### 表2-6-2(1). 陸上調査における調査対象魚種の測定結果

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		

表2-6-2 (2). 陸上調査における調査対象魚種の測定結果

Chloroscombrus chrysurus (1/2)

			arysurus (1/	
_	FL(mm)		Market	Period
1		214	Mumford	Oct. Nov./2000
2		185	'	
3		170		
4		241		
5		147		ļ
6		149		
7		183		
8		94		
9		101		1
				[ [
10		111		
11		125		
12		89		ĺ
13		99		
14		96		
15		104		]
16		169		1
17		182	Sekondi	Oct. Nov./2000
18		145	· <del></del>	
19		169		
20		143		ነ ነ
		150		
21				
22		187		
23		138		
24		195		}
25		159		ŀ
26		171		
27		138		
28		132		l -
29	,	180		<b>\</b>
30		171		
31	· ·	176		
32		158		
33		196		
34	į	161		Į į
35		186		
36		191		]
37	i	156		l İ
38	ļ	184		Į Į
39		153		
40		179		
41		172		
42		168		
43		117		
44		113		1
45	166	177	Tema	Jul. Aug./2001
46	121	133		
47	151	164		
48	157	168		
49	121	134		]
50	112	128		
51	127	139		
52	138	149		
53	143	159	A 1 1	
54		146	Sekondi	Jul. Aug./2001
55	128	144	Ahwiam	Oct. Nov./2001
56	162	176		_

No.	FL(mm)		Market	Period
57	137	150		
58	129	141		J
59	161	177		İ
60	119	133		
61	122	133	ı	<b>!</b>
62	116	127		
63	124	133		}
64	121	127		
65	141	154		
66	129	140		ì
67	109	118		
68	120	132		ļ
69	123	133		
70	121	131		
71	99	106		
72	115	125		
73	118	128		Į
74	168	189		
75	166	183		ļ
76	130	145		
77	118	131		
.78	136	150		
79	98	109		ļ
80	119	131		l
81	131	142		
82	130	143		ļ
83	161	179		
84	152	169		
85	142	155		
86	118	127		
87	142	153		
88	141	158		
89	131	143		
90	188	205		
91	164	176		
92	132	144		
93	86	95		
94 95	108	120		
1	102	115		
96	126	136		
98	111 134	119 153		
99	98	110		
100	81	93		İ
101	87	94		
102	77	84		
103	71	77		
104	77	83		
105	82	91		
106	82	87		
107	84	91	į	
108	85	92		
109	83	91		
110	82	89	·	
111	78	87		,
112	77	84		
114	<u></u> 1	0-11		

# 表2-6-2(2). 陸上調査における調査対象魚種の測定結果

Chloroscombrus chrysurus (2/2)

			hrysurus (2/	
No.	FL(mm)	TL(mm)	Market	Period
113	89	97		
114	82	87		
115	81	89	,	
116	79	85	i	
117	80	85		1
118	91	99		
119	84	90		
120	76	84		i
121	78	83		
122	80	84	ļ	ļ
123	80	87		
124	73	77		
125	75	80		
126	81	87		
127	80	86		
128	77	86		
129	74	79		ļ
130	74	79		
131	92	98		
132	79	86		\
133	84	90		ļ
134	82	90		İ
135	64	68		l
136	78	86		
137	69	77		
138	73	78		
139	63	68		
	84	89		
140 141	171	188	Tema	OctNov./2001
141	161	175	теща	Oct. Nov./2001
	169	180		
143		149		
144	132 130	143		
145	145	162		
146	152	170		
147	195	219		
148		162		
149	147	144		
150 151	130 129	144		
152	148	174	James Town	Oct - Nov./2001
153	143	163	aames 10MH	JC6. NOV./2001
$153 \\ 154$	143 152	173		
154 155	146	173		
156	149	171		
157	154	171		
158	148	170		
159	148	172		]
	146	165		i
160	164	192		}
161				
162	160	184		
163	133	159		
164	157	178		Oct - No /9001
165	176	193	Apam	Oct. Nov./2001
166	145	163	Mumford	OctNov./2001
167	135	148		<b> </b>
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		1

# 表2-6-2 (3). 陸上調査における調査対象魚種の測定結果

Selene dorsalis

DCI	ene dor			
No.	FL(mm)	TL(mm)	Market	Period
1	106		Mumford	OctNov./2000
2	106			İ
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	OctNov./2000
16	46	49	Sekondi	JulAug./2001
17	49	55		to be discarded
18	5 <b>4</b>	61		
19	48	55		
20	57	62		1
	56	62		
21	50 50	52		
22				
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		
	47	53	1	
39	56	61		
40				
41	49	55 50		
42	48 50	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	JamesTown	OctNov./2001
54	193	207	Apam	Oct. Nov./2001
55	105	115	Mumford	Oct. Nov./2001
56	109	119	MUMINIO	000. A01.14001
90	109	119		L

	FL(mm)	TL(mm)	Market	Period
57		129		
58			Tema	NovDec./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		i
75	162	187		Į
76	192	220		
77		224		
78	181	204		
79	180	207		
80	192	214		
81	195	220		1
82	175			
83	150			1
84	181			
85	302			

# 表2-6-2(4). 陸上調査における調査対象魚種の測定結果

Lutianus 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		

Lutianus agennes

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

Lutianus sp.

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

Dentex angolensis

	Dentex angolensis					
	No.	FL(mm)	TL(mm)	Market	Period	
	1	253	274	Sekondi	Jul. Aug./2001	
	2	240	263			
	3	231	249			
٠	4	231	253			
1	5	236	255			
	6	239	262			
į	7	228	248			
	8	234	265			
i	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			
ļ	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	i	
4	197	207		
5	177	191		
6	195	215		
7	186	204		
8	174	190		
9	185	199	į	
10	187	199	1	
11	193	208		
12	153	167		
13	197	215		
14	159	176		
15	175	184		
16	180	195		
17	172	188		
18	185	199		

# 表2-6-2 (5). 陸上調査における調査対象魚種の測定結果

Drepane africana

	ерапе а		
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	<u> </u>	
8	162	Apam	OctNov./2001
9	176		ļ
10	136	Mumford	OctNov./2001
11	106		•
12	156		
13	193	Tema	Nov. Dec./2001
14	174		]
15	162		]
16	204		
17	172		ļ <b>[</b>
18	201		}
19	186		]
20	149		
21	195		<u> </u>
22	121		[ [
23	158		]
24	168		
25	148		
26	137		
27	157		}
28	159		
29	161		ļ
30	136		
31	158		Į {
32	160		
33	158		
34	162		ļ
35	135		
36 37	148 133		1
38	139		
39 40	140 117		
40	117	İ	ļ
41	132		
42 43	146		
	136	İ	]
44			[
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		<u> </u>

#### Penaeus notialis

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

### 表2-6-2(6). 陸上調査における調査対象魚種の測定結果

Sparidae (unidentified)

Sparidae (unidentified)										
No.	FL(mm)	TL(mm)	Market	Period						
Ī		538	Tema	Oct. Nov./2000						
2	1	201		ĺ						
3		298		•						
4		271								
5		359								
6		182								
7		216								
8		216								
9		174								
10		196								
		210								
11 12	ĺ	198		ĺ						
		193								
13										
14		169								
15		176								
16		181								
17		218								
18		163		j i						
19		151		i i						
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		İ						
37		226								
38		220								
39		253								
40		230		1						
41		201		i						
42		129		]						
43		148								
44		153								
45		145								
46		139								
47		147								
48		121								
49		133								
50	[	225	!	[						
51		238	ļ							
52		296	İ							
53		268	i							
54		236	•							
55		242								
56		238								
لننا				·····						

7	213	
		 L

AREA LANDING BEACH NAME OF TECH.ASST. NO. OF UNITS LANDED(Mi) SERI PARTICULARS WEIGHT AND VALUE OF SAMPLE UNITS EXAMINED (Mi) ALSERIAL NOS. OF SAMPLE UNITS SAMPLE TOTAL (Mi) EXAM. TIME OF DEPARTURE TIME OF ARRIVAL DURATION TYPE OF CAN. NO. OF CREW SPECIES KG |C|KG KG KG KG lc. KG C KG

AREA		DATE						NO. OF LANDED(Mi)							
LANDIN	G CE	NTRE	1	<del></del>						<u>NA</u>	ME OI	FREC	ORDE	R	
SPECIE S	V	VEIGI	IT AN	ND VA	LUE	OF FI	SH LA	NDEI	BY S	AMPI	LE BO	ATS	SAI	MPLE '	ТОТАІ
		1		2		3		4		5		6		7	
	lb	C	lb	C	lb	C	lb	С	lb	C	lb	C	lb	С	
<del></del>															
	<del> </del>	-		<del></del>					-				-		
	<u> </u>	-		-										<del> </del>	
		+		_	+			<del>-  </del> -	-		<b> </b>	_	+		1
	ļ		_		_										
	<u> </u>					+-		-							<del> </del>
							-		<b></b> -		+				
		<u> </u>													
			-			+					-				
	1	1	1	- 1	1	l l	ı	1		i		ı		1	1

. 211 -

#### 表2-7-1 (3). Industrial漁業の漁獲統計調査原票記載項目

- 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 A BSENT 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 PROT PRIOR TO NEXT TRIP
- 13. REMARKS

### 表2-7-2(1). 年間魚種別漁獲量(1985)

LONGFINNED HERRING	Canoes 7492.0	Inshore 410.4	Industrial	Shrimpers	Tuna	Tota. 7902.4
SOLES	101.7	95.6	<u> </u>			197.3
HAKE	101.7	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	0 40.0		-	13886.0
GRUNTS	239.6	120.2			<del></del>	359.8
CASSAVA DRUM	556.6	300.7	341.5			1198.8
PAGELLUS BELLOTTII(YIYIWA)	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					<u>1037.2</u>
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	0.0				4566.3
SWORDFISH	24.6	0.3			- 0000	24.9
TUNA-LIKE FISHES	0540.77	F 4 9			6803.8	6803.8 2596.9
RIBBONFISH	2542.7	54.2 119.0				
CHUB MACKEREL SKATES	$\frac{45.1}{273.7}$					164.1 332.5
SHARKS		58.8				
	786.6	15.1 81.9	32.3			$\frac{801.7}{114.2}$
BIGEYE FISH CATFISH	1.6	0.6	32.3			$\frac{114.2}{2.2}$
FLYING GURNARD	0.1	115.2			<del></del>	115.3
SCAD MACKEREL	1680.2	186.2	98.5			1964.9
RAINBOW RUNNER	1000.2	7.3	50.0			7.3
CHROMIS		49.4		<del>_</del>		49.4
OTHERS	681.8	268.9	2822.9		<del></del>	3773.6
CRABS	301.0	200.0	2022.0			0.0
LOBSTERS	21.8					21.8
SHRIMPS	106.8	18.1	8.3			133.2
CUTTELFISHES	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

# 表2-7-2(2). 年間魚種別漁獲量(1986)

	Canoes	Inshore	Industrial	Shrimpers	Tuna	Total
LONGFINNED HERRING	6641.2	232.2				6873.4
SOLES	249.4	117.1				400.2
HAKE		0.2				0.2
GROUPERS	813.4	42.4				1001.7
SNAPPERS	139.6	40.1	308.4			488.1
BURRITO	19234.1	1590.1	1207.7			22031.9
GRUNTS	<u>590.1</u>	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			53 <u>52.4</u>
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	<u>6111.</u> 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
CUTTELFISHES	152.7	66.4	1135.6			1354.7
OCTOPUS	0.0		i			0.0
mom v T	100005		1,5=0		0.4740.0	
TOTAL	188985.4	21894.4	14076.5	0.0	34719.9	259676.2

#### 表2-7-2 (3). 年間魚種別漁獲量(1987)

	Canoes	Inchara	Industrial	Shrimpers	Tuna	Total
LONGFINNED HERRING	9965.1	465.1	Industrial	Similarpers	iuna	10430.2
SOLES	256.6	155.6	144.6			556.8
HAKE	200.0	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				
CASSAVA DRUM	1822.8		213.4 171.3	·		1285.0
PAGELLUS BELLOTTII(YIYIWA)		384.7	1/1.5			2378.8
	7417.8	371.3				7789.1
DENTEX ANGOLENSIS (BALA)	559.6	0.7	111	·		560.3
DENTEX FILOSUS (TSILE)	1132.1	2.1	11.1	<u>L</u>		1145.3
P.EHRENBERGI & D.CANARIENSIS	583.8	133.8				717.6
D.CONGOENSIS (YEKE)	44.3	6.7		<del></del>		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				3 <u>2</u> 4.8
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	<u>-</u>		1631.6
BIGEYE FISH	413.0	116.8	327.2	+		857.0
CATFISH	9.0	1.4	~	1		10.4
FLYING GURNARD	6.0	92.0	554.2	0.0	0.0	652.2
SCAD MACKEREL	0.0	<i>52.0</i>	00-2.2	0.0	0.0	0.0
RAINBOW RUNNER						0.0
CHROMIS			<del></del>			0.0
FLYING FISH	242.7		<del></del>			242.7
MARINE FISHES N.E.I	1202.8	148.3	3280.6			4631.7
CRABS	239.1	170.0	0200.0			239.1
LOBSTERS	734.7	15.0	3.8	·		753.5
SHRIMPS	1455.4	144.3	2.4			1602.1
CUTTELFISHES	44.7	134.4	1688.1			1867.2
OCTOPUS	44.1	104.4	309.4			309.4
OCTOFOR	- <del></del>		303.4			505.4
TOTAL	261124.4	14931.4	13854.7	0.0	33465.1	323375.6
IVIAL	40114 <del>1.4</del>	14001.4	10004.7	0.0	JU-100.1	020010.0

# 表2-7-2(4). 年間魚種別漁獲量(1988)

	Canoes	Inshore	Industrial	Shrimpers Tuna	Total
LONGFINNED HERRING	3979.9	286.3	mausurar	Dinimpers Tuna	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		i	422.2
DENTEX FILOSUS (TSILE)	3204.2	0.3	0.1		3204.6
P.EHRENBERGI & D.CANARIENSIS		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)	-,0,5	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	<del></del>		172.8
SHRIMPS	1039.8	137.4	0.1		1177.3
CUTTELFISHES	42.2	102.7	1580.7		1725.6
OCTOPUS	<del></del>		<del></del> -i-	0.0	0.0
TOTA I	044040.0	7410.5	0005.0	0.0 05400.0	20220
TOTAL	244042.2	7416.5	9005.2_	0.0 35433.3	295897.2

# 表2-7-2 (5). 年間魚種別漁獲量(1989)

	Canoes	Inshore	Industrial	Shrimpers	Tuna	Tota
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	<del></del>	1413.6
PAGELLUS BELLOTTII(YIYIWA)	7695.2	274.0	805.9	1.6		8776.7
DENTEX ANGOLENSIS (BALA)	58.0	1.1	000.5	1.0		59.1
DENTEX ANGOLENSIS (BALA) DENTEX FILOSUS (TSILE)	1377.8	3.6	270.5			1651.9
P.EHRENBERGI & D.CANARIENSIS			535.2	0.0		
	1269.2 31.8	82.7	030.2	0.2		1887.3
D.CONGOENSIS (YEKE)		4.4	00.0		<del></del>	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		1		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	000.4	0.0	0.0	0.0	16.4	16.4
SAILFISH	465.4	0.0	0.0	0.0	0.0	465.4
SWORDFISH	155.5	0.0	0.0	0.0	0.0	$\frac{465.4}{156.2}$
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
CUTTELFISHES	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
					-	

# 表2-7-2(6). 年間魚種別漁獲量(1990)

	Canoes		Industrial	Shrimpers	Tuna	Tota
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	40.4		258.5
OTHER SNAPPERS	17068.7	1441.1	1721.3	46.4		20277.5
BURRITO BURRO	269.7 174.8	45.3 9.4	8.0 17.8	1.0 0.4		324.0
RONCADOR	1384.6	158.2	37.3	21.8		202.4 1601.9
CASSAVA DRUM	4625.7	190.0	1038.2	16.1	<del></del>	5870.0
PAGELLUS BELLOTTII(YIYIWA)	400.0	5.1	1000.2			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.EHRENBERGI(SIKASIKA)	102.8	36.2	41.0			180.0
D.CONGOENSIS (YEKE)	1.7	0.2	56.5			58.4
SEA BREAMS N.E.l.	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)	40.40.4	39.7				39.7
CARANX RHONCUS(EMULE) CARANX HIPPOS	4948.4 1226.3	265.9 109.9	20.0	1.0	<del></del>	5214.3
MOONFISH	7499.4	314.0	45.8	7.8		1357.2 7867.0
BUMPER	43166.5	2421.0	40.0	1.0		45587.5
ROUND SARDINE	14549.0	941.4				15490.4
FLAT SARDINE	218.1	V 11.1	1923.6			2141.7
SARDINELA N.E.I.	2365.9	0.7	1023.0		<del></del>	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 BIGEYE TUNA	406.1				98.0	98.0
SAILFISH	145.1	2.6				$\frac{406.1}{147.7}$
SWORDFISH	676.1	3.1		<del></del>	3496.2	4175.4
TUNA-LIKE FISHES	1427.5	83.6	4.7	2.8	5450.2	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)	<del></del>	0.0				0.0
RAINBOW RUNNER	0.0	0.6	05000			0.6
CHROMIS ELVING FIGH	1187.9	9.5	9536.9	050.0	<del></del>	10734.3
FLYING FISH MARINE FISHES N.E.I	201.6	0.4	9002.4	359.8		9362.2
CRABS	321.6 112.8	0.4 3.7		7.8		322.0
LOBSTERS	2326.4	122.2	5.7 2.2	186.0	<del>-</del>	130.0
SHRIMPS	8.2	34.2	1907.7	30.5		2636.8 1980.6
CUTTELFISHES	0,2	07.41	137.1	1.5		138.6
OCTOPUS			101.1		<del>-</del>	0.0
	-		<del>-</del>	···	<del></del>	0.0
TOTAL	236920.3	9224.0	35163.2	725.7	40802.9	322836.1

### 表2-7-2(7). 年間魚種別漁獲量(1991)

	Canoes	Inshore	Industrial	Shrimpers	Tuna	Total
LONGFINNED HERRING	6676.8	337.3	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	1.3
GROUPERS	391.3	1.0	76.6		0.0	470.2
SNAPPERS/RED	583.8	1.4	50.7	0.7	0.0	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	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	0.0	0.0	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	0.0	0.0	160.1
					0.0	470.3
SEA BREAMS N.E.I.	3.4	8.3 5.8	451.8	6.8 0.0	0.0	
RED MULLET			0.0		0.0	6.8
SPADE FISHES	2204.4	10.8	12.9 25.5	0.8		2228.9
BARRACUDAS	2281.5	96.5		29.8	0.0	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
CUTTELFISHES	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
·			<del></del>			

# 表2-7-2(8). 年間魚種別漁獲量(1992)

	Canoes		Industrial	Shrimpers	Tuna	Total
LONGFINNED HERRING	4587.9	363.5	1100	140		4951.4
SOLES	82.7	14.8	110.3	14.9		222.7
HAKE	107.0	0.2	FC 0			0.2
GROUPERS SNAPPERS/RED	167.3 501.4	0.7	56.8			224.8
SNAPPERS/RED SNAPPERS/GREY	88.8	$\frac{0.4}{0.3}$	$\frac{28.6}{24.3}$	-		530.4 113.4
OTHER SNAPPERS	00.0	0.3	24.3			0.0
BURRITO	9564.4	619.3	755.4	84.8		11023.9
BURRO	419.9	7.2	18.1			448.5
RONCADOR	413.3	1.4	50.4			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	000.1	0.0		284.3
DENTEX FILOSUS (TSILE)	742.8	0.8	96.1			839.7
P.EHRENBERGI(SIKASIKA)	774.8	4.8	749.7	6.8		1536.1
D.CONGOENSIS (YEKE)	144.9	6.2				151,1
SEA BREAMS N.E.1.		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				<u> 14410.1</u>
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	- 21 1				85384.4
BONITO	16.6	21.4				38.0
KINGFISH	892.3	6.7				899.0
FRIGATE MACKEREL	3978.9	93.6		<del></del>		4072.5
LITTLE TUNA SKIPJACK TUNA	1766.3 574.0	3.0			010000	1766.3
YELLOWFIN TUNA	11960.5	70.6			21336.3 6253.8	21913.3 18284.9
BIGEYE TUNA	11900.5	10.0	_		95.8	
SAILFISH	301.0				90.0	295.2
SWORDFISH	69.5					301.0 69.5
TUNA-LIKE FISHES	123.2	-	- <del></del>		3089.7	3212.9
RIBBONFISH	4268.4	72.6	0.2	<del></del>	9009.1	4341.2
CHUB MACKEREL	9819.2	1772.6	376.6	13.3		11981.7
SKATES	221.0	8.8	070.01	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	200,0	9.0				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		i		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

### 表2-7-2 (9). 年間魚種別漁獲量(1993)

LONGFINNED HERRING SOLES HAKE GROUPERS SNAPPERS/RED SNAPPERS/GREY	2671.3 117.5	323.9 12.0	91.5	26.3		2995.2
HAKE GROUPERS SNAPPERS/RED		12.0	O 1.01			247.3
GROUPERS SNAPPERS/RED	323.0	I		20.0		0.0
SNAPPERS/RED		0.6	60.2	1.1		384.9
	720.0	1.2	8.8			730.0
	162.9	0.7	1.7		-	165.3
OTHER SNAPPERS	102.0	0.7	<u> </u>			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		i		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.1.		0.5	432.0	10.3		442.8
RED MULLET	65.9	1.8	91.0	4.3	į	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 HARRENGULA	1136.7	1.5				1138.2
ANCHOVY	620.5 81349.7					620.5 81349.7
BONITO	4.9	0.8	<del></del>			5.7
KINGFISH	455.8	6.8	3.0			465.6
FRIGATE MACKEREL	4369.1	158.4	0.0			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
CUTTELFISHES	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

# 表2-7-2 (10). 年間魚種別漁獲量(1994)

	Canoes		TITO GOVE ICE	Shrimpers	Tuna	Total
LONGFINNED HERRING	2371.4	438.4				2809.8
SOLES	66.8	15.7	107.4			231.1
HAKE	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			597.0
SNAPPERS/GREY	112.5	0.3	6.7			119.5
OTHER SNAPPERS	10171	070.0		41.4.0		0.0
BURRITO	16171.4	656.8	972.5			18215.5
BURRO	548.0	17.5	4.9			<u>575.5</u>
RONCADOR	174.5	0.8	3.5			178.8
CASSAVA DRUM	696.7	300.1	79.9			1103.5
PAGELLUS BELLOTTII(YIYIWA)	4896.9	53.2	614.6	69.9		5634.6
DENTEX ANGOLENSIS (BALA)	182.4 493.9	1.0	910.4			183.4
DENTEX FILOSUS (TSILE) P.EHRENBERGI(SIKASIKA)	95.6	18.1	$\frac{319.4}{671.3}$			813.3
D.CONGOENSIS (YEKE)	91.7	10.1	20.0			834.0 111.7
SEA BREAMS N.E.I.	66.0	0.4	$\frac{20.0}{45.7}$			165.0
RED MULLET	121.5	17.0	50.8			189.5
SPADE FISHES	0.9	4.9	1.0		<del></del>	6.8
BARRACUDAS	1074.4	8.4	11.4			1094.6
THREADFINS	3132.2	21.9	68.7			3246.5
TRIGGER FISHES	9.7	0.4	0.6			3240.5 10.7
KPANLA	0.7	62.2	2083.9		-	2537.0
CARANX CHRYSOS(ODZE ONYE)	<del>                                     </del>	14.4	2000.0	000.0		14.4
CARANX RHONCUS(EMULE)	3809.7	82.9	147.5		****	4040.1
CARANX HIPPOS	5196.5	406.9	227.0			5603.4
MOONFISH	457.3	43.2	0.6	-		501.1
BUMPER	4511.6	41.0	28.8			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	<u>253</u> 92.1
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	0.4.0	0.0	5424.5	5436.7
RIBBONFISH	1048.8	56.7	34.0			1139.8
CHUB MACKEREL	3354.7	427.5	1698.0			5480.2
SKATES	283.1	12.1	0.9			296.1
SHARKS BIGEYE FISH	1163.0	6.9	1.0			1170.9
	16.3	0.1	0.2		<del></del>	16.6
CATFISH	11.1	0.4	2.3			0.2
DECAPTERUS(GYASE)	296.6	0.4	661.4			13.8 958.0
RAINBOW RUNNER	87.9	9.2		I 1		97.1
CHROMIS	01.0	0.2	<u></u>	<del></del>		$\frac{91.1}{0.0}$
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	0011.0	00.4	<del></del>	462.4
LOBSTERS	509.2	0.2	0.8			510.2
SHRIMPS	907.4	83.0	39.7	277.1		1307.2
CUTTELFISHES	JU1.3	58.5	2329.8	$\frac{277.1}{7.5}$		2395.8
OCTOPUS			72.2	0.6		72.8
	<del> </del>			0.0		0
				1	,	

### 表2-7-2 (11). 年間魚種別漁獲量(1995)

I OMETIN TO THE PARTY	Canoes		Industrial	Shrimpers	Tuna	Tota
LONGFINNED HERRING	2724.4	326.7		<u> </u>		3051.
SOLES	237.3	9.7	130.1	29.9		407.0
HAKE	977 9		20.7			0.0
GROUPERS	275.3 576.2	0.4	$\frac{30.7}{49.2}$			306.4
SNAPPERS/RED SNAPPERS/GREY	119.4	0.8	0.4			626.2
OTHER SNAPPERS	119.4		0.4			119.8
BURRITO	12488.7	555.7	974.6	510.0		0.0 14529.0
BURRO	217.3	0.7	25.4	1.1		14529.0 244.5
RONCADOR	260.9	0.7	17.2	<u></u>		278.6
CASSAVA DRUM	577.9	22.4	88.5	8.9		697.
PAGELLUS BELLOTTII(YIYIWA)	3559.6	26.4	732.5	61.7		4380.2
DENTEX ANGOLENSIS (BALA)	591.0	20.4	102.0	01.7		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	2.0	10 1.1	00.0		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
BONITO	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			20000 0	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	10.0	<del></del>		2050.0	103.0
TUNA-LIKE FISHES	60.4	12.0	99.0		3859.0	3931.4
RIBBONFISH	1729.5 8323.1	71.2	22.0 5272.7	7.0		1822.7
CHUB MACKEREL	322.4	1440.8 9.2	6.2	7.0		15043.6 337.8
SKATES SHARKS	1110.8	2.1	2.4		<del></del>	1115.3
	34.5	0.5	51.1			86.1
BIGEYE FISH CATFISH	0.0	0.0	0.0	0.0	0.0	0.0
FLYING GURNARD	0.0	0.0	7.6	0.0	0.0	8.3
DECAPTERUS(GYASE)	551.5	0.1	1208.0		<del></del>	1759.5
RAINBOW RUNNER	1.6		1200.0	<del></del>	<del>-</del>	1.6
CHROMIS	0.0	0.0	0.0	0.0	0.0	0.0
FLYING FISH	6.7	0.0		0.0		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	<del></del>	2227.7
CUTTELFISHES	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

# 表2-7-2 (12). 年間魚種別漁獲量(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	<b>70.0</b>		1584.2
P.EHRENBERGI(SIKASIKA)	889.1	6.2	481.4	70.9		1447.6
D.CONGOENSIS (YEKE)	100.9	0.7	25.0			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	4.0		1763.4
THREADFINS	3050.4	15.8	75.4	4.6		3146.2
TRIGGER FISHES	9.8 482.0	0.3 11.9	7.1 3026.7	420.6		17.2
KPANLA CARANX CHRYSOS(ODZE ONYE)	482.0	12.5	3026.7	420.6	<del></del>	3941.2
CARANX RHONCUS(EMULE)	2994.2	48.1	130.7	128.2		12.5
CARANX HIPPOS	2753.9	129.6	130.7	120.2		3301.2 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	92.0	0.2		118408.2
FLAT SARDINE	13501.3	118.1		···-		13619.4
SARDINELA N.E.I.	85.6	110.1	3608.2	0.1		3693.9
BONGA /SHAD	1196.2	0.3	3333.2	0.1		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			<u>2542</u> .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		202.0		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	000.5		134.0
SHRIMPS	1104.5	181.3	1.2	266.8		1553.8
CUTTELFISHES		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
IVIIII	200243.0	0004.0	₹0100'9	2030.1	0 (404. (	011000.1

### 表2-7-2 (13). 年間魚種別漁獲量(1997)

LONGELYNIED HEDDING	Canoes		Industrial	Shrimpers	Tuna	Tota
LONGFINNED HERRING	3898.8	389.7	9044	16.8		4305.3
SOLES HAKE	106.3	28.4	204.4	<u></u>		339.
GROUPERS	496.2	0.0	40.6	1.0	<del></del>	0.0
SNAPPERS/RED	426.3 88.2	0.8	49.6 47.9	1.0		$\frac{477.7}{137.1}$
SNAPPERS/GREY	29.7	$\begin{array}{c} 1.0 \\ 8.4 \end{array}$	5.8			
OTHER SNAPPERS	29.1	0.4	9.၀		_	43.9
BURRITO	17388.1	900.5	1094.7	432.9		0.0 19816.2
BURRO	414.0	16.7	2.8	402.0		433.5
RONCADOR	29.1	10.7	14.1	<del></del>		43.2
CASSAVA DRUM	1330.8	330.8	312.0	21.5		1995.1
PAGELLUS BELLOTTII(YIYIWA)	6387.8	18.7	1105.8	4.4		7516.7
DENTEX ANGOLENSIS (BALA)	489.7	10.7	1100.0	7,7		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	700.0	31.0		119.0
SEA BREAMS N.E.l.	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 SKIPJACK TUNA	269.1	69.8			0.4155.1	338.9
YELLOWFIN TUNA	1006.2	0.4			24177.1	25183.7
BIGEYE TUNA	374.6	3.6			23249.6	23627.8
SAILFISH	162.7				27.5	27.5
SWORDFISH	103.0					$\frac{162.7}{103.0}$
TUNA-LIKE FISHES	302.4	1.2			6170.6	$\frac{103.0}{6474.2}$
RIBBONFISH	2702.9	155.5	7.7		6170.6	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	0.0			335.1
CATFISH	23.7	0.3				24.0
FLYING GURNARD	7.9	67.7	0.1			75.7
DECAPTERUS(GYASE)	677.2	01.7	976.5			1653.7
RAINBOW RUNNER	52.1	13.2	0.0.0			65.3
CHROMIS	<u> </u>	40.84				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
CUTTELFISHES	32.0	14.1	3296.5	12.3		3354.9
OCTOPUS			57.9	0.1		58.0

# 表2-7-2(14). 年間魚種別漁獲量(1998)

	Canoes		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			<u>254.5</u>
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.EHRENBERGI(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	<del></del>		3.7
BARRACUDAS	859.9	6.0	5.6	<del></del>		871.5
THREADFINS	743.0	28.8	1.7	0.6		774.1
TRIGGER FISHES	0.6	20.0		0.0		0.6
	357.2	71.1	9159 7	14.7		3601.7
KPANLA	307.2		3158.7	14.7		
CARANX CHRYSOS(ODZE ONYE)	1050 0	0.9	202.0	00.4		0.9
CARANX RHONCUS(EMULE)	1972.0	334.7	383.0	62.4		2752.1
CARANX HIPPOS	2809.4	81.1	0.0			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	10.0			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				250.0	105.9
TUNA-LIKE FISHES	5.5	9.2	22.01		359.2	373.9
RIBBONFISH	1757.4	257.8	32.0			2047.2
CHUB MACKEREL	7563.1	773.3	1128.1	0.4		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	9000 5		000.0			0.0
DECAPTERUS(GYASE)	2028.5		960.9			2989.4
RAINBOW RUNNER	139.6	0.8				140.4
CHROMIS ELVING FIGH	0.3	0.1				0.4
FLYING FISH	50.8	0.4	0050 5	1000		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	910.0	0.2	121.0	i	65.1
SHRIMPS	1109.8	216.2	0.6	121.8		1448.4
CUTTELFISHES	314.7	35.3	2920.8	17.6		3288.4
OCTOPUS			36.2			36.2
TOTAL	100450.0	0.2.2.5	100.47.5	7500	05-0-	080000
TOTAL	189458.6	6137.4	16847.9	652.6	65567.7	278664.2

### 表2-7-2 (15). 年間魚種別漁獲量(1999)

LONGERN WED THE DRIVE	Canoes		Industrial	Shrimpers	Tuna	Tota
LONGFINNED HERRING	2883.1	378.5	1500	00.0		3261.6
SOLES	71.0	20.5	152.9	39.9		284.3
HAKE GROUPERS	175 1					0.0
SNAPPERS/RED	175.1 110.0	3.4	5.5			180.6
SNAPPERS/GREY	60.0	3.4				113.4 60.0
SNAPPERS UNSPECIFIED	00.0					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	0.2	10.4	0.0		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	10.7	107.1	10.5		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.1.	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		-	51000 O	574.6
SKIPJACK TUNA	4587.0	0.1	_		51283.9	55871.0
YELLOWFIN TUNA BIGEYE TUNA	1078.6 30.6	4.1			28282.2	29364.9 3710.7
	1814.6				3680.1	1814.6
SAILFISH SWORDFISH	389.1		·			389.1
TUNA-LIKE FISHES	0.3	1.4			306.3	308.0
RIBBONFISH	1136.8	112.3	17.8		300.3	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	0.0	220.0			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		i			87.2
SHRIMPS	966.4	164.9		149.3		1280.6
CUTTELFISHES	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

# 表2-7-2 (16). 年間魚種別漁獲量(2000)

* ONGRED HERRING	Canoes		Industrial	Shrimpers	Tuna	Total
LONGFINNED HERRING	3034.0	306.7	151.0	100.0		3340.7
SOLES	58.1	23.6	151.8	160.3		393.8
HAKE GROUPERS	91.2		2.6			93.8
SNAPPERS/RED	170.0		45.2			
SNAPPERS/RED SNAPPERS/GREY	121.5		40.2			$\frac{215.2}{121.5}$
SNAPPERS UNSPECIFIED	154.7	:				154.7
BURRITO	8864.8	450.4	656.1	60.4		10031.5
BURRO	94.0	0.8	000.1	00.4		94.8
RONCADOR	55.0	0.0				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	01.2	010.7	01.0		563.9
DENTEX FILOSUS (TSILE)	872.3		20.6			892.9
P.EHRENBERGI(SIKASIKA)	954.9	27.5	250.8	5.5		1238.7
D.CONGOENSIS (YEKE)	350.3	21.0	200.0	0.0		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	30.7			1.8
BARRACUDAS	746.8	3.7	8.9	<del></del>		75 <b>9</b> .3
THREADFINS	1917.5	29.1	0.0			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
CUTTELFISHES	101.3	63.2	1259.9	380.5		1804.8
OCTOPUS			4.3			4.3
mon.v.	0.5.1.5					
TOTAL	275964.7	8668.1	15454.8	1223.9	53255.0	354566.5

### 表2-7-2(17). 年間魚種別漁獲量(2001)

LONGFINNED HERRING SOLES HAKE	3136.4 47.2	460.2 32.5	110.0		Tuna	3596.€
	47.2	32.5	1100			
HAKE			119.0	27.9		226.6
	i					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	1121	10.1			2.3
KPANLA	1247.6	0.6	275.2	16.3		1539.7
CARANX CHRYSOS(ODZE ONYE)	1211.0	0.0	210.2	10.0		0.0
CARANX CHRISOS(ODZE ONTE)	2439.7		143.5	3.1		2586.3
CARANX HIPPOS	2322.9	202.3	140.0	9.1		2525.2
MOONFISH	1040.4	57.4	2.9	<del></del>		1100.7
BUMPER	6219.0	221.2	67.7			6507.9
ROUND SARDINE	64103.6	3217.0	07.1			67320.6
FLAT SARDINE	15853.4	53.0				15906.4
SARDINELA N.E.I.	1618.3	33.0	3133.0			4751.3
BONGA /SHAD	281.9		0100.0			281.9
HARRENGULA	1823.5					1823.5
ANCHOVY	68174.6		-	<del></del>		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	101.4				2161.9
SKIPJACK TUNA	3727.0			-	56417.2	60144.2
YELLOWFIN TUNA	3183.7	0.9			29303.3	32487.9
BIGEYE TUNA	40.4	0.9			2357.2	2397.6
SAILFISH	529.6				2001.2	529.6
SWORDFISH	530.2					530.2
TUNA-LIKE FISHES	37.6	2.1		-	728.8	768.5
		171.0	28.0		120.0	1849.4
RIBBONFISH	1650.4 9574.3	171.0	3944.7			13519.0
CHUB MACKEREL		7.1				
SKATES	797.4		8.2			812.7
SHARKS BLOBYE FIGH	2085.9	0.4	7.0	-		2093.3
BIGEYE FISH	152.6		90.3			242.9
CATFISH	0.3	0.1	0.5		-	0.4
FLYING GURNARD	28.8	900 0	8.5			37.3
DECAPTERUS(GYASE)	1596.6	203.3	666.5	-		2466.4
RAINBOW RUNNER	88.6					88.6
CHROMIS	22.0					0.0
FLYING FISH	23.9	0.480.0	0050.0	110 =		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	216.5				342.0
SHRIMPS	1118.3	240.3	1.9			1360.5
CUTTELFISHES		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

表2-7-3 (1). 1999年における月別漁獲量 (Artisanal漁業)

											·	<del></del>		(tons)
Mor	th	1	2	3_	4	5_	6	7	8	9	10	11	12	Total
S. coeru/D. canariensis	12	2.7	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
P. bellottii	1,03	7.4	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
D. angolensis	12	2.5	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
D. congoensis	5	9.7	. 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
Pseudotolithus sp.	8	5.2	31.7	16.7	12.6	174.1	6.6	6.8	12.2	7.1	6.1	45.6	35.8	440.3
P. prayensis		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
B. auritus	1,25	3.4	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
P. incisus	1	1.9	19.7	35.4	16.9	3.7	16.0	14.3	7.6	19.8	4.0	8.5	42.8	200.5
P. jubelini	2	9.4	4.0	6.6	14.3	40.5	6.2	4.3	3.4	2.0	2.8	1.9	3.5	118.8
L. fulgens/L. agennes		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
D. africana		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
Caranx rhonchus(D. rhonchu	s) 17	1.0	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
C. chrysurus	94	7.1	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
S. dorsalis	1	8.1	5.0	5.4	4.8	5.0	5.8	0.5	22.4	78.9	60.9	130.7	106.9	444.4
Galeoides sp.	5	6.6	57.3	27.0	19.3	59.0	61.9	19.9	19.6	22.9	86.2	69.5	42.1	541.4
B. capriscus		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)	1	4.4	22.0	52.3	43.6	31.9	47.0	51.9	176.9	145.0	202.7	136.1	42.5	966.4
S. officinalis		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

表2-7-3 (2). 1999年における月別漁獲量 (Semi-Industrial漁業)

													(tons)
Month	1	2	3	4	5	6	7	8	9	10	11	12	Total
S. coeru/D. canariensis	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
P. bellottii	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
D. angolensis	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
D. congoensis	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
Pseudotolithus 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
P. prayensis	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
B. auritus	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
P. incisus	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
P. jubelini	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
L. fulgens/L. agennes	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
D. africana	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
Caranx rhonchus(D. rhonchus)	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
C. chrysurus	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
S. dorsalis	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
Galeoides 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
B. capriscus	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
S. officinalis	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

表2-7-3 (3). 1999年における月別漁獲量 (Industrial漁業)

Month	1	2	3	4	5	6	7	8	9	10	11	12	Total
Soleidae							<del></del>						
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										1.0	01.1	20,4	
Merluccius spp.								<del></del> -	<del></del>	· <del></del>			
Ariidae				·									
Dentex macrophthalmus			·		<del></del> -								
Dentex angolensis													
Dentex spp.								<del></del> -					
Pagellus acarne								7.00			<del></del>		
Pagellus bellottii	52.7	37	28.3	33.1	24.6	10.5	13.6	9	106.7	47.0	20.0	50.0	105
Pagellus erythrinus			20.0	00.1	24,0	10.0	10.0		100.7	47.9	30.8	73.2	467.4
Pagellus spp.													
Spondyliosoma cantharus	<del></del>												
Sparidae	66.3	71	107.7	78.4									
Pseudotolithus elongatus	00.3	{IL	197.7	15.4	12.2	24.6	80.9	54.6	47.2	91.8	67.7	78.4	717.8
Pseudotolithus 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	<del></del>					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				·									
Balistes capriscus	- <del></del>	<del></del>							,				
Pomatomus saltatrix							<del>-</del>						
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						74.4							
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				-								0.9	340.0
Engraulis encrasicolus												<del></del>	
Clupeoidei											<del></del>		
Scomber japonicus	283.1	84.3	97.6	50.1	148.1	591.8	99.6	71,6	191.5	21.2	13.5	10.0	1005.0
Trichiuridae	2.4		2.4	00.1	10.4	0.6	0.7	— <del>71.0</del> 0.1				13.3	
Elasmobranchii	0.1						0.1	0.1	0.3	0.3	0.6		17.8
Rajiformes				<del></del>			0.1					0.2	0.3
Crabs n.e.I. /Crabs n.c.a.	·					0.3			0.9	0.4	0.2		1.8
Panulirus spp.	<del></del>								_ <del></del> _				
Palinurus spp.			<del></del>								·		
Penaeus notialis			<del>-</del>										
Parapenaeopsis atlantica										<del></del>			
Perapenaeus longirostris													
Crustacea													
Gastropoda						·	<u></u>						
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									<del></del>				
Mollusuca				_		· · ·					<del></del>		
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

表2-7-4. 1999年における魚種別の月別水揚げ金額 (Artisanal漁業)

			<del> </del>									(1,000,0	00cedis)
Month	1	2	3	4	5	6	7	8	9	10	11	12	Total
S. coeru/D. canariensis	229	587	775	417	323	826	496	281	261	179	474	164	5,012
P. bellottii	1,624	2,723	366	2,208	1,813	1,073	2,508	1,146	764	905	2,825	3,132	21,086
D. angolensis	176	122	259	245	147	332	120	249	906	487	230	670	3,944
D. congoensis	68	112	18	137	77	32	43	44	762	627	124	161	2,204
Pseudotolithus sp.	66	20	12	12	181	9	16	14	7	7	39	25	408
P. prayensis	1	2	7	0	15	0	0	1	1.	2	1	3	34
B. auritus	602	453	415	260	410	214	196	295	787	629	2.152	487	6,900
P. incisus	13	25	53	23	5	21	13	8	24	5	8	32	228
P. jubelini	17	6	7	12	32	5	4	3	2	3	$\frac{3}{2}$	3	96
L. fulgens/L. agennes	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
D. africana	0	0	29	2	7	1	0	0	0	<u> </u>	0	<u>,</u> _	39
Caranx rhonchus(D. rhonchus)	217	122	247	49	249	242	83	284	426	129	2	25	2,076
C. chrysurus	395	227	168	86	222	207	72	647	665	1,003	492	199	4,384
S. dorsalis	11	5	5	5	6	6	1	45	82	38	57	99	359
Galeoides sp.	49	43	30	27	60	64	21	21	34	102	83	40	575
B. capriscus	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
S. officinalis	0	0	132	637	8	0	0	604	32	15	2	0	1,430

収集資料

#### 収集資料

- 以下の文献を現地で収集した。
- 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.

