	321.6	0.4				322.0
CRABS	112.8	3.7	5.7	7.8		130.0
LOBSTERS	2326.4	122.2	2.2	186.0		2636.8
SHRIMPS	8.2	34.2	1907.7	30.5		1980.6
CUTTLEFISHES			137.1	1.5		138.6
OCTOPUS						0.0
TOTAL	236920.3	9224.0	35163.2	725.7	40802.9	322836.1



Table 2-7-2 (7) Annual catch by species and fishery (1991)

	Canoes	Inshore	Industrial	Shrimpers	Tuna	Total
LONGFINNED HERRING	6676.8	337.3	0.0	0.0	0.0	7014.1
SOLES	273.9	33.5	99.7	19.7		426.8
HAKE	0.0	1.3	0.0	0.0	0.0	1.3
GROUPEES	391.3	1.0	76.6	1.3	0.0	470.2
SNAPPERS/RED	583.8	1.4	50.7	0.7		636.6
SNAPPERS/GREY	198.1	0.1	7.3	0.0		205.5
OTHER SNAPPERS	10315.8	636.6	655.3	62.2		11669.9
BURRITO	286.0	9.4	6.0	4.5	0.0	305.9
BURRO	229.9	2.8	3.9	0.0	0.0	236.6
RONCADOR	1299.2	207.8	30.5	19.1	0.0	1556.6
CASSAVA DRUM	4032.2	99.1	1160.0	23.9	0.0	5315.2
PAGELLUS BELLOTTII(YIYIWA)	260.3	0.6	0.0	0.0	0.0	260.9
DENTEX ANGOLENSIS (BALA)	721.3	1.6	287.3			1010.2
DENTEX FILOSUS (TSILE)	682.0	11.2	509.1	11.5	0.0	1213.8
P.EHRENBERGI(SIKASIKA)	82.8	12.1	3.5	0.0	0.0	98.4
D.CONGOENSIS (YEKE)	7.7	10.8	141.3	0.3	0.0	160.1
SEA BREAMS N.E.I.	3.4	8.3	451.8	6.8		470.3
RED MULLET	1.0	5.8	0.0	0.0	0.0	6.8
SPADE FISHES	2204.4	10.8	12.9	0.8		2228.9
BARRACUDAS	2281.5	96.5	25.5	29.8		2433.3
THREADFINS	6.8	0.7	0.0	0.0	0.0	7.5
TRIGGER FISHES	0.0	89.8	1684.5	0.0	0.0	1774.3
KPANLA	3981.9	111.9	473.9	0.0	0.0	4567.7
CARANX CHRYSOS(ODZE ONYE)	0.0	51.1	0.0	0.0	0.0	51.1
CARANX RHONCUS(EMULE)	4575.7	147.0	0.0	0.0	0.0	4722.7
CARANX HIPPOS	832.5	104.0	6.9	2.1	0.0	945.5
MOONFISH	7257.3	74.4	6.8	3.5	0.0	7342.0
BUMPER	50447.0	2296.1	0.5	0.0	0.0	52743.6
ROUND SARDINE	8206.7	245.6	12.2	0.0	0.0	8464.5
FLAT SARDINE	0.0	0.0	96.3	0.0	0.0	96.3
SARDINELA N.E.I.	1378.4	0.0	0.0	0.0	0.0	1378.4
BONGA /SHAD	1109.1	0.0	0.0	0.0	0.0	1109.1
HARRENGULA	65490.0	0.0	0.0	0.0	0.0	65490.0
ANCHOVY	21.7	0.7	0.0	0.0	0.0	22.4
BONITO	744.6	12.7	0.0	0.0	0.0	757.3
KINGFISH	7980.4	446.5	0.0	0.0	0.0	8426.9
FRIGATE MACKEREL	944.0	523.0	0.0	0.0	0.0	1467.0
LITTLE TUNA	1491.3	22.3	3.5	0.0	28249.6	29766.7
SKIPJACK TUNA	932.5	78.3	2.1	0.0	6628.4	7641.3
YELLOWFIN TUNA	22.9	0.0	0.0	0.0	138.3	161.2
BIGEYE TUNA	471.9	0.0	0.0	0.0	0.0	471.9
SAILFISH	73.4	0.2	0.0	0.0	0.0	73.6
SWORDFISH	125.8	0.3	6.8	0.0	2778.3	2911.2
TUNA-LIKE FISHES	1723.4	53.9	8.3	2.9		1788.5
RIBBONFISH	21028.5	1465.8	1220.8	0.0	0.0	23715.1
CHUB MACKEREL	173.1	11.8	4.1	0.0	0.0	189.0
SKATES	934.7	5.3	8.2	2.5	0.0	950.7
SHARKS	223.9	5.4	91.3	0.2	0.0	320.8
BIGEYE FISH	2.2	0.0	0.0	0.0	0.0	2.2
CATFISH	3.3	1.7	0.9	0.0	0.0	5.9
FLYING GURNARD	0.0	0.0	2161.5	0.0	0.0	2161.5
DECAPTERUS(GYASE)	0.5	0.1	0.0	0.0	0.0	0.6
RAINBOW RUNNER	0.0	0.0	0.0	0.0	0.0	0.0
CHROMIS	1363.1	0.0	0.0	0.0	0.0	1363.1
FLYING FISH	1762.6	11.2	14729.9	427.4	0.0	16931.1
MARINE FISHES N.E.I	85.9	0.0	0.0	0.0	0.0	85.9
CRABS	69.4	0.2	1.2	0.3	0.0	71.1
LOBSTERS	986.0	67.0	1.2	149.4	0.0	1203.6
SHRIMPS	865.2	41.7	2643.2	16.0	0.0	3566.1
CUTTLEFISHES	0.0	0.0	146.8	0.0	0.0	146.8
OCTOPUS						0.0
TOTAL	215847.1	7356.7	26832.3	784.9	37794.6	288615.6

Table 2-7-2 (8) Annual catch by species and fishery (1992)

	Canoes	Inshore	Industrial	Shrimpers	Tuna	Total
LONGFINNED HERRING	4587.9	363.5				4951.4
SOLES	82.7	14.8	110.3	14.9		222.7
HAKE		0.2				0.2
GROUPERS	167.3	0.7	56.8			224.8
SNAPPERS/RED	501.4	0.4	28.6			530.4
SNAPPERS/GREY	88.8	0.3	24.3			113.4
OTHER SNAPPERS						0.0
BURRITO	9564.4	619.3	755.4	84.8		11023.9
BURRO	419.9	7.2	18.1	3.3		448.5
RONCADOR			50.4	0.1		50.5
CASSAVA DRUM	2123.6	161.2	35.4	20.0		2340.2
PAGELLUS BELLOTTII(YIYIWA)	7757.9	29.8	930.1	6.5		8724.3
DENTEX ANGOLENSIS (BALA)	282.3	2.0				284.3
DENTEX FILOSUS (TSILE)	742.8	0.8	96.1			839.7
P.EHREMBERGI(SIKASIKA)	774.8	4.8	749.7	6.8		1536.1
D.CONGOENSIS (YEKE)	144.9	6.2				151.1
SEA BREAMS N.E.I.		0.8	238.6			239.4
RED MULLET	35.2	8.3	201.2	2.3		247.0
SPADE FISHES	13.0	3.5	0.3	0.7		17.5
BARRACUDAS	1684.5	45.4	22.7	0.2		1752.8
THREADFINS	1726.8	66.2	17.3	16.0		1826.3
TRIGGER FISHES	1.5	195.4	1.2			198.1
KPANLA	32.5	70.2	659.2			761.9
CARANX CHRYSOS(ODZE ONYE)		107.8				107.8
CARANX RHONCUS(EMULE)	2086.4	30.2	354.9			2471.5
CARANX HIPPOS	5290.4	30.2	0.1			5320.7
MOONFISH	1026.1	167.6	6.5	1.3		1201.5
BUMPER	5060.5	57.9	24.5	10.0		5152.9
ROUND SARDINE	119514.7	6299.7				125814.4
FLAT SARDINE	14240.3	169.8				14410.1
SARDINELA N.E.I.		14.8	79.9	0.3		95.0
BONGA /SHAD	2407.7					2407.7
HARRENGULA	1411.5	31.7				1443.2
ANCHOVY	85384.4					85384.4
BONITO	16.6	21.4				38.0
KINGFISH	892.3	6.7				899.0
FRIGATE MACKEREL	3978.9	93.6				4072.5
LITTLE TUNA	1766.3					1766.3
SKIPJACK TUNA	574.0	3.0			21336.3	21913.3
YELLOWFIN TUNA	11960.5	70.6			6253.8	18284.9
BIGEYE TUNA	199.4				95.8	295.2
SAILFISH	301.0					301.0
SWORDFISH	69.5					69.5
TUNA-LIKE FISHES	123.2				3089.7	3212.9
RIBBONFISH	4268.4	72.6	0.2			4341.2
CHUB MACKEREL	9819.2	1772.6	376.6	13.3		11981.7
SKATES	221.0	8.8		1.1		230.9
SHARKS	908.1	1.5	3.0	1.8		914.4
BIGEYE FISH	198.5	5.8	12.7			217.0
CATFISH						0.0
FLYING GURNARD		5.2	1.1	0.6		6.9
DECAPTERUS(GYASE)	663.7		329.4			993.1
RAINBOW RUNNER	43.0					43.0
CHROMIS		0.4				0.4
FLYING FISH	268.3					268.3
MARINE FISHES N.E.I	2160.2	117.7	12564.9	64.7		14907.5
CRABS	75.0					75.0
LOBSTERS	213.2	0.2	4.0	0.1		217.5
SHRIMPS	2042.4	56.8	4.3	132.5		2236.0
CUTTELFISHES	14.3	20.1	1502.2	4.8		1541.4
OCTOPUS			333.6			333.6
TOTAL	307931.2	10767.7	19593.6	386.1	30775.6	369454.2

Table 2-7-2 (9) Annual catch by species and fishery (1993)

	Canoes	Inshore	Industrial	Shrimpers	Tuna	Total
LONGFINNED HERRING	2671.3	323.9				2995.2
SOLES	117.5	12.0	91.5	26.3		247.3
HAKE						0.0
GROUPERS	323.0	0.6	60.2	1.1		384.9
SNAPPERS/RED	720.0	1.2	8.8			730.0
SNAPPERS/GREY	162.9	0.7	1.7			165.3
OTHER SNAPPERS						0.0
BURRITO	10177.2	644.9	997.5	120.4		11940.0
BURRO	267.9	4.9	3.6	0.6		277.0
RONCADOR	339.0	0.6	42.7			382.3
CASSAVA DRUM	992.5	177.2	77.0	54.7		1301.4
PAGELLUS BELLOTTII(YIYIWA)	7353.6	30.3	513.2	17.9		7915.0
DENTEX ANGOLENSIS (BALA)	427.9					427.9
DENTEX FILOSUS (TSILE)	1191.4	0.1				1191.5
P.EHRENBERGI(SIKASIKA)	1343.5	2.9	494.0	21.5		1861.9
D.CONGOENSIS (YEKE)	364.2					364.2
SEA BREAMS N.E.I.		0.5	432.0	10.3		442.8
RED MULLET	65.9	1.8	91.0	4.3		163.0
SPADE FISHES	16.3	2.8	1.2			20.3
BARRACUDAS	1932.7	11.4	25.0	0.8		1969.9
THREADFINS	1998.7	66.2	28.7	26.7		2120.3
TRIGGER FISHES	7.4	0.3	1.4			9.1
KPANLA	364.3	115.9	1412.9			1893.1
CARANX CHRYSOS(ODZE ONYE)		31.2				31.2
CARANX RHONCUS(EMULE)	2050.2	26.0	136.7			2212.9
CARANX HIPPOS	4294.2	94.8	10.2			4399.2
MOONFISH	780.9	89.9	10.9			881.7
BUMPER	6650.6	65.7	13.7	12.4		6742.4
ROUND SARDINE	90600.6	2134.1				92734.7
FLAT SARDINE	16797.1	187.1	0.0	0.0	0.0	16984.2
SARDINELA N.E.I.	0.0	0.0	721.1	0.0	0.0	721.1
BONGA /SHAD	1136.7	1.5				1138.2
HARRENGULA	620.5					620.5
ANCHOVY	81349.7					81349.7
BONITO	4.9	0.8				5.7
KINGFISH	455.8	6.8	3.0			465.6
FRIGATE MACKEREL	4369.1	158.4				4527.5
LITTLE TUNA	590.3	12.8				603.1
SKIPJACK TUNA	2194.1	31.5			22639.3	24864.9
YELLOWFIN TUNA	1860.7	239.2			10646.8	12746.7
BIGEYE TUNA	217.6					217.6
SAILFISH	694.8					694.8
SWORDFISH	121.5					121.5
TUNA-LIKE FISHES	282.0		84.3		3569.5	3935.8
RIBBONFISH	1355.8	86.1		3.2		1445.1
CHUB MACKEREL	3455.5	441.2	389.3			4286.0
SKATES	263.1	8.5	0.3			271.9
SHARKS	1966.9	7.5	6.8			1981.2
BIGEYE FISH	342.8	120.2	1.1			464.1
CATFISH	2.3					2.3
FLYING GURNARD	134.1	4.0	2.0			140.1
DECAPTERUS(GYASE)	529.6		705.3			1234.9
RAINBOW RUNNER	841.1					841.1
CHROMIS						0.0
FLYING FISH	115.8					115.8
MARINE FISHES N.E.I	765.2	8.8	9670.0	1127.1		11571.1
CRABS	194.6	0.3				194.9
LOBSTERS	364.1	1.4	3.0	0.3		368.8
SHRIMPS	977.9	65.0	4.7	100.0		1147.6
CUTTLEFISHES	19.9	9.0	1625.1	19.0		1673.0
OCTOPUS			41.5	1.2		42.7
TOTAL	257237.2	5230.0	17711.4	1547.8	36855.6	318582.0

Table 2-7-2 (10) Annual catch by species and fishery (1994)

	Canoes	Inshore	Industrial	Shrimpers	Tuna	Total
LONGFINNED HERRING	2371.4	438.4				2809.8
SOLES	66.8	15.7	107.4	41.2		231.1
HAKE	0.0	0.0	0.0	0.0	0.0	0.0
GROUPERS	119.0	1.4	48.5			168.9
SNAPPERS/RED	578.7	0.7	17.5	0.1		597.0
SNAPPERS/GREY	112.5	0.3	6.7			119.5
OTHER SNAPPERS						0.0
BURRITO	16171.4	656.8	972.5	414.8		18215.5
BURRO	548.0	17.5	4.9	5.1		575.5
RONCADOR	174.5	0.8	3.5			178.8
CASSAVA DRUM	696.7	300.1	79.9	26.8		1103.5
PAGELLUS BELLOTTII(YIYIWA)	4896.9	53.2	614.6	69.9		5634.6
DENTEX ANGOLENSIS (BALA)	182.4	1.0				183.4
DENTEX FILOSUS (TSILE)	493.9		319.4			813.3
P.EHRENBURGI(SIKASIKA)	95.6	18.1	671.3	49.0		834.0
D.CONGOENSIS (YEKE)	91.7		20.0			111.7
SEA BREAMS N.E.I.	66.0	0.4	45.7	52.9		165.0
RED MULLET	121.5	17.0	50.8	0.2		189.5
SPADE FISHES	0.9	4.9	1.0			6.8
BARRACUDAS	1074.4	8.4	11.4	0.4		1094.6
THREADFINS	3132.2	21.9	68.7	23.7		3246.5
TRIGGER FISHES	9.7	0.4	0.6			10.7
KPANLA		62.2	2083.9	390.9		2537.0
CARANX CHRYSOS(ODZE ONYE)		14.4				14.4
CARANX RHONCUS(EMULE)	3809.7	82.9	147.5			4040.1
CARANX HIPPOS	5196.5	406.9				5603.4
MOONFISH	457.3	43.2	0.6			501.1
BUMPER	4511.6	41.0	28.8	12.4		4593.8
ROUND SARDINE	67565.6	2328.8	0.2			69894.6
FLAT SARDINE	12309.5	157.2				12466.7
SARDINELA N.E.I.	377.9		2670.3			3048.2
BONGA /SHAD	570.0	3.2				573.2
HARRENGULA	311.5					311.5
ANCHOVY	60519.3					60519.3
BONITO	16.4	20.3				36.7
KINGFISH	1371.9	56.7				1428.6
FRIGATE MACKEREL	6271.7	359.8				6631.5
LITTLE TUNA	457.9	200.1				658.0
SKIPJACK TUNA	1471.9	56.9			23863.3	25392.1
YELLOWFIN TUNA	591.3	28.9			7394.1	8014.3
BIGEYE TUNA	69.6				291.4	361.0
SAILFISH	449.0					449.0
SWORDFISH	105.6					105.6
TUNA-LIKE FISHES	9.4	2.8			5424.5	5436.7
RIBBONFISH	1048.8	56.7	34.0	0.3		1139.8
CHUB MACKEREL	3354.7	427.5	1698.0			5480.2
SKATES	283.1	12.1	0.9			296.1
SHARKS	1163.0	6.9	1.0			1170.9
BIGEYE FISH	16.3	0.1	0.2			16.6
CATFISH	0.2					0.2
FLYING GURNARD	11.1	0.4	2.3			13.8
DECAPTERUS(GYASE)	296.6		661.4			958.0
RAINBOW RUNNER	87.9	9.2		1		97.1
CHROMIS						0.0
FLYING FISH	46.4					46.4
MARINE FISHES N.E.I	6112.1	39.5	6811.0	69.4		13032.0
CRABS	462.2	0.2				462.4
LOBSTERS	509.2	0.2	0.8			510.2
SHRIMPS	907.4	83.0	39.7	277.1		1307.2
CUTTLEFISHES		58.5	2329.8	7.5		2395.8
OCTOPUS			72.2	0.6		72.8
TOTAL	211746.8	6116.6	19627.0	1442.3	36973.3	275906.0

Table 2-7-2 (11) Annual catch by species and fishery (1995)

	Canoes	Inshore	Industrial	Shrimpers	Tuna	Total
LONGFINNED HERRING	2724.4	326.7				3051.1
SOLES	237.3	9.7	130.1	29.9		407.0
HAKE						0.0
GROUPERS	275.3	0.4	30.7			306.4
SNAPPERS/RED	576.2	0.8	49.2			626.2
SNAPPERS/GREY	119.4		0.4			119.8
OTHER SNAPPERS						0.0
BURRITO	12488.7	555.7	974.6	510.0		14529.0
BURRO	217.3	0.7	25.4	1.1		244.5
RONCADOR	260.9	0.5	17.2			278.6
CASSAVA DRUM	577.9	22.4	88.5	8.9		697.7
PAGELLUS BELLOTTII(YIYIWA)	3559.6	26.4	732.5	61.7		4380.2
DENTEX ANGOLENSIS (BALA)	591.0					591.0
DENTEX FILOSUS (TSILE)	915.0		456.8			1371.8
P.EHRENBERGI(SIKASIKA)	979.5	2.5	494.7	69.5		1546.2
D.CONGOENSIS (YEKE)	43.4					43.4
SEA BREAMS N.E.I.	82.6		27.1	3.4		113.1
RED MULLET	34.4	2.0	26.5	1.6		64.5
SPADE FISHES	27.8	2.1	3.8			33.7
BARRACUDAS	1342.0	9.1	20.9	0.4		1372.4
THREADFINS	1928.8	14.1	19.1	6.8		1968.8
TRIGGER FISHES	0.0	0.8	1.2			2.0
KPANLA	0.0	6.1	1748.1	472.1		2226.3
CARANX CHRYSOS(ODZE ONYE)		57.0				57.0
CARANX RHONCUS(EMULE)	2728.6	334.7	272.3	147.2		3482.8
CARANX HIPPOS	4187.1	235.1				4422.2
MOONFISH	940.3	26.4	8.6	0.2		975.5
BUMPER	2433.6	22.4	19.3	6.5		2481.8
ROUND SARDINE	65597.5	2237.5	0.3			67835.3
FLAT SARDINE	13091.6	119.0				13210.6
SARDINELA N.E.I.	2076.6	0.0	1493.3			3569.9
BONGA /SHAD	1073.2					1073.2
HARRENGULA	236.3					236.3
ANCHOVY	65496.7					65496.7
BONTO	25.2	2.7				27.9
KINGFISH	801.7	2.2				803.9
FRIGATE MACKEREL	5517.0	429.6				5946.6
LITTLE TUNA	806.2	92.1				898.3
SKIPJACK TUNA	1450.2	61.6			22923.0	24434.8
YELLOWFIN TUNA	307.5	2.0			7119.0	7428.5
BIGEYE TUNA	82.9				4.0	86.9
SAILFISH	352.7					352.7
SWORDFISH	103.0					103.0
TUNA-LIKE FISHES	60.4	12.0			3859.0	3931.4
RIBBONFISH	1729.5	71.2	22.0			1822.7
CHUB MACKEREL	8323.1	1440.8	5272.7	7.0		15043.6
SKATES	322.4	9.2	6.2			337.8
SHARKS	1110.8	2.1	2.4			1115.3
BIGEYE FISH	34.5	0.5	51.1			86.1
CATFISH	0.0	0.0	0.0	0.0	0.0	0.0
FLYING GURNARD	0.0	0.7	7.6			8.3
DECAPTERUS(GYASE)	551.5		1208.0			1759.5
RAINBOW RUNNER	1.6					1.6
CHROMIS	0.0	0.0	0.0	0.0	0.0	0.0
FLYING FISH	6.7					6.7
MARINE FISHES N.E.I	1985.3	110.8	5796.2	1035.4		8927.7
CRABS	218.2					218.2
LOBSTERS	227.6		2.7			230.3
SHRIMPS	1798.3	109.8	2.3	317.3		2227.7
CUTTLEFISHES	0.0	11.3	2769.8	9.8		2790.9
OCTOPUS			55.3			55.3
TOTAL	210659.3	6370.7	21836.9	2688.8	33905.0	275460.7

Table 2-7-2 (12) Annual catch by species and fishery (1996)

	Canoes	Inshore	Industrial	Shrimpers	Tuna	Total
LONGFINNED HERRING	6821.8	520.9				7342.7
SOLES	129.0	16.7	75.5	74.0		295.2
HAKE	0.6					0.6
GROUPERS	410.9	0.5	14.1			425.5
SNAPPERS/RED	229.6	0.1	62.2			291.9
SNAPPERS/GREY	29.9	0.2	5.9			36.0
OTHER SNAPPERS						0.0
BURRITO	9706.0	1212.0	1978.1	655.8		13551.9
BURRO	1019.9	4.2	22.6	3.0		1049.7
RONCADOR	108.0	0.3	6.7			115.0
CASSAVA DRUM	603.9	294.7	220.9	8.2		1127.7
PAGELLUS BELLOTTII(YIYIWA)	6727.7	22.4	742.3	48.3		7540.7
DENTEX ANGOLENSIS (BALA)	488.0	1.1				489.1
DENTEX FILOSUS (TSILE)	1362.7		221.5			1584.2
P.EHRENBERGI(SIKASIKA)	889.1	6.2	481.4	70.9		1447.6
D.CONGOENSIS (YEKE)	100.9	0.7				101.6
SEA BREAMS N.E.I.	3.3	0.3	85.9			89.5
RED MULLET	403.8	2.6	179.7	0.3		586.4
SPADE FISHES	4.1	1.0	0.7			5.8
BARRACUDAS	1742.6	8.5	12.3			1763.4
THREADFINS	3050.4	15.8	75.4	4.6		3146.2
TRIGGER FISHES	9.8	0.3	7.1			17.2
KPANLA	482.0	11.9	3026.7	420.6		3941.2
CARANX CHRYSOS(ODZE ONYE)		12.5				12.5
CARANX RHONCUS(EMULE)	2994.2	48.1	130.7	128.2		3301.2
CARANX HIPPOS	2753.9	129.6				2883.5
MOONFISH	879.2	19.8	7.7			906.7
BUMPER	2261.9	143.9	52.0	8.2		2466.0
ROUND SARDINE	115069.8	3338.4				118408.2
FLAT SARDINE	13501.3	118.1				13619.4
SARDINELA N.E.I.	85.6		3608.2	0.1		3693.9
BONGA /SHAD	1196.2	0.3				1196.5
HARRENGULA	477.2	0.1				477.3
ANCHOVY	98340.5					98340.5
BONITO	1.8	2.6				4.4
KINGFISH	579.7	22.7				602.4
FRIGATE MACKEREL	7952.6	410.2				8362.8
LITTLE TUNA	91.0	442.8				533.8
SKIPJACK TUNA	551.0	0.5			24284.7	24836.2
YELLOWFIN TUNA	341.4	21.1			12242.4	12604.9
BIGEYE TUNA					615.1	615.1
SAILFISH	303.4					303.4
SWORDFISH	139.7					139.7
TUNA-LIKE FISHES	889.4				112.5	1001.9
RIBBONFISH	2425.9	109.0	7.7			2542.6
CHUB MACKEREL	6855.8	1115.6	640.3			8611.7
SKATES	228.2	8.9	23.4			260.5
SHARKS	1100.8	3.2	1.6			1105.6
BIGEYE FISH	181.8	8.9	6.4			197.1
CATFISH	2.4					2.4
FLYING GURNARD	27.7	67.7	10.9			106.3
DECAPTERUS(GYASE)			1462.1			1462.1
RAINBOW RUNNER						0.0
CHROMIS		0.1				0.1
FLYING FISH	65.8	0.9				66.7
MARINE FISHES N.E.I	2990.1	12.5	8983.8	883.6		12870.0
CRABS	399.1					399.1
LOBSTERS	133.1	0.4	0.5			134.0
SHRIMPS	1104.5	181.3	1.2	266.8		1553.8
CUTTLEFISHES		13.2	2936.0	17.5		2966.7
OCTOPUS			12.0			12.0
TOTAL	298249.0	8352.8	25103.5	2590.1	37254.7	371550.1

Table 2-7-2 (13) Annual catch by species and fishery (1997)

	Canoes	Inshore	Industrial	Shrimpers	Tuna	Total
LONGFINNED HERRING	3898.8	389.7		16.8		4305.3
SOLES	106.3	28.4	204.4			339.1
HAKE						0.0
GROUPERS	426.3	0.8	49.6	1.0		477.7
SNAPPERS/RED	88.2	1.0	47.9			137.1
SNAPPERS/GREY	29.7	8.4	5.8			43.9
OTHER SNAPPERS						0.0
BURRITO	17388.1	900.5	1094.7	432.9		19816.2
BURRO	414.0	16.7	2.8			433.5
RONCADOR	29.1		14.1			43.2
CASSAVA DRUM	1330.8	330.8	312.0	21.5		1995.1
PAGELLUS BELLOTTII(YTYIWA)	6387.8	18.7	1105.8	4.4		7516.7
DENTEX ANGOLENSIS (BALA)	489.7					489.7
DENTEX FILOSUS (TSILE)	906.7		176.8			1083.5
P.EHRENBERGI(SIKASIKA)	493.3	2.2	796.9	54.6		1347.0
D.CONGOENSIS (YEKE)	117.1	1.9				119.0
SEA BREAMS N.E.I.	13.7	10.6	101.8	2.6		128.7
RED MULLET	414.0	2.4	199.3	3.1		618.8
SPADE FISHES	16.2	4.0	25.9			46.1
BARRACUDAS	1648.6	9.3	25.6			1683.5
THREADFINS	1422.1	19.8	27.7	6.9		1476.5
TRIGGER FISHES	0.2	0.2				0.4
KPANLA	7.5	23.9	170.9	250.2		452.5
CARANX CHRYSOS(ODZE ONYE)		11.6				11.6
CARANX RHONCUS(EMULE)	2382.6	4.0	869.3	81.1		3337.0
CARANX HIPPOS	2168.9	38.3				2207.2
MOONFISH	692.8	12.8	6.8			712.4
BUMPER	3797.1	18.5	22.2	8.7		3846.5
ROUND SARDINE	46383.9	3009.7				49393.6
FLAT SARDINE	14069.7	113.3				14183.0
SARDINELA N.E.I.	13.0		2350.6			2363.6
BONGA /SHAD	9762.4					9762.4
HARRENGULA	1059.5					1059.5
ANCHOVY	82723.6					82723.6
BONITO	182.7	1.3				184.0
KINGFISH	405.3	3.2				408.5
FRIGATE MACKEREL	5655.4	97.4				5752.8
LITTLE TUNA	269.1	69.8				338.9
SKIPJACK TUNA	1006.2	0.4			24177.1	25183.7
YELLOWFIN TUNA	374.6	3.6			23249.6	23627.8
BIGEYE TUNA					27.5	27.5
SAILFISH	162.7					162.7
SWORDFISH	103.0					103.0
TUNA-LIKE FISHES	302.4	1.2			6170.6	6474.2
RIBBONFISH	2702.9	155.5	7.7			2866.1
CHUB MACKEREL	7086.1	1054.9	157.6			8298.6
SKATES	179.8	2.6	2.1			184.5
SHARKS	702.0	1.2	5.3			708.5
BIGEYE FISH	330.0	5.1				335.1
CATFISH	23.7	0.3				24.0
FLYING GURNARD	7.9	67.7	0.1			75.7
DECAPTERUS(GYASE)	677.2		976.5			1653.7
RAINBOW RUNNER	52.1	13.2				65.3
CHROMIS						0.0
FLYING FISH	45.3	2.8				48.1
MARINE FISHES N.E.I		1029.0	5408.7	599.6		7037.3
CRABS	574.7	1.6				576.3
LOBSTERS	200.9	0.1	2.1			203.1
SHRIMPS	1303.1	139.7	3.1	155.6		1601.5
CUTTLEFISHES	32.0	14.1	3296.5	12.3		3354.9
OCTOPUS			57.9	0.1		58.0
TOTAL	221060.8	7642.2	17528.5	1651.4	53624.8	301507.7

Table 2-7-2 (14) Annual catch by species and fishery (1998)

	Canoes	Inshore	Industrial	Shrimpers	Tuna	Total
LONGFINNED HERRING	3143.8	488.0				3631.8
SOLES	43.2	20.6	274.6	8.4		346.8
HAKE						0.0
GROUPERS	1351.2	0.1	9.6			1360.9
SNAPPERS/RED	232.0	0.8	21.7			254.5
SNAPPERS/GREY	24.1		2.1			26.2
OTHER SNAPPERS	13.1					13.1
BURRITO	9773.4	564.2	1533.1	188.1		12058.8
BURRO	298.4	2.6	1.6	0.4		303.0
RONCADOR	78.3		29.9			108.2
CASSAVA DRUM	472.2	392.7	69.4	27.6		961.9
PAGELLUS BELLOTTII(YIYIWA)	9336.4	18.7	673.5			10028.6
DENTEX ANGOLENSIS (BALA)	1415.6					1415.6
DENTEX FILOSUS (TSILE)	1167.7		110.3			1278.0
P. EHRENBURGI(SIKASIKA)	1175.8	12.7	480.8	12.7		1682.0
D. CONGOENSIS (YEKE)	389.7		2.6			392.3
SEA BREAMS N.E.I.	63.3	6.2	213.2	8.0		290.7
RED MULLET	466.4	0.2	86.6			553.2
SPADE FISHES	0.5	3.1	0.1			3.7
BARRACUDAS	859.9	6.0	5.6			871.5
THREADFINS	743.0	28.8	1.7	0.6		774.1
TRIGGER FISHES	0.6					0.6
KPANLA	357.2	71.1	3158.7	14.7		3601.7
CARANX CHRYSOS(ODZE ONYE)		0.9				0.9
CARANX RHONCUS(EMULE)	1972.0	334.7	383.0	62.4		2752.1
CARANX HIPPOS	2809.4	81.1				2890.5
MOONFISH	333.3	39.2	8.2			380.7
BUMPER	7088.2	85.0	88.0	3.0		7264.2
ROUND SARDINE	54595.6	1369.4				55965.0
FLAT SARDINE	14770.3	697.8				15468.1
SARDINELA N.E.I.	11.9		635.7			647.6
BONGA /SHAD	157.6	0.3				157.9
HARRENGULA	162.3					162.3
ANCHOVY	44643.7					44643.7
BONITO	14.3	0.8				15.1
KINGFISH	937.7	141.7				1079.4
FRIGATE MACKEREL	7326.4	133.7				7460.1
LITTLE TUNA	330.0	237.1				567.1
SKIPJACK TUNA	1136.3				41997.0	43133.3
YELLOWFIN TUNA	547.5	19.2			19291.0	19857.7
BIGEYE TUNA	10.6				3920.5	3931.1
SAILFISH	340.6					340.6
SWORDFISH	105.9					105.9
TUNA-LIKE FISHES	5.5	9.2			359.2	373.9
RIBBONFISH	1757.4	257.8	32.0			2047.2
CHUB MACKEREL	7563.1	773.3	1128.1			9464.5
SKATES	164.5	6.1	0.5	0.4		171.5
SHARKS	1759.0	2.8	2.1			1763.9
BIGEYE FISH	117.7	2.4				120.1
CATFISH	5.9	0.4				6.3
FLYING GURNARD						0.0
DECAPTERUS(GYASE)	2028.5		960.9			2989.4
RAINBOW RUNNER	139.6	0.8				140.4
CHROMIS	0.3	0.1				0.4
FLYING FISH	50.8	0.4				51.2
MARINE FISHES N.E.I	5407.0	75.9	3976.5	186.9		9646.3
CRABS	270.5					270.5
LOBSTERS	64.9		0.2			65.1
SHRIMPS	1109.8	216.2	0.6	121.8		1448.4
CUTTLEFISHES	314.7	35.3	2920.8	17.6		3288.4
OCTOPUS			36.2			36.2
TOTAL	189458.6	6137.4	16847.9	652.6	65567.7	278664.2



Table 2-7-2 (15) Annual catch by species and fishery (1999)

	Canoes	Inshore	Industrial	Shrimpers	Tuna	Total
LONGFINNED HERRING	2883.1	378.5				3261.6
SOLES	71.0	20.5	152.9	39.9		284.3
HAKE						0.0
GROUPERS	175.1		5.5			180.6
SNAPPERS/RED	110.0	3.4				113.4
SNAPPERS/GREY	60.0					60.0
SNAPPERS UNSPECIFIED						0.0
BURRITO	11389.1	518.7	721.8	94.5		12724.1
BURRO	118.8	8.2	78.4	0.3		205.7
RONCADOR	200.5					200.5
CASSAVAS & DRUMS	440.3	303.5	158.8	34.2		936.8
PAGELLUS COUPEI(YIYIWA)	12777.1	10.7	467.4	10.3		13265.5
DENTEX ANGOLENSIS (BALA)	1766.6					1766.6
DENTEX FILOSUS (TSILE)	649.3	0.3				649.6
P.EHRENBERGI(SIKASIKA)	2299.2	6.9				2306.1
D.CONGOENSIS (YEKE)	1217.2			54.6		1271.8
SEA BREAMS N.E.I.	589.3	2.0	717.8			1309.1
RED MULLET	24.8	0.3	220.5	1.1		246.7
SPADE FISHES	20.7	3.3				24.0
BARRACUDAS	2579.7	1.7	9.7			2591.1
THREADFINS	541.4	31.2	5.9	8.2		586.7
TRIGGER FISHES	0.4	0.2				0.6
KPANLA	1776.4	359.8	471.0	66.7		2673.9
CARANX CHRYSOS(ODZE ONYE)		2.6				2.6
CARANX RHONCUS(EMULE)	1734.4	42.6	402.7	95.7		2275.4
CARANX HIPPOS	3716.3	190.2				3906.5
MOONFISH	444.4	18.8	6.5			469.7
BUMPER	7586.0	25.8	34.7	1.1		7647.6
ROUND SARDINE	39123.9	1255.5				40379.4
FLAT SARDINE	12055.7	49.1				12104.8
SARDINELA N.E.I.	1617.5	0.3	940.8			2558.6
BONGA /SHAD	766.3					766.3
HARRENGULA	132.2	1.3				133.5
ANCHOVY	32107.2					32107.2
BONITO	4.5	0.1				4.6
KINGFISH	784.1	147.5				931.6
FRIGATE MACKEREL	4209.4	19.6				4229.0
LITTLE TUNA	572.8	1.8				574.6
SKIPJACK TUNA	4587.0	0.1			51283.9	55871.0
YELLOWFIN TUNA	1078.6	4.1			28282.2	29364.9
BIGEYE TUNA	30.6				3680.1	3710.7
SAILFISH	1814.6					1814.6
SWORDFISH	389.1					389.1
TUNA-LIKE FISHES	0.3	1.4			306.3	308.0
RIBBONFISH	1136.8	112.3	17.8			1266.9
CHUB MACKEREL	5240.6	1369.6	1665.7			8275.9
SKATES	863.0	4.4	1.8			869.2
SHARKS	3996.4	1.9	0.3			3998.6
BIGEYE FISH	634.1	5.5	220.9			860.5
CATFISH	0.4					0.4
FLYING GURNARD	53.2					53.2
DECAPTERUS(GYASE)	1262.1		717.3			1979.4
RAINBOW RUNNER	13.4	2.8				16.2
CHROMIS						0.0
FLYING FISH	108.3					108.3
MARINE FISHES N.E.I	8833.0	15.6	3659.5	521.7		13029.8
CRABS	145.1					145.1
LOBSTERS	87.2					87.2
SHRIMPS	966.4	164.9		149.3		1280.6
CUTTLEFISHES	452.0	62.5	3248.7	332.1		4095.3
OCTOPUS			18.5			18.5
TOTAL	176236.9	5149.5	13944.9	1409.7	83552.5	280293.5

Table 2-7-2 (16) Annual catch by species and fishery (2000)

	Canoes	Inshore	Industrial	Shrimpers	Tuna	Total
LONGFINNED HERRING	3034.0	306.7				3340.7
SOLES	58.1	23.6	151.8	160.3		393.8
HAKE						0.0
GROUPERS	91.2		2.6			93.8
SNAPPERS/RED	170.0		45.2			215.2
SNAPPERS/GREY	121.5					121.5
SNAPPERS UNSPECIFIED	154.7					154.7
BURRITO	8864.8	450.4	656.1	60.4		10031.5
BURRO	94.0	0.8				94.8
RONCADOR	55.0					55.0
CASSAVAS & DRUMS	440.9	255.2	6.7	35.9		738.6
PAGELLUS COUPEI(YIYIWA)	2486.5	34.2	313.7	81.8		2916.2
DENTEX ANGOLENSIS (BALA)	563.9					563.9
DENTEX FILOSUS (TSILE)	872.3		20.6			892.9
P.EHREBERGI(SIKASIKA)	954.9	27.5	250.8	5.5		1238.7
D.CONGOENSIS (YEKE)	350.3					350.3
SEA BREAMS N.E.I.	104.4		234.0	1.3		339.6
RED MULLET	8.2		30.7			38.9
SPADE FISHES	0.9	0.9				1.8
BARRACUDAS	746.8	3.7	8.9			759.3
THREADFINS	1917.5	29.1				1946.6
TRIGGER FISHES	1.8					1.8
KPANLA	31.4	30.1	433.3	77.7		572.4
CARANX CHRYSOS(ODZE ONYE)		1.4				1.4
CARANX RHONCUS(EMULE)	3570.4	5.1	214.5	9.6		3799.6
CARANX HIPPOS		78.8				78.8
MOONFISH	710.0	27.6				737.6
BUMPER	6769.6	89.3	2.0			6860.9
ROUND SARDINE	98864.7	3178.0				102042.7
FLAT SARDINE	14934.9	35.0				14969.9
SARDINELA N.E.I.	5136.8		2917.4			8054.2
BONGA /SHAD	947.8	5.7				953.5
HARRENGULA	293.2					293.2
ANCHOVY	83500.8					83500.8
BONITO	30.4	1.5				31.9
KINGFISH	2218.2	69.6				2287.7
FRIGATE MACKEREL	3627.7	18.6				3646.3
LITTLE TUNA	805.6	22.3				827.9
SKIPJACK TUNA	2277.3	0.1			34986.0	37263.4
YELLOWFIN TUNA	725.8	4.4			15910.0	16640.2
BIGEYE TUNA	34.8				1651.0	1685.8
SAILFISH	568.1					568.1
SWORDFISH	453.8	0.0				453.8
TUNA-LIKE FISHES	27.1	2.0			708.0	737.1
RIBBONFISH	1536.8	65.6	61.2			1663.6
CHUB MACKEREL	14835.4	3630.2	3224.0			21689.6
SKATES	224.1	6.9				231.0
SHARKS	1698.8	1.1				1699.9
BIGEYE FISH	455.3	6.5				461.8
CATFISH	0.7					0.7
FLYING GURNARD	0.1					0.1
DECAPTERUS(GYASE)	15.6		246.9			262.5
RAINBOW RUNNER		0.3				0.3
CHROMIS						0.0
FLYING FISH	58.1					58.1
MARINE FISHES N.E.I	9175.6	49.6	5370.4	238.8		14834.3
CRABS	73.6					73.6
LOBSTERS	39.0					39.0
SHRIMPS	1130.5	143.4		172.2		1446.2
CUTTLEFISHES	101.3	63.2	1259.9	380.5		1804.8
OCTOPUS			4.3			4.3
TOTAL	275964.7	8668.1	15454.8	1223.9	53255.0	354566.5

Table 2-7-2 (17) Annual catch by species and fishery (2001)

	Canoes	Inshore	Industrial	Shrimpers	Tuna	Total
LONGFINNED HERRING	3136.4	460.2				3596.6
SOLES	47.2	32.5	119.0	27.9		226.6
HAKE						0.0
GROUPERS	134.3	0.1	3.2			137.6
SNAPPERS/RED	116.1	0.6	11.1			127.6
SNAPPERS/GREY	318.2					318.2
SNAPPERS UNSPECIFIED		0.1	1.3			1.4
BURRITO	12413.5	639.5	753.0	39.4		13845.4
BURRO	648.3	18.4	27.5			694.2
RONCADOR	124.7	0.2	27.8			152.7
CASSAVAS & DRUMS	614.0	426.8	24.9	4.4		1070.1
PAGELLUS COUPEI(YIYIWA)	2775.1	25.3	405.4			3205.8
DENTEX ANGOLENSIS (BALA)	837.8					837.8
DENTEX FILOSUS (TSILE)	674.8	0.2				675.0
P.EHRENBERGI(SIKASIKA)	1636.3	11.4	540.1	1.3		2189.1
D.CONGOENSIS (YEKE)	570.2			0.6		570.8
SEA BREAMS N.E.I.	530.5	1.6				532.1
RED MULLET	13.3	2.4	268.8			284.5
SPADE FISHES	0.4	7.4				7.8
BARRACUDAS	1140.1	4.9	10.6			1155.6
THREADFINS	2709.6	172.7	10.1			2892.4
TRIGGER FISHES	2.3					2.3
KPANLA	1247.6	0.6	275.2	16.3		1539.7
CARANX CHRYSOS(ODZE ONYE)						0.0
CARANX RHONCUS(EMULE)	2439.7		143.5	3.1		2586.3
CARANX HIPPOS	2322.9	202.3				2525.2
MOONFISH	1040.4	57.4	2.9			1100.7
BUMPER	6219.0	221.2	67.7			6507.9
ROUND SARDINE	64103.6	3217.0				67320.6
FLAT SARDINE	15853.4	53.0				15906.4
SARDINELA N.E.I.	1618.3		3133.0			4751.3
BONGA /SHAD	281.9					281.9
HARRENGULA	1823.5					1823.5
ANCHOVY	68174.6					68174.6
BONITO	369.3	4.3				373.6
KINGFISH	2920.3	5.1				2925.4
FRIGATE MACKEREL	7323.5	137.4				7460.9
LITTLE TUNA	2161.9					2161.9
SKIPJACK TUNA	3727.0				56417.2	60144.2
YELLOWFIN TUNA	3183.7	0.9			29303.3	32487.9
BIGEYE TUNA	40.4				2357.2	2397.6
SAILFISH	529.6					529.6
SWORDFISH	530.2					530.2
TUNA-LIKE FISHES	37.6	2.1			728.8	768.5
RIBBONFISH	1650.4	171.0	28.0			1849.4
CHUB MACKEREL	9574.3		3944.7			13519.0
SKATES	797.4	7.1	8.2			812.7
SHARKS	2085.9	0.4	7.0			2093.3
BIGEYE FISH	152.6		90.3			242.9
CATFISH	0.3	0.1				0.4
FLYING GURNARD	28.8		8.5			37.3
DECAPTERUS(GYASE)	1596.6	203.3	666.5			2466.4
RAINBOW RUNNER	88.6					88.6
CHROMIS						0.0
FLYING FISH	23.9					23.9
MARINE FISHES N.E.I	6792.3	6430.3	6259.2	118.5		19600.3
CRABS	152.3	2.2				154.5
LOBSTERS	342.0					342.0
SHRIMPS	1118.3	240.3	1.9			1360.5
CUTTLEFISHES		56.9	2747.2	62.3		2866.4
OCTOPUS			57.4	36.2		93.6
TOTAL	238795.2	12817.2	19644.0	310.0	88806.5	360372.9

Table 2-7-3 (1) Monthly catch in 1999 (artisanal fisheries)

Month													(tons)
	1	2	3	4	5	6	7	8	9	10	11	12	Total
<i>S. coeru/D. canariensis</i>	122.7	286.7	444.1	169.6	119.7	435.7	185.5	112.7	100.3	87.3	170.8	64.3	2,299.2
<i>P. bellottii</i>	1,037.4	1,540.0	690.8	1,313.8	1,198.6	671.2	1,638.4	637.3	411.9	713.4	1,389.6	1,534.9	12,777.1
<i>D. angolensis</i>	122.5	71.7	117.1	128.2	83.6	150.4	68.4	99.2	352.9	229.0	89.6	254.2	1,766.6
<i>D. congoensis</i>	59.7	87.9	13.8	102.6	48.4	26.4	34.6	20.3	355.6	322.7	62.2	83.1	1,217.2
<i>Pseudolithus</i> sp.	85.2	31.7	16.7	12.6	174.1	6.6	6.8	12.2	7.1	6.1	45.6	35.8	440.3
<i>P. prayensis</i>	0.3	1.0	4.8	0.2	13.3	0.0	0.0	1.0	0.5	0.5	0.3	3.0	24.8
<i>B. auritus</i>	1,253.4	923.2	689.6	416.1	866.7	277.7	185.9	365.1	931.8	1,940.5	2,941.5	597.7	11,389.1
<i>P. incisus</i>	11.9	19.7	35.4	16.9	3.7	16.0	14.3	7.6	19.8	4.0	8.5	42.8	200.5
<i>P. jubelini</i>	29.4	4.0	6.6	14.3	40.5	6.2	4.3	3.4	2.0	2.8	1.9	3.5	118.8
<i>L. fulgens/L. agennes</i>	7.9	22.4	2.8	8.3	32.0	7.9	5.5	6.1	5.3	6.1	3.6	2.0	110.0
Serranidae(Groupers)	9.0	4.1	20.7	23.6	6.5	24.3	10.6	12.0	54.9	5.7	2.7	1.1	175.1
<i>D. africana</i>	0.0	0.0	10.7	1.6	7.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	20.7
<i>Caranx rhonchus(D. rhonchus)</i>	171.0	248.8	152.1	43.0	119.0	165.0	54.0	355.6	316.0	88.3	1.3	20.5	1,734.4
<i>C. chrysurus</i>	947.1	474.3	256.7	145.5	300.3	266.8	105.1	1,037.2	986.7	1,739.7	938.8	387.8	7,586.0
<i>S. dorsalis</i>	18.1	5.0	5.4	4.8	5.0	5.8	0.5	22.4	78.9	60.9	130.7	106.9	444.4
<i>Galeoides</i> sp.	56.6	57.3	27.0	19.3	59.0	61.9	19.9	19.6	22.9	86.2	69.5	42.1	541.4
<i>B. caprisus</i>	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Penaeidae(Shrimps)	14.4	22.0	52.3	43.6	31.9	47.0	51.9	176.9	145.0	202.7	136.1	42.5	966.4
<i>S. officinalis</i>	0.0	0.0	59.7	208.9	4.1	0.0	0.0	151.1	6.4	21.4	0.4	0.0	452.0

Table 2-7-3 (2) Monthly catch in 1999 (semi-industrial fisheries)

Month													(tons)
	1	2	3	4	5	6	7	8	9	10	11	12	Total
<i>S. coeru/D. canariensis</i>	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.6	1.5	4.0	6.9
<i>P. bellottii</i>	0.3	2.1	2.3	0.3	2.1	1.7	0.6	0.0	0.3	0.1	0.2	0.7	10.7
<i>D. angolensis</i>	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
<i>D. congoensis</i>	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
<i>Pseudolithus</i> sp.	32.4	44.0	43.4	23.8	23.7	30.2	2.6	0.8	5.0	12.1	46.5	39.1	303.5
<i>P. prayensis</i>	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.3
<i>B. auritus</i>	38.6	58.9	86.2	46.1	40.1	50.3	2.4	0.7	29.7	42.1	69.0	54.5	518.7
<i>P. incisus</i>	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
<i>P. jubelini</i>	1.1	0.3	0.4	2.4	0.1	0.0	0.2	0.2	0.3	0.5	0.1	2.8	8.2
<i>L. fulgens/L. agennes</i>	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	3.4
Serranidae(Groupers)	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
<i>D. africana</i>	0.2	0.5	0.7	1.2	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.1	3.3
<i>Caranx rhonchus</i> ( <i>D. rhonchus</i> )	1.4	0.4	0.0	0.0	0.0	0.0	0.0	38.3	1.4	1.2	0.0	0.0	42.6
<i>C. chrysurus</i>	9.9	0.3	1.0	0.5	0.1	0.1	0.0	7.0	4.0	1.2	1.0	0.8	25.8
<i>S. dorsalis</i>	0.7	1.1	2.0	4.1	7.1	3.2	0.0	0.0	0.0	0.0	0.0	0.5	18.8
<i>Galeoides</i> sp.	3.6	6.1	8.9	5.7	3.9	1.5	0.0	0.0	0.1	0.3	0.4	0.8	31.2
<i>B. capricus</i>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.2
Penaeidae(Shrimps)	16.4	13.0	12.9	9.0	10.6	17.6	3.1	2.9	10.8	10.8	40.7	17.1	164.9
<i>S. officinalis</i>	15.4	12.0	7.5	0.0	0.0	0.0	0.0	0.0	7.3	11.3	4.0	4.8	62.5

Table 2-7-3 (3) Monthly catch in 1999 (industrial fisheries)

Month	1	2	3	4	5	6	7	8	9	10	11	12	Total
Soleidae													
Cynoglossidae	4.4	27.5	3.2	2.7	3	2.6	18.7	9.5	5.5	4.5	51.1	20.2	152.9
Merluccius merluccius													
Merluccius spp.													
Ariidae													
Dentex macrophthalmus													
Dentex angolensis													
Dentex spp.													
Pagellus acarne													
Pagellus bellotii	52.7	37	28.3	33.1	24.6	10.5	13.6	9	106.7	47.9	30.8	73.2	467.4
Pagellus erythrinus													
Pagellus spp.													
Spondyliosoma cantharus													
Sparidae	66.3	71	107.7	15.4	12.2	24.6	80.9	54.6	47.2	91.8	67.7	78.4	717.8
Pseudolithus elongatus													
Pseudolithus spp.	65.1	6.2	8.2	0.3	0.6	1	8.3	15.2	9.3	29.6	5.3	9.7	158.8
Pteroscion peli													
Brachydeuterus auritus	33.1	32.8	58.2	33.2	73.7	230.2	24.6	7.7	63.5	13.1	123.9	27.8	721.8
Pomadasys jubelini						0.4			0.1	0.1	0.1		0.7
Serranidae		0.3	0.1			0.8	0.3	1.8	0.2	1	0.7	0.3	5.5
Galeoides decadactylus					1	1.2			1	1.6	1.1		5.9
Pentanemus quinquarius													
Halistes capricus													
Pomatomus saltatrix													
Trachurus spp.	23.9	31.6	15.5	11.9		16.2	82	79.9	42.3	83.3	8.1	76.3	471
Decapt. ronchus/Decapt. punctatus	40.4	30.8	26.5	3.3	3.5	44.5	70.5	46.3	37.9	77.1	5.6	56.4	442.8
Sardina pilchardus													
Sardinella maderensis (=eba)													
Sardinella aurita													
Sardinella spp.	0.1	58.1	75.9		104.5	482.8	1.2	168.5	5.3		44	0.4	940.8
Ethmalosa fimbriata													
Engraulis encrasicolus													
Clupeoidei													
Scomber japonicus	283.1	84.3	97.6	50.1	148.1	591.8	99.6	71.6	191.5	21.2	13.5	13.3	1665.7
Trichiuridae	2.4		2.4		10.4	0.6	0.7	0.1	0.3	0.3	0.6		17.8
Elasmobranchii							0.1					0.2	0.3
Rajiformes						0.3			0.9	0.4	0.2		1.8
Crabs n.e.I./Crabs n.c.a.													
Panulirus spp.													
Palinurus spp.													
Penaeus notialis													
Parapenaeopsis atlantica													
Perapenaeus longirostris													
Crustacea													
Gastropoda													
Loliginidae/Ommastrephidae													
Sepiidae, Sepiolidae	277.8	523.2	467.8	182.3	88.9	74.7	259	101.7	237.3	336.8	256.8	442.4	3248.7
Octopodidae		2.3	8.1					0.7	0.1		5	2.3	18.5
Cephalopoda													
Mollusca													
Others	85.6	593.4	94.3	293.2	211.6	1042	286.9	289.7	337.5	709.1	796.9	166.5	4906.7
TOTAL	934.9	1498.5	993.8	625.5	682.1	2524.2	946.4	856.3	1086.6	1417.8	1411.4	967.4	13944.9

Table 2-7-4 Monthly fishermen's income from each species in 1999 (artisanal fisheries)

Month	(1,000,000cedis)												Total
	1	2	3	4	5	6	7	8	9	10	11	12	
<i>S. coeru/D. canariensis</i>	229	587	775	417	323	826	496	281	261	179	474	164	5,012
<i>P. bellottii</i>	1,624	2,723	366	2,208	1,813	1,073	2,508	1,146	764	905	2,825	3,132	21,086
<i>D. angolensis</i>	176	122	259	245	147	332	120	249	906	487	230	670	3,944
<i>D. congoensis</i>	68	112	18	137	77	32	43	44	762	627	124	161	2,204
<i>Pseudotolithus sp.</i>	66	20	12	12	181	9	16	14	7	7	39	25	408
<i>P. prayensis</i>	1	2	7	0	15	0	0	1	1	2	1	3	34
<i>B. auritus</i>	602	453	415	260	410	214	196	295	787	629	2,152	487	6,900
<i>P. incisus</i>	13	25	53	23	5	21	13	8	24	5	8	32	228
<i>P. jubelini</i>	17	6	7	12	32	5	4	3	2	3	2	3	96
<i>L. fulgens/L. agennes</i>	18	54	12	20	66	18	10	7	9	21	15	7	257
Serranidae(Groupers)	42	20	57	95	13	83	59	66	247	27	11	6	724
<i>D. africana</i>	0	0	29	2	7	1	0	0	0	0	0	0	39
<i>Caranx rhonchus(D. rhonchus)</i>	217	122	247	49	249	242	83	284	426	129	2	25	2,076
<i>C. chrysurus</i>	395	227	168	86	222	207	72	647	665	1,003	492	199	4,384
<i>S. dorsalis</i>	11	5	5	5	6	6	1	45	82	38	57	99	359
<i>Galeoides sp.</i>	49	43	30	27	60	64	21	21	34	102	83	40	575
<i>B. capriscus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0
Penaeidae(Shrimps)	9	22	39	24	32	38	37	88	162	134	237	25	848
<i>S. officinalis</i>	0	0	132	637	8	0	0	604	32	15	2	0	1,430

# Collected Research Materials



## Collected research materials

Following research materials were collected at the field surveys.

- Bannerman, P. O. K. A. Koranteng and C. A. Yeboah. 2001. Ghana Canoe Frame Survey 2001. Fisheries Department, Marine Fisheries Research Division, Ghana.
- FAO. 2000. Report of the fifteenth session of the Fishery Committee For The Eastern Central Atlantic(CECAF). Abuja, Nigeria, November 2000. FAO Fisheries Report No. 642.
- FAO. 2000. Report of the first session of the Scientific Sub-Committee of the CECAF. Abuja, Nigeria, October 2000. FAO Fisheries Report No. 641.
- FMOC. 2000. REVIEW OF AND RECOMMENDATIONS TO OPERATIONALISE MARINE FISHERIES POLICY AND MANAGEMENT PLAN FOR GHANA. Government of Ghana. 1997. GHANA-VISION 2020, The First Medium Term Development Plan(1997-2000).
- Government of Ghana. 1998. GHANA-VISION 2020, Programme of Action For The First Medium-Term Development Plan(1997-2000).
- Koranteng, K. A. 1993. Ghana National Fisheries Development Project, Fisheries Department.
- Mensah, M. A. and K. A. Koranteng. 1998. A Review of the Oceanography and Fisheries Resources in the Coastal Water of Ghana, 1981-1986. Fisheries Department, Research and Utilization Branch, Tema, Ghana.

JICA