

Table 1-8-3 (2) The data of body length and body weight of survey-target species

Epinephelus aeneus

The 2nd survey (4 Oct. - 18 Oct. 2000)

St.2	TL(mm)	W(g)	St.11	TL(mm)	W(g)	St.15	TL(mm)	W(g)	St.34	TL(mm)	W(g)	St.48	TL(mm)	W(g)
1	733	5270	1	398	760	1	356	583	1	606	3360	1	916	#####
2	419	786	2	485	1134	2	329	411						
3	336	432	3	453	1189	3	435	1242	St.36	TL(mm)	W(g)	St.49	TL(mm)	W(g)
			4	326	375				1	308	333	1	1094	#####
			5	301	311	St.17	TL(mm)	W(g)						
St.9	TL(mm)	W(g)				1	890	3460	St.39	TL(mm)	W(g)	St.50	TL(mm)	W(g)
1	342	498	St.12	TL(mm)	W(g)				1	374	655	1	688	4980
2	463	1252	1	533	1752	St.18	TL(mm)	W(g)						
3	459	1160				1	516	1922	St.41	TL(mm)	W(g)			
4	382	576							1	865	7640			
5	708	3940												

The 3rd survey (25 Jul. - 13 Aug. 2001)

St.6	TL(mm)	W(gr)	St.11	TL(mm)	W(gr)	St.17	TL(mm)	W(gr)	St.33	TL(mm)	W(gr)	St.39	TL(mm)	W(gr)
1	702	4710	1	335	454	1	545	1976	1	329	443	1	296	335
			2	351	545	2	281	264						
			3	355	560				St.34	TL(mm)	W(gr)	St.41	TL(mm)	W(gr)
St.7	TL(mm)	W(gr)	4	339	455	St.18	TL(mm)	W(gr)	1	742	4810	1	683	9020
1	552	2262	5	284	268	1	528	1752				2	908	9570
			6	214	114				St.49	TL(mm)	W(gr)	3	912	9660
St.9	TL(mm)	W(gr)	7	351	540				1	860	9140			
1	472	1222												

The 4th survey (29 Oct. - 16 Nov. 2001)

St.2	TL(mm)	W(gr)	St.3	TL(mm)	W(gr)	St.6	TL(mm)	W(gr)	St.12	TL(mm)	W(gr)	St.32	TL(mm)	W(gr)
1	418	896	1	574	2229	1	313	351	1	308	344	1	188	82
2	469	1197										2	178	68
3	365	594	St.4	TL(mm)	W(gr)	St.8	TL(mm)	W(gr)	St.17	TL(mm)	W(gr)			
4	418	848	1	425	879	1	382	732	1	671	3600	St.37	TL(mm)	W(gr)
5	466	1352	2	441	1042							1	843	7670
6	465	1256				St.11	TL(mm)	W(gr)	St.21	TL(mm)	W(gr)			
7	357	526	St.5	TL(mm)	W(gr)	1	334	444	1	368	614	St.40	TL(mm)	W(gr)
8	338	442	1	350	491	2	338	281				1	762	5070
9	369	545	2	354	478	3	298	345	St.26	TL(mm)	W(gr)	2	275	218
10	345	446	3	343	435	4	324	443	1	226	127			
11	639	3226	4	798	6620	5	334	476				St.41	TL(mm)	W(gr)
												1	421	846

The 5th survey (20 Jul. - 5 Aug. 2002)

St.1	TL(mm)	W(gr)	St.9	TL(mm)	W(gr)	St.12	TL(mm)	W(gr)	St.34	TL(mm)	W(gr)	St.39	TL(mm)	W(gr)
1	456	1184	1	505	1627	1	229	128	1	631	2890	1	352	520
2	476	1336				2	178	66	2	648	3000			
3	539	1982	St.10	TL(mm)	W(gr)				3	546	1861	St.48	TL(mm)	W(gr)
4	408	755	1	213	98	St.13	TL(mm)	W(gr)	4	703	4490	1	723	4513
5	369	543				1	776	5630	5	488	1334			
			St.11	TL(mm)	W(gr)	St.18	TL(mm)	W(gr)	St.36	TL(mm)	W(gr)	St.49	TL(mm)	W(gr)
St.2	TL(mm)	W(gr)	1	196	80	1	781	5450	1	348	454	1	1045	15240
1	476	1321	2	191	84									
			3	181	62	St.29	TL(mm)	W(gr)	St.37	TL(mm)	W(gr)	M-2	TL(mm)	W(gr)
St.3	TL(mm)	W(gr)				1	422	899	1	385	777	1	494	1456
1	818	7880				2	445	1132						
2	882	8710												

Table 1-8-3 (3) The data of body length and body weight of survey-target species

Chloroscomburus chrysurus

The 2nd survey (4 Oct. - 18 Oct. 2000)

St.1	TL(mm)	W(g)
1	152	30
2	159	31
3	183	46
4	154	29
5	165	32
6	156	33
7	167	38
8	122	13
9	148	29
10	157	32
11	156	33
12	160	37
13	152	33
14	142	29
15	147	27
16	137	25
17	153	32
18	128	16

St.1	TL(mm)	W(g)
19	147	27
20	150	29
21	172	45
22	129	16
23	163	36
24	159	34
25	135	25
26	147	30
27	154	33
28	153	32
29	143	28

St.8	TL(mm)	W(g)
1	187	63
2	206	78
3	204	72
4	183	53
5	192	69

St.8	TL(mm)	W(g)
6	186	65
7	148	29
8	155	38
9	155	40
10	160	38
11	188	59
12	200	64
13	155	34
14	209	72
15	177	58
16	178	55
17	198	67
18	160	43
19	214	101
20	177	60
21	194	63
22	154	35
23	181	50

St.8	TL(mm)	W(g)
24	180	56
25	182	61
26	161	46
27	159	36
28	197	87
29	185	64
30	175	61
31	186	68
32	180	50
33	202	76
34	158	41
35	199	78

St.9	TL(mm)	W(g)
1	171	38
2	182	44
3	154	34
4	179	53

St.15	TL(mm)	W(g)
1	289	175
2	302	191
3	293	189

St.20	TL(mm)	W(g)
1	65	2
2	71	3
3	57	2
4	69	2
5	47	1
6	58	2
7	76	4

St.39	TL(mm)	W(g)
1	164	43

The 3rd survey (25 Jul. - 13 Aug. 2001)

St.14	TL(mm)	W(gr)
1	209	86
2	217	94
3	261	148
4	169	45
5	191	63
6	198	65
7	210	74
8	193	56
9	207	84
10	163	48
11	227	96
12	132	26
13	194	69
14	170	52
15	156	38
16	177	49
17	187	67
18	217	90
19	206	86
20	178	50
21	141	25
22	141	28
23	138	26
24	224	109
25	221	101
26	169	50
27	161	40
28	219	92
29	220	96
30	152	32
31	175	49
32	163	41
33	142	28
34	241	129
35	184	59
36	182	61
37	167	46
38	188	68
39	147	29
40	147	30

St.14	TL(mm)	W(gr)
41	129	19
42	191	67
43	197	86
44	205	79
45	197	67
46	173	51
47	184	59
48	136	25
49	209	90
50	137	28
51	168	44
52	142	27
53	171	50
54	168	49
55	236	115
56	134	22
57	175	56
58	216	93
59	137	29
60	226	110
61	163	51
62	179	54
63	199	83
64	189	79
65	128	21
66	226	120
67	139	27
68	153	34
69	173	48
70	208	96
71	166	45
72	233	104
73	206	91
74	203	82
75	185	70
76	141	29
77	183	59
78	154	34
79	205	91
80	247	123

St.14	TL(mm)	W(gr)
81	183	56
82	173	48
83	155	44
84	235	113
85	203	88
86	179	58
87	287	191
88	224	106
89	135	29
90	151	39
91	160	37
92	182	64
93	194	77
94	174	54
95	201	82
96	209	87
97	219	93
98	158	33
99	138	24
100	227	104

St.21	TL(mm)	W(gr)
1	176	58
2	164	45
3	184	63
4	145	25
5	205	74
6	165	50
7	168	57
8	192	72
9	195	63
10	204	76
11	202	70
12	181	52
13	181	47
14	178	51
15	187	66
16	174	49
17	172	69
18	170	41

St.21	TL(mm)	W(gr)
19	171	50
20	175	42
21	168	52
22	169	51
23	170	53
24	171	45
25	175	50
26	174	44
27	164	41
28	156	35
29	145	30
30	149	30
31	155	34
32	133	34
33	153	42
34	146	28
35	153	39
36	141	32
37	124	23
38	126	24
39	147	28
40	158	33
41	137	24
42	146	27
43	140	26
44	140	26
45	134	24
46	132	21
47	142	26
48	141	24
49	142	25
50	135	21
51	142	24
52	134	20
53	133	21
54	134	20
55	134	21
56	135	22

St.32	TL(mm)	W(gr)
1	289	178
2	294	166
3	248	115
4	261	133

St.39	TL(mm)	W(gr)
1	203	64
2	235	97
3	242	107
4	176	44
5	165	37
6	186	52
7	191	51
8	232	97
9	171	35
10	183	44
11	198	53
12	227	90
13	215	68
14	182	45
15	202	71
16	171	39
17	172	39
18	211	66
19	192	45
20	195	54
21	173	42
22	182	43
23	178	44
24	163	37
25	181	42
26	171	37

Table 1-8-3 (4) The data of body length and body weight of survey-target species

Selene dorsalis

The 2nd survey (4 Oct. - 18 Oct. 2000)

St.1	TL(mm)	W(g)	St.1	TL(mm)	W(g)	St.1	TL(mm)	W(g)	St.36	TL(mm)	W(g)	St.36	TL(mm)	W(g)
1	253	191	21	235	184	41	210	113	4	206	99	24	211	107
2	242	215	22	173	60	42	230	170	5	208	105	25	250	177
3	238	179	23	273	242	43	213	119	6	256	172	26	218	120
4	209	116	24	228	170	44	196	107	7	208	99	27	245	170
5	194	96	25	223	147	45	139	35	8	251	170	28	204	91
6	189	78	26	203	97				9	225	130	29	271	202
7	220	144	27	266	235				10	236	154	30	257	138
8	249	191	28	212	118	St.2	TL(mm)	W(g)	11	220	130	31	221	105
9	243	184	29	282	259	1	333	427	12	200	103	32	228	102
10	205	125	30	200	101	2	326	411	13	208	100	33	257	212
11	222	144	31	239	182	3	334	429	14	322	404	34	211	112
12	244	192	32	200	96	4	324	425	15	216	115	35	213	119
13	216	139	33	187	93	5	325	380	16	256	184	36	206	109
14	245	179	34	184	85	6	268	235	17	268	203	37	204	95
15	179	82	35	274	279	7	321	403	18	246	137	38	211	105
16	288	296	36	195	95	8	309	364	19	206	113			
17	255	190	37	206	112				20	238	156			
18	272	212	38	231	143	St.36	TL(mm)	W(g)	21	228	134			
19	215	140	39	242	167	1	305	326	22	208	104			
20	228	144	40	223	136	2	199	92	23	192	82			
						3	212	106						

The 3rd survey (25 Jul. - 13 Aug. 2001)

St.4	TL(mm)	W(gr)	St.10	TL(mm)	W(gr)	St.10	TL(mm)	W(gr)	St.14	TL(mm)	W(gr)	St.36	TL(mm)	W(gr)
1	178	69	4	141	37	16	134	30	5	193	98	5	211	98
2	157	45	5	145	36	17	136	29	6	237	156	6	208	94
3	138	33	6	137	35	18	142	33	7	238	159	7	315	326
			7	131	25	19	125	25						
St.5	TL(mm)	W(gr)	8	137	32	20	145	30	St.35	TL(mm)	W(gr)	St.38	TL(mm)	W(gr)
1	182	63	9	157	41	21	153	43	1	255	166	1	253	180
2	186	62	10	136	31							2	205	91
			11	141	34	St.14	TL(mm)	W(gr)	St.36	TL(mm)	W(gr)	3	225	115
St.10	TL(mm)	W(gr)	12	147	36	1	225	138	1	232	140	4	206	97
1	304	279	13	139	29	2	227	128	2	355	422	5	398	558
2	171	53	14	141	32	3	208	115	3	329	354	6	203	85
3	133	35	15	135	29	4	227	133	4	231	114	7	222	111

The 4th survey (29 Oct. - 16 Nov. 2001)

St.20	TL(mm)	W(gr)	St.20	TL(mm)	W(gr)	St.20	TL(mm)	W(gr)	St.20	TL(mm)	W(gr)	St.32	TL(mm)	W(gr)
1	113	34	31	127	23	61	112	29	91	117	18	17	130	18
2	118	16	32	115	15	62	111	13	92	118	17	18	106	9
3	177	58	33	105	13	63	117	15	93	111	14	19	123	14
4	120	21	34	137	23	64	123	26	94	129	24	20	128	21
5	108	14	35	108	12	65	112	14				21	101	11
6	118	17	36	115	23	66	105	15				22	126	18
7	115	15	37	108	9	67	121	18	St.26	TL(mm)	W(gr)	23	105	9
8	112	15	38	112	12	68	122	17	1	120	13	24	131	21
9	108	15	39	112	16	69	109	12	2	111	19	25	96	8
10	110	16	40	106	15	70	114	17	3	122	20	26	123	15
11	185	90	41	127	25	71	111	16	4	131	20	27	115	17
12	112	15	42	115	16	72	106	14	5	129	17	28	100	9
13	111	14	43	127	25	73	112	16	6	112	16	29	107	11
14	112	14	44	128	22	74	112	13				30	132	19
15	112	16	45	117	18	75	113	15	St.32	TL(mm)	W(gr)	31	121	19
16	111	12	46	118	16	76	108	17	1	118	16	32	111	14
17	125	25	47	111	15	77	112	21	2	132	22	33	115	16
18	110	20	48	120	19	78	115	21	3	125	19	34	125	18
19	126	20	49	115	19	79	117	20	4	132	21	35	131	20
20	117	16	50	110	14	80	117	15	5	86	7	36	112	15
21	115	15	51	105	12	81	106	11	6	98	9	37	113	16
22	108	13	52	113	17	82	122	22	7	125	18	38	112	11
23	112	16	53	122	17	83	108	13	8	118	18	39	126	17
24	110	16	54	115	11	84	113	14	9	123	18	40	137	24
25	118	19	55	126	24	85	102	10	10	126	19	41	130	20
26	115	18	56	111	13	86	108	10	11	124	17	42	110	12
27	118	17	57	109	10	87	111	19	12	120	16	43	100	9
28	122	17	58	111	21	88	118	17	13	118	16	44	112	13
29	119	21	59	120	25	89	118	16	14	123	15	45	125	17
30	115	21	60	116	15	90	106	13	15	120	15			
									16	127	19			

Table 1-8-3 (5) The data of body length and body weight of survey-target species

Lutjanus fulgens (1/2)

The 2nd survey (4 Oct. - 18 Oct. 2000)

St.1	TL(mm)	W(g)
1	303	336

St.16	TL(mm)	W(g)
1	329	505

St.18	TL(mm)	W(g)
1	298	445

St.23	TL(mm)	W(g)
1	246	204

St.25	TL(mm)	W(g)
1	301	365
2	355	595

St.25	TL(mm)	W(g)
3	293	364
4	299	393

St.25	TL(mm)	W(g)
5	287	332
6	319	442
7	269	276

St.25	TL(mm)	W(g)
8	273	317
9	315	439
10	297	322

St.25	TL(mm)	W(g)
11	291	335
12	279	320
13	308	414

St.25	TL(mm)	W(g)
14	308	416
15	297	365
16	269	313

St.25	TL(mm)	W(g)
17	315	448
18	313	404
19	306	422
20	322	490

St.28	TL(mm)	W(g)
1	333	541
2	341	509
3	299	367

St.30	TL(mm)	W(g)
1	402	872

St.34	TL(mm)	W(g)
1	312	402
2	326	490
3	318	518
4	316	438
5	325	551

St.34	TL(mm)	W(g)
6	361	569
7	328	472
8	323	481
9	342	613
10	381	956
11	305	364
12	419	1203

St.38	TL(mm)	W(g)
1	287	362
2	225	137
3	241	201
4	186	86

St.46	TL(mm)	W(g)
1	336	537
2	345	537
3	380	821
4	329	468
5	357	646

The 3rd survey (25 Jul. - 13 Aug. 2001)

St.1	TL(mm)	W(gr)
1	329	462

St.7	TL(mm)	W(gr)
1	311	394
2	308	408
3	328	462
4	360	601
5	333	552
6	295	351
7	281	302
8	308	384
9	308	369
10	315	394
11	329	489
12	340	502
13	330	516
14	315	388
15	318	441
16	348	595
17	297	370
18	355	617
19	310	375
20	363	664
21	333	489
22	282	295
23	278	278
24	322	395
25	308	372
26	277	289
27	303	373

St.7	TL(mm)	W(gr)
28	287	320
29	348	587
30	281	286
31	341	573

St.9	TL(mm)	W(gr)
1	349	520
2	348	548

St.14	TL(mm)	W(gr)
1	320	372
2	265	231
3	207	110
4	205	117
5	190	76
6	260	213
7	255	202
8	418	911
9	357	623
10	217	133
11	216	123
12	353	553
13	218	131
14	199	101
15	270	251
16	221	138
17	221	139
18	136	30
19	210	116
20	248	186

St.14	TL(mm)	W(gr)
21	135	31
22	268	227
23	209	115
24	210	111
25	201	103
26	211	110
27	219	128
28	143	38
29	149	41
30	207	101
31	158	50
32	123	23
33	135	32
34	127	27
35	146	35
36	142	35
37	154	42
38	198	96
39	196	108
40	131	31
41	137	30
42	131	26
43	147	40
44	145	37
45	139	30

St.15	TL(mm)	W(gr)
1	595	3386
2	456	1292
3	379	714

St.15	TL(mm)	W(gr)
4	371	634
5	321	452

St.16	TL(mm)	W(gr)
1	328	423
2	287	291
3	301	319
4	287	280
5	287	293

St.19	TL(mm)	W(gr)
1	348	485
2	430	1219
3	342	526
4	379	691

St.21	TL(mm)	W(gr)
1	139	35
2	120	24

St.24	TL(mm)	W(gr)
1	295	306

St.25	TL(mm)	W(gr)
1	348	514
2	340	500
3	318	385
4	396	813
5	341	475
6	343	511

St.25	TL(mm)	W(gr)
7	375	652
8	393	789

St.34	TL(mm)	W(gr)
1	306	342
2	341	438
3	321	380
4	317	360
5	356	558
6	363	476
7	322	394
8	318	400
9	317	381
10	312	366
11	338	392
12	325	424
13	313	353
14	305	326
15	337	448
16	312	355
17	318	395
18	333	433
19	347	481
20	338	478
21	324	385
22	315	361
23	317	383
24	319	382
25	351	505

Table 1-8-3 (6) The data of body length and body weight of survey-target species

Lutjanus fulgens (2/2)

The 4th survey (29 Oct. - 16 Nov. 2001)

St.24	TL(mm)	W(gr)
1	295	304
2	382	610
3	375	615
4	283	295
5	302	302
6	321	345
7	339	511
8	310	384
9	326	392
10	312	338

St.40	TL(mm)	W(gr)
1	468	1451
2	332	467
3	351	586

St.7	TL(mm)	W(gr)
1	310	414
2	335	556
3	357	638
4	323	456
5	442	1240
6	491	1686
7	390	822

St.7	TL(mm)	W(gr)
8	627	3842
9	575	2785

St.31	TL(mm)	W(gr)
1	293	312
2	328	462

St.16	TL(mm)	W(gr)
1	340	472

St.17	TL(mm)	W(gr)
1	301	352

St.18	TL(mm)	W(gr)
1	322	389

St.10	TL(mm)	W(gr)
1	167	67
2	176	67
3	183	66
4	185	75
5	173	61
6	191	90
7	173	61

St.10	TL(mm)	W(gr)
8	181	67
9	169	62
10	173	61
11	176	68
12	180	64
13	169	57
14	172	60
15	162	54
16	181	74
17	164	57
18	168	51
19	175	62
20	192	84
21	191	76
22	176	62
23	172	57
24	172	60
25	186	85
26	168	77
27	165	56
28	165	54
29	165	58
30	175	74
31	169	65

St.10	TL(mm)	W(gr)
32	169	64
33	168	61
34	161	48
35	175	68
36	178	68
37	176	65
38	178	67
39	186	71
40	172	66
41	160	48
42	185	78
43	165	58
44	159	49
45	187	75
46	196	89
47	163	55
48	171	60
49	181	61
50	172	60
51	166	59
52	179	66
53	178	70
54	168	53
55	187	72

St.10	TL(mm)	W(gr)
56	170	60
57	173	69
58	168	54
59	163	58
60	150	43
61	201	93
62	161	49
63	167	55
64	178	65
65	183	84
66	180	68
67	150	40
68	182	70
69	166	60
70	178	71
71	178	72
72	186	90
73	179	73
74	183	78
75	172	70
76	174	69
77	168	59
78	172	57
79	176	64

Table 1-8-3 (7) The data of body length and body weight of survey-target species

Dentex angolensis

The 2nd survey (4 Oct. - 18 Oct. 2000)

St.3	TL(mm)	W(gr)
1	256	221
2	174	66
3	230	159
4	128	26
5	134	30
6	141	32
7	155	48
8	132	38
9	129	29
10	131	28
11	172	66

St.3	TL(mm)	W(gr)
12	136	31
13	178	67
14	131	31
15	135	33
16	128	29
17	126	29
18	129	35
19	123	24
20	144	41
21	138	36
22	146	45

St.3	TL(mm)	W(gr)
23	136	34
24	113	18
25	124	29
26	118	24
27	118	27
28	169	67
29	125	34
30	119	29
31	139	37
32	115	24
33	156	60

St.3	TL(mm)	W(gr)
34	87	8
35	96	12
36	152	47
37	131	30
38	131	28
39	131	31
40	164	58
41	140	36
42	137	32
43	129	29
44	132	26

St.3	TL(mm)	W(gr)
45	148	42
46	124	25

St.6	TL(mm)	W(gr)
1	146	42
2	142	38
3	142	39
4	143	37

St.8	TL(mm)	W(gr)
1	92	24
2	91	23

The 3rd survey (25 Jul. - 13 Aug. 2001)

St.37	TL(mm)	W(gr)
1	222	163
2	171	61
3	174	81
4	233	188
5	193	107
6	174	66
7	162	62
8	166	62
9	160	66
10	175	65
11	255	238
12	185	83
13	226	169
14	200	113
15	124	23
16	160	53
17	170	59
18	207	120
19	115	22
20	161	54
21	172	66
22	269	290
23	170	65
24	220	149
25	231	167
26	169	69
27	200	122
28	156	62
29	192	99
30	112	18
31	184	91
32	163	63
33	233	186
34	165	60
35	111	21
36	215	128
37	221	140
38	165	61
39	171	60
40	210	115
41	175	61
42	200	109
43	225	140
44	173	70
45	176	63
46	223	138
47	197	109
48	163	57
49	172	67
50	249	209

St.37	TL(mm)	W(gr)
51	170	59
52	162	56
53	174	69
54	155	55
55	239	221
56	184	92
57	193	110
58	154	54
59	170	67
60	221	168
61	181	84
62	183	81
63	195	98
64	227	164
65	201	100
66	174	72
67	172	63
68	118	19
69	212	127
70	282	333
71	177	67
72	209	121
73	166	55
74	167	71
75	167	60
76	257	246
77	213	127
78	214	139
79	220	140
80	180	78
81	252	210
82	158	49
83	240	205
84	175	59
85	184	90
86	210	138
87	242	188
88	159	58
89	263	289
90	253	246
91	181	75
92	262	258
93	252	231
94	169	63
95	195	92
96	173	62
97	121	21
98	184	74
99	160	52
100	199	109

St.37	TL(mm)	W(gr)
101	215	137
102	172	65
103	156	68
104	163	63
105	216	138
106	168	61
107	165	62
108	163	59
109	170	69
110	112	17
111	163	60
112	164	65
113	165	64
114	162	60
115	182	81
116	161	66
117	172	71
118	112	20
119	211	111
120	218	172
121	161	59
122	200	119
123	168	68
124	156	62
125	167	67
126	192	93
127	120	25
128	168	75
129	165	66
130	171	64
131	192	106
132	158	53
133	166	70
134	193	97
135	169	67
136	110	21
137	190	101
138	160	58
139	126	27
140	108	19
141	224	152
142	109	19
143	116	22
144	157	64
145	168	68
146	163	61
147	169	69
148	162	68
149	127	33
150	166	70

St.37	TL(mm)	W(gr)
151	113	22
152	166	66
153	196	100
154	198	100
155	163	66
156	172	65
157	177	71
158	111	20
159	157	54
160	111	19
161	168	65
162	173	66
163	158	56
164	166	62
165	161	58
166	171	67
167	173	62
168	171	67
169	162	53
170	233	178
171	119	22
172	116	21
173	230	172
174	178	79
175	169	61
176	117	18
177	200	99
178	161	67
179	165	61
180	160	62
181	112	20
182	111	20
183	162	60
184	152	53
185	108	18
186	165	65
187	163	64
188	162	61
189	115	21
190	117	20
191	114	18
192	172	62
193	172	67
194	119	22
195	210	138
196	119	21
197	161	58
198	168	61
199	114	21
200	164	58

St.37	TL(mm)	W(gr)
201	165	64
202	168	59
203	165	61
204	116	13
205	167	64
206	162	57
207	117	21
208	166	59
209	175	70
210	117	18
211	163	56
212	166	62
213	169	63
214	268	284
215	186	90
216	196	110
217	163	59
218	164	62
219	166	68
220	160	58
221	171	72
222	191	106
223	165	69
224	157	60
225	157	60
226	103	15
227	107	19
228	160	58
229	196	109
230	163	58
231	102	16
232	162	55
233	170	67
234	206	114
235	196	104
236	114	18
237	169	61
238	121	23
239	186	99
240	167	60
241	170	65
242	113	21
243	116	19
244	173	69
245	115	22
246	106	18
247	115	24

Table 1-8-3 (8) The data of body length and body weight of survey-target species

Dentex congossis

The 2nd survey (4 Oct. - 18 Oct. 2000)

St.3	TL(mm)	W(gr)	St.3	TL(mm)	W(gr)	St.3	TL(mm)	W(gr)	St.6	TL(mm)	W(gr)	St.6	TL(mm)	W(gr)
1	169	65	14	172	59	27	106	16	5	112	15	18	83	9
2	161	47	15	136	30	28	148	44	6	105	13	19	112	15
3	167	51	16	131	28	29	100	11	7	87	8	20	114	14
4	190	80	17	146	37	30	101	11	8	107	14	21	105	12
5	116	19	18	128	35	31	88	7	9	87	8	22	113	18
6	143	47	19	151	41	32	90	8	10	103	11	23	114	15
7	115	17	20	147	39	33	96	12	11	94	10	24	96	9
8	131	30	21	105	13				12	115	19	25	102	12
9	140	31	22	139	33				13	93	9			
10	168	54	23	156	45	St.6	TL(mm)	W(gr)	14	106	13	St.8	TL(mm)	W(gr)
11	171	62	24	140	35	1	104	11	15	103	8	1	67	8
12	165	55	25	140	39	2	102	13	16	96	10			
13	151	40	26	116	23	3	105	14	17	113	19			
						4	95	7						

The 3rd survey (25 Jul. - 13 Aug. 2001)

St.46	TL(mm)	W(gr)	St.46	TL(mm)	W(gr)	St.46	TL(mm)	W(gr)	St.46	TL(mm)	W(gr)	St.46	TL(mm)	W(gr)
1	181	73	41	115	21	81	157	47	121	147	41	161	116	19
2	154	50	42	141	39	82	205	106	122	159	49	162	150	45
3	139	34	43	153	53	83	162	53	123	159	54	163	157	55
4	173	74	44	137	42	84	119	19	124	125	24	164	143	38
5	169	62	45	186	88	85	121	20	125	142	34	165	173	69
6	137	34	46	181	84	86	197	93	126	119	22	166	139	30
7	189	88	47	157	62	87	165	55	127	156	58	167	118	19
8	156	46	48	146	43	88	131	29	128	188	86	168	130	29
9	138	32	49	175	71	89	141	38	129	113	17	169	97	12
10	162	57	50	153	46	90	161	53	130	178	78	170	152	44
11	181	80	51	86	9	91	168	68	131	141	40	171	108	16
12	144	37	52	190	96	92	154	50	132	145	38	172	128	29
13	142	35	53	162	58	93	170	69	133	152	45	173	199	91
14	155	53	54	129	28	94	161	51	134	138	36	174	142	34
15	207	117	55	154	53	95	165	65	135	164	59	175	164	55
16	182	80	56	114	17	96	146	43	136	165	56	176	155	45
17	145	38	57	147	37	97	177	86	137	173	63	177	174	72
18	166	59	58	147	41	98	181	88	138	140	32	178	160	54
19	150	44	59	183	72	99	143	38	139	135	29	179	124	25
20	188	88	60	167	66	100	166	64	140	148	40	180	171	61
21	159	47	61	166	58	101	139	38	141	140	44	181	137	31
22	144	33	62	148	40	102	161	56	142	136	38	182	159	50
23	177	71	63	150	42	103	145	49	143	137	37	183	140	37
24	139	37	64	165	54	104	153	45	144	122	24	184	145	37
25	137	53	65	140	30	105	174	71	145	149	45	185	205	108
26	191	83	66	151	47	106	198	104	146	109	14	186	181	72
27	164	60	67	128	23	107	130	29	147	176	76	187	151	48
28	161	54	68	170	59	108	148	36	148	137	35	188	154	47
29	202	99	69	133	27	109	121	23	149	161	63	189	184	76
30	150	49	70	167	59	110	149	46	150	125	27	190	166	61
31	205	102	71	108	14	111	174	71	151	134	29	191	182	77
32	135	29	72	118	18	112	177	70	152	132	30	192	154	47
33	140	42	73	152	48	113	193	93	153	104	16	193	156	52
34	145	38	74	147	46	114	166	54	154	99	13	194	140	39
35	170	62	75	197	97	115	150	44	155	177	84	195	177	71
36	144	37	76	150	43	116	159	52	156	155	53	196	165	56
37	167	64	77	142	39	117	132	32	157	134	35	197	129	28
38	140	36	78	116	21	118	143	35	158	187	85	198	148	39
39	153	47	79	151	43	119	149	44	159	123	25	199	111	22
40	171	64	80	142	33	120	155	49	160	104	13	200	168	61

Table 1-8-3 (9) The data of body length and body weight of survey-target species

Drepane africana

The 2nd survey (4 Oct. - 18 Oct. 2000)

St.1	TL(mm)	W(gr)
1	149	88
2	145	90
3	152	91
4	183	182
5	147	85
6	162	124
7	163	124

The 3rd survey (25 Jul. - 13 Aug. 2001)

St.26	TL(mm)	W(gr)
1	162	126
2	165	119
3	157	105
4	145	72
5	165	123
6	157	98
7	183	172
8	177	142

St.26	TL(mm)	W(gr)
9	133	62
10	125	49
11	136	63
12	127	56
13	177	128
14	144	71
15	111	33
16	148	80

St.32	TL(mm)	W(gr)
1	122	43
2	116	39
3	132	54
4	125	49
5	126	43
6	128	50

St.35	TL(mm)	W(gr)
1	120	35
2	125	40

The 4th survey (29 Oct. - 16 Nov. 2001)

St.38	TL(mm)	W(gr)
1	213	256
2	258	452
3	197	176
4	191	170
5	235	315
6	221	282
7	197	182
8	210	263
9	197	198
10	206	226
11	218	292
12	248	404

St.38	TL(mm)	W(gr)
13	208	224
14	216	271
15	231	347
16	242	399
17	208	250
18	197	182
19	196	185
20	286	659
21	218	276
22	217	286
23	202	217
24	223	318

St.38	TL(mm)	W(gr)
25	183	156
26	211	253
27	188	175
28	256	428
29	217	216
30	311	846
31	216	272
32	197	202
33	202	201
34	206	212
35	211	228
36	195	181

St.38	TL(mm)	W(gr)
37	195	198
38	203	222
39	195	198
40	241	395
41	200	202
42	212	295
43	218	279
44	190	187

St.10	TL(mm)	W(gr)
1	279	598
2	312	912
3	238	351
4	218	266

St.1	TL(mm)	W(gr)
1	197	223

St.39	TL(mm)	W(gr)
1	227	327

The 5th survey (20 Jul. - 5 Aug. 2002)

St.10	TL(mm)	W(gr)
1	260	485
2	275	590
3	303	985
4	269	576
5	296	813
6	231	347
7	269	548
8	218	282
9	251	419
10	211	241
11	196	220
12	193	205
13	198	207
14	198	212
15	238	365
16	249	418
17	253	465
18	227	316
19	215	249
20	171	42
21	125	37
22	210	239
23	232	336
24	200	204
25	177	59
26	202	205
27	142	64
28	277	565
29	172	126
30	119	35

St.10	TL(mm)	W(gr)
31	175	62
32	111	27
33	112	34
34	105	20
35	142	61
36	157	113
37	232	293
38	175	57
39	212	247
40	133	52
41	176	49
42	202	199
43	127	42
44	137	57
45	145	71
46	112	29
47	172	44
48	115	29
49	114	32
50	206	226
51	265	465
52	209	217
53	141	62
54	171	112
55	180	144
56	104	25
57	112	30
58	118	40
59	101	22
60	115	32

St.10	TL(mm)	W(gr)
61	112	27
62	108	24
63	119	41

St.12	TL(mm)	W(gr)
1	137	58
2	106	44

St.14	TL(mm)	W(gr)
1	201	201
2	173	125

St.26	TL(mm)	W(gr)
1	229	376
2	121	42
3	195	212
4	206	285
5	189	196
6	132	57
7	145	81
8	135	54
9	118	32
10	124	48
11	132	50
12	135	58
13	122	42
14	122	45

St.26	TL(mm)	W(gr)
15	152	98
16	114	34
17	131	54
18	181	184
19	125	42

St.32	TL(mm)	W(gr)
1	96	21
2	127	48

St.35	TL(mm)	W(gr)
1	281	681
2	262	460
3	267	521
4	308	995
5	185	159

St.36	TL(mm)	W(gr)
1	245	381
2	186	175

Table 1-8-3 (10) The data of body length and body weight of survey-target species

Balistes caprisicus (1/2)

The 2nd survey (4 Oct. - 18 Oct. 2000)

St.2	TL(mm)	W(g)
1	288	329
2	428	757
3	347	603
4	303	457

St.26	TL(mm)	W(g)
1	179	109
2	219	203

St.27	TL(mm)	W(g)
1	207	160
2	242	232

St.29	TL(mm)	W(g)
1	418	689
2	343	444
3	282	346
4	301	425
5	175	111
6	292	444
7	181	120
8	187	128

St.32	TL(mm)	W(g)
1	238	219

St.33	TL(mm)	W(g)
1	348	791
2	343	636
3	354	557
4	438	1,228
5	366	766
6	346	554
7	347	572
8	456	1,272
9	347	542
10	347	555
11	407	1,012
12	432	1,147

St.33	TL(mm)	W(g)
13	411	901
14	372	731
15	343	526
16	367	642
17	311	439
18	476	1,539
19	404	930
20	403	943
21	386	754
22	392	816
23	448	1,188
24	371	670

St.33	TL(mm)	W(g)
25	379	755
26	344	587
27	318	479

St.39	TL(mm)	W(g)
1	261	288
2	191	120
3	204	141
4	171	95
5	274	362
6	186	98
7	206	129
8	267	328

The 3rd survey (25 Jul. - 13 Aug. 2001)

St.1	TL(mm)	W(gr)
1	351	501
2	432	966
3	489	1469
4	505	1195
5	385	706
6	383	720
7	416	841
8	333	496
9	349	575
10	468	975
11	432	1199
12	264	262

St.2	TL(mm)	W(gr)
1	452	776
2	312	368

St.9	TL(mm)	W(gr)
1	351	572

St.10	TL(mm)	W(gr)
1	173	107

The 4th survey (29 Oct. - 16 Nov. 2001)

St.1	TL(mm)	W(gr)
1	592	2086
2	276	345
3	310	433
4	503	1382

St.2	TL(mm)	W(gr)
1	452	958

St.3	TL(mm)	W(gr)
1	515	1263

St.5	TL(mm)	W(gr)
1	275	314

St.6	TL(mm)	W(gr)
1	341	505
2	290	312

St.12	TL(mm)	W(gr)
1	256	258
2	307	393

St.11	TL(mm)	W(gr)
1	209	154
2	185	84

St.15	TL(mm)	W(gr)
1	163	82
2	156	76

St.21	TL(mm)	W(gr)
1	139	53

St.24	TL(mm)	W(gr)
1	326	423

St.26	TL(mm)	W(gr)
1	160	74

St.27	TL(mm)	W(gr)
1	152	66

St.28	TL(mm)	W(gr)
1	223	202

St.12	TL(mm)	W(gr)
3	305	464
4	371	665
5	251	232
6	228	187

St.16	TL(mm)	W(gr)
1	295	411
2	276	323
3	411	815
4	481	1076
5	406	761
6	222	167
7	213	156
8	229	202
9	268	315
10	263	254

St.18	TL(mm)	W(gr)
1	442	1126
2	345	567
3	406	748

St.29	TL(mm)	W(gr)
1	361	549
2	372	729
3	335	428
4	321	427
5	445	1045
6	272	279
7	383	608
8	402	659
9	321	349
10	319	360
11	360	621
12	258	212
13	288	282
14	308	284
15	270	236
16	318	406
17	295	385
18	321	444
19	276	259
20	423	756
21	180	103
22	335	430

St.26	TL(mm)	W(gr)
1	367	670

St.29	TL(mm)	W(gr)
1	311	378

St.30	TL(mm)	W(gr)
1	260	295
2	261	316
3	325	457
4	326	431
5	265	288
6	268	311
7	257	307
8	268	306
9	291	292
10	255	257
11	331	532
12	260	261
13	291	309
14	271	304
15	351	490

St.29	TL(mm)	W(gr)
23	190	109
24	309	336
25	250	198
26	230	184
27	276	256
28	272	263
29	345	494
30	351	533
31	206	123
32	373	564

St.30	TL(mm)	W(gr)
1	355	636
2	268	268
3	305	328
4	306	350
5	351	568
6	348	620
7	341	516
8	284	310

St.38	TL(mm)	W(gr)
1	225	145
2	196	109
3	199	131
4	227	165
5	210	145
6	212	145
7	185	103
8	152	69
9	136	51
10	160	72

St.39	TL(mm)	W(gr)
1	366	576
2	268	211
3	176	87
4	204	120
5	174	80
6	201	117

St.30	TL(mm)	W(gr)
16	392	836
17	282	312
18	212	164
19	277	549
20	328	530
21	242	231
22	262	295
23	267	314
24	361	504
25	330	452
26	261	282
27	348	516
28	250	317
29	262	301
30	315	341
31	300	374
32	273	323
33	307	480

St.34	TL(mm)	W(gr)
1	290	306
2	415	982
3	267	290
4	338	492
5	436	843
6	391	688
7	337	504
8	428	859
9	255	266
10	422	976
11	348	443
12	402	762
13	377	644

St.39	TL(mm)	W(gr)
1	245	216

St.42	TL(mm)	W(gr)
1	381	768

Table 1-8-3(11) The data of body length and body weight of survey-target species

Balistes capriscus (2/2)

The 5th survey (20 Jul. - 5 Aug. 2002)

St.3	TL(mm)	W(gr)
1	264	266

St.23	TL(mm)	W(gr)
1	185	116

St.31	TL(mm)	W(gr)
1	378	423

St.31	TL(mm)	W(gr)
15	236	195

St.31	TL(mm)	W(gr)
29	252	187

St.8	TL(mm)	W(gr)
1	369	602
2	199	132

St.28	TL(mm)	W(gr)
1	232	200

2	173	90
3	317	352
4	193	107

16	182	97
17	506	889
18	389	545

30	203	132
31	184	84

St.11	TL(mm)	W(gr)
1	248	220

St.29	TL(mm)	W(gr)
1	193	134

5	223	168
6	202	107
7	251	196

19	321	302
20	188	110
21	152	60

32	203	109
33	183	91
34	175	83

St.16	TL(mm)	W(gr)
1	258	267

St.30	TL(mm)	W(gr)
1	472	1142

8	312	330
9	335	355
10	279	266

22	183	83
23	182	91
24	210	116

St.39	TL(mm)	W(gr)
1	165	34
2	196	83
3	159	70

St.17	TL(mm)	W(gr)
1	278	303

2	286	286
3	458	877
4	226	148

11	303	340
12	281	297
13	228	164

25	186	98
26	191	104
27	363	565

14	253	220
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28	192	98
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Table 1-8-3 (12) The data of body length and body weight of survey-target species

Penaeus notialis (1/2)

The 2nd survey (4 Oct - 18 Oct. 2000)

St.32	TL(mm)	W(gr)
1	148	22
2	138	24
3	133	18
4	235	105
5	171	35

St.35	TL(mm)	W(gr)
1	222	84
2	139	19
3	214	82
4	184	50
5	149	25

St.35	TL(mm)	W(gr)
6	148	24
7	151	28
8	124	14
9	181	43

St.36	TL(mm)	W(gr)
1	181	42

The 3rd survey (25 Jul. - 13 Aug. 2001)

St.2	TL(mm)	W(gr)
1	178	37
2	164	29
3	152	23
4	156	24

St.10	TL(mm)	W(gr)
1	210	63
2	151	18

St.32	TL(mm)	W(gr)
32	103	7
33	100	5
34	115	9
35	117	9
36	103	7
37	112	8
38	105	8
39	203	57
40	189	46
41	172	31
42	225	78
43	219	76
44	214	69
45	155	25
46	155	23
47	295	63
48	148	22
49	197	48
50	118	10
51	92	8
52	125	14
53	95	5
54	112	8
55	108	9
56	111	6
57	92	5
58	118	11
59	108	10
60	112	7
61	103	7
62	111	8
63	112	9
64	110	7
65	97	6
66	111	9

St.32	TL(mm)	W(gr)
67	93	7
68	95	4
69	105	8
70	86	4
71	101	6
72	105	7
73	73	4
74	118	9
75	111	8
76	96	6
77	112	7
78	105	7
79	103	6
80	106	7
81	112	7
82	107	7
83	93	5
84	112	7
85	112	9
86	112	9

St.35	TL(mm)	W(gr)
14	119	9
15	109	9
16	113	8
17	118	11
18	132	14
19	121	11
20	125	12
21	118	10
22	162	26
23	110	8
24	117	8
25	120	11
26	113	9
27	112	7
28	111	7
29	116	9
30	112	7
31	112	7
32	112	8
33	122	10
34	129	13
35	135	14
36	85	4
37	126	13
38	103	7
39	122	13
40	133	14

St.4	TL(mm)	W(gr)
1	168	29
2	182	40
3	206	59
4	147	19
5	161	25
6	156	20
7	153	21

St.32	TL(mm)	W(gr)
1	115	9
2	131	14
3	128	13
4	115	8
5	112	8
6	103	6
7	118	11
8	125	12
9	121	11
10	113	8
11	102	6
12	112	9
13	101	6
14	105	6
15	101	5
16	119	11
17	105	5
18	115	10
19	152	21
20	95	5
21	76	2
22	110	7
23	105	6
24	111	11
25	110	7
26	105	7
27	103	6
28	108	9
29	105	6
30	92	5
31	112	7

St.5	TL(mm)	W(gr)
1	206	63
2	186	43
3	235	91
4	172	34
5	170	33
6	142	19
7	147	18
8	169	30
9	146	20
10	151	22
11	191	48
12	172	29
13	172	26
14	176	36
15	138	15
16	143	18
17	141	12
18	159	22
19	171	28

St.32	TL(mm)	W(gr)
87	106	7
88	112	7
89	107	7
90	93	5
91	112	7
92	112	9
93	112	9
94	112	9
95	112	9
96	112	9
97	112	9
98	112	9
99	112	9
100	112	9
101	112	9
102	112	9
103	112	9
104	112	9
105	112	9
106	112	9
107	112	9
108	112	9
109	112	9
110	112	9
111	112	9
112	112	9
113	112	9
114	112	9
115	112	9
116	112	9
117	112	9
118	112	9
119	112	9
120	112	9
121	112	9
122	112	9
123	112	9
124	112	9
125	112	9
126	112	9
127	112	9
128	112	9
129	112	9
130	112	9
131	112	9
132	112	9
133	112	9
134	112	9
135	112	9
136	112	9
137	112	9
138	112	9
139	112	9
140	112	9
141	112	9
142	112	9
143	112	9
144	112	9
145	112	9
146	112	9
147	112	9
148	112	9
149	112	9
150	112	9

St.35	TL(mm)	W(gr)
1	121	12
2	113	8
3	115	10
4	126	12
5	128	13
6	121	11
7	117	8
8	131	14
9	119	10
10	113	9
11	113	8
12	111	8
13	109	8

St.5	TL(mm)	W(gr)
1	206	63
2	186	43
3	235	91
4	172	34
5	170	33
6	142	19
7	147	18
8	169	30
9	146	20
10	151	22
11	191	48
12	172	29
13	172	26
14	176	36
15	138	15
16	143	18
17	141	12
18	159	22
19	171	28

St.32	TL(mm)	W(gr)
1	115	9
2	131	14
3	128	13
4	115	8
5	112	8
6	103	6
7	118	11
8	125	12
9	121	11
10	113	8
11	102	6
12	112	9
13	101	6
14	105	6
15	101	5
16	119	11
17	105	5
18	115	10
19	152	21
20	95	5
21	76	2
22	110	7
23	105	6
24	111	11
25	110	7
26	105	7
27	103	6
28	108	9
29	105	6
30	92	5
31	112	7

St.35	TL(mm)	W(gr)
1	151	16
2	153	26

St.35	TL(mm)	W(gr)
1	121	12
2	113	8
3	115	10
4	126	12
5	128	13
6	121	11
7	117	8
8	131	14
9	119	10
10	113	9
11	113	8
12	111	8
13	109	8

St.36	TL(mm)	W(gr)
1	188	46
2	166	24
3	160	26
4	157	23
5	119	9
6	151	22
7	145	19
8	163	26

The 4th survey (29 Oct. - 16 Nov. 2001)

St.1	TL(mm)	W(gr)
1	146	13

St.32	TL(mm)	W(gr)
3	218	74
4	147	20

St.36	TL(mm)	W(gr)
1	151	16
2	153	26

St.35	TL(mm)	W(gr)
3	186	41
4	208	66
5	198	56
6	146	18
7	223	71
8	207	62

St.35	TL(mm)	W(gr)
9	167	31
10	162	28
11	198	61
12	165	32
13	151	22
14	106	8
15	86	6

St.32	TL(mm)	W(gr)
1	229	85
2	161	28

St.33	TL(mm)	W(gr)
1	131	15

St.35	TL(mm)	W(gr)
1	218	78
2	183	43

Table 1-8-3 (13) The data of body length and body weight of survey-target species

Penaeus notialis (2/2)

The 5th survey (20 Jul. - 5 Aug. 2002)

St.26	TL(mm)	W(gr)
1	206	70
2	182	43
3	116	12
4	123	14
5	124	12
6	129	13
7	127	13
8	106	6
9	107	7
10	125	12
11	84	4

St.32	TL(mm)	W(gr)
1	171	33
2	159	26
3	128	12

St.32	TL(mm)	W(gr)
4	81	4
5	112	10
6	111	11
7	122	14
8	115	11
9	121	12
10	109	9
11	106	10
12	81	4
13	109	8
14	78	3
15	84	4
16	76	3
17	76	3
18	125	13
19	73	3

St.32	TL(mm)	W(gr)
20	121	12
21	118	10
22	71	3
23	72	3
24	78	4

St.33	TL(mm)	W(gr)
1	197	69
2	165	29
3	131	15
4	185	46
5	216	72
6	182	43
7	223	75
8	118	9
9	116	11

St.33	TL(mm)	W(gr)
10	125	13
11	76	2
12	222	78
13	115	13
14	215	72

St.35	TL(mm)	W(gr)
1	117	11
2	72	2
3	147	23
4	73	2
5	68	2
6	111	9
7	105	13
8	109	9
9	73	2

St.35	TL(mm)	W(gr)
10	77	3
11	72	1

St.36	TL(mm)	W(gr)
1	223	90
2	206	67
3	218	80
4	203	58
5	161	25
6	215	75
7	195	58
8	194	53

Table 1-9-1 (1) The data of body length of mesh selectivity test

Decapterus rhonchus(1/2)

The 3rd survey (25 Jul. - 13 Aug. 2001)

St.	Codend(60mm)															Covernet(40mm)		
M1	no data															no data		
M2	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)
	1	408	698	22	188	70	43	187	68	65	202	90	87	218	108	1	202	72
	2	246	150	23	196	84	44	232	132	66	198	80	88	189	68	2	212	88
	3	204	98	24	224	126	45	207	90	67	194	80	89	212	96	3	213	91
	4	238	142	25	236	132	46	190	70	68	217	104	90	192	80	4	233	123
	5	192	76	26	184	66	47	199	72	69	241	172	91	197	84	5	211	86
	6	242	148	27	190	70	48	263	174	70	215	104	92	207	96	6	212	87
	7	273	228	28	198	86	49	205	84	71	208	98	93	227	128	7	192	65
	8	202	84	29	204	80	50	211	96	72	194	80	94	210	88	8	228	116
	9	264	174	30	197	82	51	204	88	73	205	86	95	201	86	9	216	95
	10	257	170	31	197	74	52	215	112	74	188	74	96	186	74	10	186	59
	11	221	112	32	219	116	53	208	92	75	186	64	97	217	110	11	194	66
	12	200	82	33	186	62	54	197	80	76	226	122	98	193	78	12	201	70
	13	189	70	34	207	94	55	180	60	77	184	60	99	207	96	13	193	61
	14	215	104	35	188	72	56	187	74	78	191	76	100	178	66	14	218	92
	15	228	116	36	213	92	57	222	118	79	186	66	101	197	82	15	220	99
	16	212	100	37	207	82	58	296	262	80	189	74	102	185	74	16	183	61
	17	244	138	38	187	80	59	215	104	81	214	96	103	192	82	17	188	64
	18	227	116	39	196	78	60	200	90	82	224	112	104	197	88	18	180	55
	19	199	74	40	221	112	61	218	118	83	213	100	105	200	82	19	187	59
	20	209	98	41	192	72	62	230	126	84	211	96	106	202	88	20	198	66
	21	223	114	42	230	120	63	199	96	85	231	130	107	203	88	21	218	85
							64	198	82	86	233	122	108	200	88	22	208	75
	108 individuals were measured from 167 fish caught in the codend.															23	207	86
																24	195	67
M3	Codend(70mm)												Covernet(40mm)					
	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)			
	1	236	138	3	195	73	5	185	64	7	199	74	1	193	68			
	2	211	97	4	188	63	6	191	71				2	186	57			
M4	Codend(70mm)						Covernet(40mm)											
	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)
	1	207	85	26	215	95	1	205	81	31	229	106	61	220	91	91	228	106
	2	217	94	27	207	90	2	209	88	32	233	119	62	193	70	92	207	81
	3	218	102	28	232	125	3	199	76	33	202	77	63	182	59	93	205	83
	4	227	118	29	212	92	4	278	216	34	245	145	64	203	86	94	215	106
	5	192	69	30	205	84	5	205	84	35	201	78	65	194	67	95	227	112
	6	202	77	31	227	113	6	198	74	36	211	95	66	182	61	96	209	92
	7	208	93	32	216	111	7	203	82	37	221	98	67	220	101	97	209	103
	8	207	79	33	178	53	8	211	88	38	199	69	68	212	96	98	204	73
	9	212	100	34	236	127	9	230	112	39	201	74	69	215	89	99	209	88
	10	226	121	35	205	85	10	231	118	40	202	76	70	214	95	100	212	86
	11	196	82	36	201	79	11	207	86	41	201	77	71	212	99	101	222	109
	12	212	101	37	225	116	12	177	60	42	198	75	72	222	105	102	189	68
	13	204	82	38	215	102	13	233	110	43	195	81	73	189	66	103	212	91
	14	222	113	39	205	87	14	225	108	44	230	107	74	245	131	104	217	93
	15	225	102	40	207	96	15	199	70	45	203	89	75	208	95	105	213	102
	16	218	115	41	212	96	16	210	81	46	190	66	76	214	93	106	194	70
	17	206	87	42	213	83	17	201	76	47	210	84	77	232	115	107	219	122
	18	212	104	43	201	79	18	198	68	48	210	88	78	226	112	108	203	82
	19	197	74	44	209	88	19	210	91	49	205	75	79	196	78	109	187	66
	20	192	69	45	192	67	20	225	102	50	207	82	80	187	58	110	191	70
	21	238	131	46	196	80	21	209	89	51	225	114	81	197	77	111	213	96
	22	223	106	47	183	64	22	212	90	52	196	69	82	220	100	112	217	102
	23	220	97				23	223	117	53	237	107	83	225	113	113	208	87
	24	213	96				24	207	81	54	232	121	84	207	83	114	205	95
	25	224	113				25	202	74	55	212	106	85	212	83	115	201	77
	47 individuals were measured from 131 fish caught in the codend.						26	207	81	56	236	119	86	212	88	116	227	123
							27	204	90	57	207	90	87	224	107	117	210	87
							28	201	68	58	198	75	88	207	86			
							29	209	84	59	228	112	89	216	102			
							30	190	72	60	187	65	90	204	86			

Table 1-9-1 (2) The data of body length of mesh selectivity test

Decapterus rhonchus (2/2)

The 4th survey (29 Oct. - 16 Nov. 2001)

St.	Codend(60mm)								Covernet(40mm)										
	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)			
M1	1	141	31	130	1	104	26	82	51	84	76	77	101	79	126	118	151	83	
	2	117	32	117	2	83	27	93	52	98	77	83	102	70	127	64	152	80	
	3	125	33	137	3	70	28	81	53	72	78	86	103	72	128	73	153	82	
	4	92	34	77	4	123	29	127	54	94	79	89	104	79	129	68	154	90	
	5	137	35	117	5	80	30	85	55	79	80	79	105	81	130	77	155	89	
	6	128	36	123	6	122	31	65	56	78	81	109	106	80	131	87	156	98	
	7	224	37	78	7	85	32	67	57	82	82	82	107	78	132	89	157	89	
	8	138	38	127	8	92	33	74	58	73	83	81	108	88	133	94	158	79	
	9	140	39	93	9	75	34	73	59	78	84	142	109	79	134	86	159	87	
	10	133	40	123	10	74	35	73	60	62	85	84	110	76	135	78	160	85	
	11	131	41	119	11	79	36	89	61	79	86	85	111	87	136	110	161	76	
	12	136	42	94	12	119	37	81	62	80	87	110	112	82	137	85	162	70	
	13	106	43	94	13	75	38	101	63	84	88	62	113	90	138	82	163	97	
	14	85	44	128	14	74	39	72	64	73	89	107	114	76	139	91	164	76	
	15	117	45	84	15	70	40	77	65	74	90	117	115	86	140	109			
	16	119	46	122	16	82	41	89	66	77	91	98	116	130	141	77			
	17	117	47	83	17	75	42	78	67	74	92	89	117	76	142	124			
	18	129	48	133	18	79	43	74	68	82	93	90	118	96	143	87			
	19	120	49	95	19	88	44	72	69	72	94	89	119	81	144	94			
	20	125	50	81	20	98	45	62	70	83	95	91	120	76	145	71			
	21	131	51	101	21	86	46	61	71	125	96	86	121	73	146	63			
	22	106	52	140	22	117	47	78	72	96	97	87	122	95	147	77			
	23	121	53	86	23	135	48	86	73	91	98	87	123	97	148	75			
	24	128	54	112	24	76	49	87	74	116	99	69	124	77	149	76			
	25	116	55	112	25	127	50	73	75	92	100	80	125	114	150	79			
	26	127	56	94															
	27	92	57	153															
	28	113	58	116															
	29	116	59	97															
	30	88	60	129															
M2	no data								no data										
M3	no data								no data										
M4	no data								no data										

164 individuals were measured from 514 fish caught in the covernet.

The 5th survey (20 Jul. - 5 Aug. 2002)

St.	Codend(60mm)								Covernet(40mm)							
	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)				
M1	1	322	3	306	5	368	7	391	9	385	11	316	13	295	no data	
	2	325	4	328	6	326	8	318	10	336	12	319				
M2	No.	TL(mm)	No.	TL(mm)									No.	TL(mm)		
	1	235	2	229									1	218		
M3	no data								no data							
M4	No.	TL(mm)														
	1	212														

Table 1-9-1 (3) The data of body length of mesh selectivity test

Brachydeuterus auritus(1/3)

The 3rd survey (25 Jul. - 13 Aug. 2001)

St.	Codend(60mm)								Covernet(40mm)									
	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)			
M1	1	152	50	51	124	25	101	158	51	1	136	29	51	152	43	101	131	28
	2	159	58	52	133	29	102	115	22	2	149	46	52	103	11	102	130	31
	3	136	32	53	128	26	103	147	39	3	144	38	53	111	18	103	124	22
	4	130	32	54	127	26	104	150	41	4	145	35	54	137	31	104	125	22
	5	135	31	55	138	35	105	154	43	5	149	42	55	116	19	105	114	18
	6	116	22	56	133	32	106	110	16	6	148	45	56	121	19	106	117	19
	7	171	67	57	135	29	107	149	41	7	130	31	57	93	10	107	112	16
	8	164	67	58	144	37	108	135	29	8	128	25	58	123	26	108	93	7
	9	131	26	59	115	22	109	129	25	9	106	16	59	125	24	109	67	3
	10	121	24	60	116	17	110	144	34	10	117	19	60	156	56	110	125	23
	11	122	25	61	130	24	111	151	35	11	107	13	61	131	29	111	113	17
	12	135	31	62	136	28	112	135	33	12	122	20	62	102	15	112	116	15
	13	141	33	63	137	31	113	137	30	13	117	19	63	147	39	113	101	13
	14	141	36	64	135	31	114	139	32	14	137	27	64	95	8	114	98	11
	15	124	23	65	155	44	115	109	14	15	134	32	65	142	40	115	86	10
	16	149	38	66	126	22	116	169	58	16	123	19	66	117	23	116	94	9
	17	125	23	67	153	40	117	125	22	17	122	24	67	149	51	117	81	7
	18	117	22	68	134	28	118	140	34	18	117	18	68	143	36	118	117	19
	19	149	36	69	131	25	119	124	23	19	98	14	69	123	25	119	124	24
	20	136	33	70	138	31	120	153	43	20	139	28	70	103	17	120	137	31
	21	150	41	71	127	24	121	112	17	21	84	8	71	117	20	121	130	26
	22	134	31	72	149	35	122	128	28	22	111	16	72	93	8	122	114	20
	23	130	27	73	106	15	123	123	21	23	106	14	73	124	23	123	135	36
	24	146	37	74	144	39	124	125	25	24	128	25	74	118	23	124	97	14
	25	141	34	75	125	22	125	137	27	25	116	19	75	146	38	125	108	17
	26	104	14	76	133	28	126	135	30	26	129	23	76	127	26	126	126	24
	27	139	36	77	155	44	127	143	36	27	142	34	77	90	7	127	105	14
	28	111	16	78	155	49	128	168	62	28	126	24	78	129	29	128	114	18
	29	143	36	79	138	32	129	133	27	29	130	24	79	79	4	129	105	13
	30	156	49	80	145	36	130	154	39	30	150	35	80	123	25	130	109	15
	31	135	31	81	132	28	131	186	82	31	163	49	81	98	12	131	88	7
	32	143	36	82	153	44	132	166	53	32	141	32	82	116	18	132	114	13
	33	132	26	83	134	27	133	138	37	33	140	29	83	105	12	133	101	12
	34	138	34	84	147	41	134	127	25	34	131	26	84	132	28	134	121	18
	35	121	25	85	143	38	135	138	33	35	130	28	85	125	23	135	104	11
	36	117	21	86	128	27	136	127	28	36	127	25	86	115	15	136	139	32
	37	130	27	87	139	31	137	144	34	37	132	27	87	126	23	137	130	24
	38	138	31	88	154	49	138	105	13	38	126	19	88	117	20	138	116	21
	39	155	45	89	119	21	139	132	33	39	131	29	89	143	35	139	131	29
	40	140	36	90	140	34	140	127	21	40	140	33	90	119	21	140	125	21
	41	155	47	91	112	18	141	157	40	41	146	40	91	132	29	141	111	12
	42	153	27	92	175	71	142	131	24	42	109	15	92	137	38	142	102	12
	43	140	33	93	136	37	143	174	73	43	132	30	93	144	34	143	115	19
	44	122	22	94	123	24	144	180	79	44	92	11	94	109	14	144	109	14
	45	131	28	95	133	31	145	149	42	45	116	18	95	121	18	145	136	31
	46	148	49	96	136	30	146	139	34	46	115	18	96	149	40	146	122	17
	47	138	35	97	128	27	147	138	31	47	82	6	97	146	37	147	141	29
	48	124	24	98	132	32	148	145	35	48	90	9	98	109	13	148	131	25
	49	124	24	99	163	52	149	126	25	49	82	7	99	116	21			
	50	136	32	100	147	39	150	133	29	50	114	17	100	96	9			
	151 individuals were measured from 416 fish caught in the codend.								148 individuals were measured from 373 fish caught in the covernet.									
M2	Codend(60mm)								Covernet(40mm)									
	no data								no data									

Table 1-9-1 (4) The data of body length of mesh selectivity test

Brachydeuterus auritus (2/3)

The 3rd survey (25 Jul. - 13 Aug. 2001)

M3	Codend(70mm)									Covernet(40mm)								
	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)
1	126	23	41	106	12	81	111	17	1	132	25	41	138	32	81	108	17	
2	142	37	42	122	24	82	131	25	2	104	12	42	183	70	82	143	37	
3	158	48	43	163	58	83	145	37	3	123	23	43	131	24	83	123	23	
4	140	28	44	118	21	84	117	20	4	136	33	44	141	36	84	164	55	
5	141	29	45	127	23	85	135	27	5	109	14	45	122	22	85	133	34	
6	125	21	46	132	29	86	137	29	6	138	33	46	134	30	86	114	20	
7	121	22	47	132	26	87	128	23	7	107	16	47	140	32	87	138	30	
8	180	70	48	127	21	88	178	72	8	118	21	48	122	24	88	126	27	
9	151	40	49	148	41	89	169	55	9	105	12	49	118	19	89	119	21	
10	112	16	50	136	30	90	136	29	10	129	24	50	122	22	90	113	21	
11	122	23	51	183	73	91	141	31	11	116	17	51	132	30	91	131	28	
12	142	34	52	121	23	92	135	29	12	130	26	52	124	23	92	141	32	
13	120	20	53	125	25	93	143	30	13	131	25	53	124	23	93	130	27	
14	120	19	54	115	18	94	126	24	14	125	22	54	130	26	94	132	28	
15	121	21	55	131	26	95	137	29	15	99	13	55	163	54	95	139	34	
16	135	27	56	137	32	96	152	37	16	118	19	56	140	33	96	140	34	
17	133	28	57	124	21	97	131	25	17	137	27	57	114	17	97	136	31	
18	169	55	58	131	25	98	183	76	18	127	24	58	138	33	98	133	31	
19	122	23	59	117	20	99	135	31	19	109	12	59	114	17	99	131	27	
20	155	46	60	165	64	100	155	48	20	123	21	60	129	24	100	151	45	
21	139	29	61	123	21	101	139	30	21	123	21	61	143	35	101	129	25	
22	102	14	62	162	50	102	138	30	22	111	16	62	148	44	102	128	26	
23	126	22	63	132	28	103	117	18	23	115	17	63	122	23	103	135	28	
24	124	25	64	117	18	104	143	35	24	126	21	64	124	25	104	175	65	
25	146	41	65	136	31	105	115	17	25	119	18	65	134	30	105	117	22	
26	179	71	66	111	15	106	153	40	26	133	28	66	122	25	106	121	20	
27	157	49	67	125	25	107	129	29	27	117	17	67	118	19	107	133	29	
28	121	20	68	173	71	108	119	19	28	117	16	68	126	22	108	136	33	
29	156	45	69	137	27	109	160	49	29	115	16	69	124	21	109	150	39	
30	120	19	70	118	20	110	113	19	30	155	44	70	116	19	110	137	32	
31	125	26	71	138	29				31	132	29	71	115	19	111	169	61	
32	121	19	72	165	58				32	109	15	72	122	20	112	118	22	
33	110	17	73	143	38				33	131	29	73	142	39	113	134	32	
34	131	31	74	122	22				34	108	16	74	127	26	114	168	54	
35	129	27	75	112	17				35	113	18	75	121	25	115	118	18	
36	127	25	76	142	35				36	151	40	76	116	19	116	158	47	
37	141	36	77	115	17				37	120	19	77	108	18	117	131	30	
38	117	23	78	171	63				38	143	36	78	119	21	118	123	21	
39	133	25	79	120	21				39	122	21	79	133	29				
40	119	20	80	125	23				40	131	25	80	130	27				
	110 individuals were measured from 294 fish caught in the codend.									118 individuals were measured from 395 fish caught in the covernet.								
M4	Codend(70mm)									Covernet(40mm)								
	no data									no data								

Table 1-9-1 (5) The data of body length of mesh selectivity test

Brachydeuterus auritus (3/3)

The 4th survey (29 Oct. - 16 Nov. 2001)

St.	Codend(60mm)						Covertnet(40mm)											
	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)
M1	1	173	26	120	51	96	1	92	26	137	51	72	76	75	101	72	126	110
	2	183	27	108	52	100	2	92	27	100	52	85	77	81	102	78	127	84
	3	132	28	119	53	108	3	68	28	96	53	75	78	67	103	89	128	102
	4	111	29	98	54	119	4	116	29	109	54	71	79	99	104	65	129	106
	5	154	30	161	55	143	5	108	30	71	55	67	80	116	105	91	130	70
	6	112	31	149	56	121	6	75	31	100	56	73	81	98	106	89	131	87
	7	118	32	117	57	152	7	108	32	72	57	71	82	64	107	98		
	8	104	33	102	58	113	8	115	33	95	58	104	83	97	108	90		
	9	138	34	108	59	103	9	101	34	110	59	95	84	66	109	93		
	10	107	35	106	60	111	10	104	35	104	60	157	85	75	110	107		
	11	122	36	117	61	116	11	140	36	103	61	94	86	67	111	96		
	12	99	37	126	62	106	12	81	37	75	62	104	87	66	112	73		
	13	110	38	129	63	111	13	79	38	94	63	82	88	149	113	114		
	14	114	39	177	64	118	14	98	39	106	64	105	89	75	114	64		
	15	128	40	131	65	106	15	88	40	106	65	100	90	97	115	80		
	16	106	41	106	66	102	16	105	41	100	66	118	91	128	116	67		
	17	110	42	95	67	100	17	101	42	108	67	120	92	95	117	71		
	18	126	43	99	68	112	18	80	43	96	68	111	93	68	118	80		
	19	109	44	113	69	94	19	97	44	74	69	72	94	71	119	78		
	20	132	45	110	70	104	20	131	45	94	70	63	95	77	120	75		
	21	140	46	94	71	99	21	77	46	73	71	112	96	99	121	70		
	22	115	47	132			22	66	47	92	72	100	97	94	122	108		
	23	135	48	103			23	93	48	98	73	110	98	101	123	110		
	24	138	49	98			24	74	49	100	74	89	99	85	124	69		
	25	123	50	78			25	95	50	105	75	69	100	66	125	109		
	71 individuals were measured from 271 fish caught in the codend.						131 individuals were measured from 952 fish caught in the codend.											

M2	Codend(60mm)	Covertnet(40mm)
	no data	no data
M3	Codend(70mm)	Covertnet(40mm)
	no data	no data
M4	Codend(70mm)	Covertnet(40mm)
	no data	no data

The 5th survey (20 Jul. - 5 Aug. 2002)

St.	Codend(60mm)	Covertnet(40mm)
M1	no data	no data
M2	Codend(60mm)	Covertnet(40mm)
	no data	no data
M3	Codend(70mm)	Covertnet(40mm)
	no data	no data

St.	Codend(70mm)					Covertnet(40mm)					
	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	
1	148	16	162	1	176	16	167	31	166	46	140
2	158	17	164	2	152	17	154	32	155	47	162
3	167	18	167	3	146	18	168	33	169	48	143
4	178	19	184	4	142	19	165	34	165	49	140
5	137	20	169	5	140	20	166	35	154	50	149
6	159	21	194	6	146	21	157	36	157	51	157
7	167	22	165	7	163	22	180	37	165	52	151
8	170	23	186	8	163	23	185	38	156	53	177
9	172	24	152	9	157	24	174	39	150	54	164
10	168	25	153	10	149	25	157	40	161	55	172
11	150	26	156	11	174	26	177	41	140	56	163
12	160	27	156	12	177	27	171	42	158	57	142
13	162	28	159	13	190	28	181	43	148		
14	172	29	166	14	167	29	164	44	147		
15	151	30	153	15	179	30	170	45	153		

Table 1-9-1 (6) The data of body length of mesh selectivity test

Pomadasys incisus(1/2)

The 3rd survey (25 Jul. - 13 Aug. 2001)

St.	Codend(60mm)									Covernet(40mm)											
M1	no data									no data											
M2	Codend(60mm)																		Covernet(40mm)		
	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)			
	1	229	184	11	194	82	22	219	174	33	239	202	44	171	82	1	240	181			
	2	233	206	12	252	202	23	221	184	34	205	122	45	183	84	2	181	73			
	3	189	98	13	195	96	24	149	52	35	209	120	46	222	140	3	190	84			
	4	232	192	14	209	136	25	185	96	36	196	104	47	196	112	4	187	78			
	5	233	168	15	188	90	26	185	104	37	221	160	48	250	236						
	6	211	128	16	181	78	27	220	154	38	251	220	49	215	152						
	7	210	128	17	191	98	28	234	228	39	209	112	50	170	74						
	8	261	250	18	246	214	29	234	190	40	179	74	51	225	168						
	9	195	94	19	238	192	30	201	124	41	206	118	52	237	188						
	10	201	122	20	209	124	31	191	100	42	234	166	53	180	88						
				21	193	112	32	192	92	43	199	100	54	190	92						
	54 individuals were measured from 297 fish caught in the codend.																				
M3	Codend(70mm)																		Covernet(40mm)		
	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)			
	1	177	80	10	156	49	19	182	78	28	166	63	37	179	85	1	175	69			
	2	209	120	11	170	69	20	166	55	29	168	58	38	165	55	2	146	35			
	3	198	106	12	175	67	21	162	53	30	166	60	39	158	53	3	153	42			
	4	158	57	13	199	102	22	269	261	31	181	79	40	169	66	4	164	48			
	5	167	63	14	240	198	23	182	79	32	195	108	41	170	68	5	156	48			
	6	172	65	15	165	54	24	169	59	33	180	78	42	178	71	6	162	59			
	7	229	164	16	165	56	25	236	189	34	159	53	43	166	62						
	8	232	152	17	172	67	26	172	75	35	295	347	44	173	71						
9	185	93	18	165	56	27	179	84	36	180	82										
M4	Codend(70mm)									Covernet(40mm)											
	no data									no data											

Table 1-9-1 (7) The data of body length of mesh selectivity test

Pomadasys incisus (2/2)

The 4th survey (29 Oct - 16 Nov. 2001)

Pomadasys incisus did not appear in all of the station.

Pomadasys incisus (2/2)

The 5th survey (20 Jul. - 5 Aug. 2002)

St.	Codend(60mm)												Covernet(40mm)					
	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)		
M1	1	167	21	172	41	179	61	173	81	163	101	166	121	178	1	161	21	157
	2	169	22	163	42	178	62	168	82	165	102	182	122	174	2	167	22	146
	3	157	23	173	43	239	63	175	83	172	103	175	123	159	3	162	23	147
	4	177	24	172	44	169	64	184	84	175	104	172	124	181	4	175	24	152
	5	167	25	177	45	173	65	233	85	174	105	173	125	173	5	173	25	164
	6	176	26	151	46	172	66	184	86	173	106	167	126	162	6	169	26	162
	7	175	27	192	47	186	67	170	87	179	107	170	127	177	7	169	27	160
	8	190	28	182	48	170	68	176	88	171	108	179	128	164	8	165		
	9	167	29	165	49	176	69	192	89	193	109	144	129	180	9	175		
	10	183	30	170	50	169	70	189	90	173	110	154	130	157	10	179		
	11	168	31	177	51	172	71	175	91	171	111	174	131	161	11	174		
	12	176	32	182	52	164	72	163	92	175	112	164	132	173	12	158		
	13	171	33	180	53	169	73	168	93	160	113	167	133	191	13	173		
	14	165	34	181	54	161	74	176	94	155	114	157	134	167	14	171		
	15	161	35	168	55	185	75	171	95	178	115	166	135	164	15	167		
	16	172	36	165	56	170	76	172	96	172	116	163	136	164	16	173		
	17	175	37	177	57	187	77	180	97	190	117	187	137	159	17	168		
	18	179	38	175	58	169	78	160	98	173	118	167	138	155	18	170		
	19	178	39	191	59	167	79	170	99	178	119	181	139	163	19	169		
	20	166	40	156	60	167	80	176	100	172	120	187	140	171	20	166		
															141	161		
M2	Codend(60mm)												Covernet					
	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)		
	1	188	6	189	11	225	16	206	21	178	26	193	31	246	36	240	1	177
	2	217	7	177	12	215	17	207	22	164	27	185	32	201	37	192	2	168
	3	177	8	178	13	171	18	170	23	207	28	207	33	210	38	182	3	176
	4	225	9	184	14	177	19	180	24	183	29	250	34	200	39	199	4	174
5	219	10	208	15	178	20	216	25	184	30	225	35	207	40	226			
	40 individuals were measured from 89 fish caught in the codend.																	
M3	Codend(70mm)												Covernet					
	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)		
	1	240	6	199	11	190	16	198	21	158	26	215	31	204	36	168	1	173
	2	197	7	170	12	199	17	220	22	196	27	193	32	188	37	209		
	3	204	8	228	13	189	18	181	23	203	28	219	33	204	38	179		
	4	226	9	222	14	173	19	184	24	226	29	183	34	196	39	200		
5	190	10	204	15	180	20	198	25	167	30	208	35	198					
M4	Codend(70mm)												Covernet					
	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	no data					
	1	197	3	168	5	212	7	215	9	206								
2	241	4	192	6	197	8	181											

Table 1-9-1 (8) The data of body length of mesh selectivity test

Dentex canariensis (1/2)

The 3rd survey (25 Jul. - 13 Aug. 2001)

St.	Codend(60mm)						Covernet(40mm)											
M1	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)			
	1	159	53	5	194	93	1	157	52	5	149	46	9	158	49	13	101	12
	2	191	87	6	165	58	2	172	63	6	149	52	10	137	32	14	100	11
	3	137	34	7	146	44	3	155	41	7	108	14	11	145	39			
	4	189	87				4	187	74	8	92	9	12	93	10			
M2	Codend(60mm)						Covernet(40mm)											
	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)			
	1	208	114	21	170	69	41	234	168	61	148	43	81	393	745	1	157	53
	2	296	373	22	174	73	42	175	70	62	243	182	82	266	267	2	149	46
	3	279	292	23	165	65	43	232	169	63	200	107	83	189	95	3	182	72
	4	138	42	24	192	97	44	264	218	64	203	116	84	288	315	4	149	43
	5	171	71	25	130	37	45	270	271	65	265	248	85	179	71	5	158	52
	6	296	317	26	219	148	46	248	191	66	154	49	86	285	312	6	160	51
	7	178	80	27	182	84	47	198	113	67	157	52	87	288	281	7	122	23
	8	219	138	28	221	135	48	181	89	68	306	351	88	230	177			
	9	374	591	29	192	96	49	179	87	69	225	144	89	173	71			
	10	278	281	30	178	79	50	205	113	70	253	231	90	277	284			
	11	310	406	31	170	67	51	180	83	71	186	89	91	184	82			
	12	192	92	32	224	153	52	195	111	72	276	279	92	212	131			
	13	150	49	33	243	196	53	282	299	73	193	98	93	175	69			
	14	187	87	34	159	56	54	188	90	74	173	68	94	167	61			
	15	191	96	35	185	85	55	182	85	75	149	49						
	16	150	51	36	184	82	56	206	121	76	220	137						
	17	193	104	37	158	56	57	176	70	77	169	73						
	18	200	128	38	208	113	58	282	297	78	173	72						
19	146	42	39	110	21	59	163	56	79	216	124							
20	144	44	40	190	96	60	276	277	80	357	576							
M3	Codend(70mm)						Covernet(40mm)											
	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)			
	1	440	1066	14	250	183	27	388	764	40	211	116	53	182	83	1	176	65
	2	186	89	15	171	58	28	349	505	41	428	947	54	183	86	2	153	43
	3	277	260	16	293	303	29	320	376	42	182	84	55	201	121	3	131	24
	4	331	468	17	149	46	30	196	104	43	179	85	56	163	62	4	96	9
	5	387	707	18	182	77	31	173	69	44	152	56	57	189	81	5	181	69
	6	178	74	19	241	189	32	182	79	45	173	67	58	161	53	6	95	9
	7	202	101	20	368	608	33	195	90	46	225	145	59	135	35			
	8	241	168	21	225	151	34	163	57	47	248	198	60	145	41			
	9	173	69	22	166	57	35	183	78	48	172	69	61	116	25			
	10	210	127	23	145	42	36	162	66	49	148	45	62	161	52			
	11	247	192	24	132	33	37	237	165	50	161	53	63	165	66			
12	368	646	25	158	52	38	255	209	51	181	79	64	132	36				
13	261	219	26	160	65	39	147	49	52	186	79							
M4	Codend(70mm)						Covernet(40mm)											
	no data						no data											

Table 1-9-1 (9) The data of body length of mesh selectivity test

Dentex canariensis (2/2)

The 4th survey (29 Oct. - 16 Nov. 2001)

St.	Codend(60mm)				Covernet(40mm)													
	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)
M1	1	259	19	112	1	121	19	137	37	89	55	98	73	95	91	107	109	92
	2	126	20	110	2	102	20	141	38	159	56	89	74	128	92	91	110	125
	3	144	21	136	3	90	21	95	39	131	57	115	75	114	93	144	111	96
	4	149	22	157	4	131	22	155	40	118	58	131	76	140	94	116	112	124
	5	137	23	140	5	134	23	126	41	86	59	120	77	103	95	118	113	124
	6	140	24	112	6	126	24	122	42	146	60	123	78	134	96	113	114	109
	7	127	25	119	7	105	25	133	43	115	61	137	79	132	97	109	115	80
	8	154	26	152	8	95	26	131	44	127	62	101	80	107	98	97	116	96
	9	139	27	165	9	159	27	110	45	121	63	135	81	85	99	143	117	82
	10	139	28	137	10	111	28	100	46	127	64	165	82	102	100	93	118	127
	11	156	29	142	11	98	29	135	47	144	65	107	83	127	101	109	119	131
	12	144	30	94	12	124	30	113	48	135	66	86	84	131	102	112	120	84
	13	124	31	165	13	110	31	141	49	138	67	98	85	118	103	122	121	98
	14	141	32	165	14	147	32	129	50	127	68	113	86	81	104	90	122	129
	15	152	33	111	15	109	33	143	51	130	69	123	87	137	105	125	123	116
	16	133	34	149	16	115	34	134	52	130	70	122	88	104	106	130	124	93
	17	115			17	111	35	121	53	95	71	88	89	110	107	152	125	78
	18	141			18	115	36	111	54	87	72	116	90	102	108	92	126	95
M2	Codend(60mm)				Covernet(40mm)													
	no data				no data													
M3	Codend(70mm)				Covernet(40mm)													
	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)
	1	321	7	160	13	233	19	307	1	113	7	140	13	147	19	102		
	2	161	8	262	14	235	20	180	2	152	8	121	14	160	20	111		
	3	167	9	264	15	188	21	236	3	103	9	163	15	155	21	125		
	4	286	10	280	16	205	22	243	4	109	10	134	16	137				
	5	172	11	232	17	298	23	309	5	131	11	145	17	138				
6	187	12	216	18	273			6	141	12	132	18	137					
M4	Codend(70mm)				Covernet(40mm)													
	No.	TL(mm)	No.	TL(mm)									No.	TL(mm)				
1	192	2	211									1	167					

Table 1-9-1 (10) The data of body length of mesh selectivity test

Sparus caeruleostictus (1/3)

The 3rd survey (25 Jul. - 13 Aug. 2001)

St.	Codend(60mm)									Covernet(40mm)								
	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)
M1	1	201	119	21	143	45	41	157	52	1	143	40	21	104	14	41	99	16
	2	205	138	22	146	54	42	127	31	2	167	67	22	129	30	42	84	7
	3	216	150	23	152	55	43	124	31	3	125	24	23	113	18	43	114	23
	4	170	93	24	132	38	44	157	65	4	169	69	24	138	34	44	122	29
	5	240	187	25	127	34	45	122	31	5	157	49	25	115	24	45	100	14
	6	196	106	26	138	42	46	114	22	6	125	29	26	94	8	46	109	19
	7	202	142	27	157	66	47	129	32	7	122	25	27	127	29			
	8	182	98	28	153	60	48	117	26	8	158	54	28	106	11			
	9	180	95	29	135	42	49	137	38	9	115	20	29	122	32			
	10	196	113	30	144	46	50	114	21	10	118	21	30	111	16			
	11	187	119	31	134	36	51	133	36	11	129	30	31	121	26			
	12	211	143	32	129	32	52	108	20	12	131	29	32	103	15			
	13	205	129	33	112	27	53	124	31	13	107	14	33	112	18			
	14	156	59	34	139	40	54	127	35	14	147	44	34	132	33			
	15	155	64	35	138	43	55	108	21	15	141	39	35	116	23			
	16	168	71	36	108	19	56	118	27	16	117	19	36	116	23			
	17	152	59	37	150	55	57	110	20	17	177	71	37	110	20			
	18	160	69	38	142	44	58	124	28	18	152	52	38	109	21			
	19	169	75	39	170	68	59	152	51	19	136	31	39	139	38			
	20	167	68	40	168	72	60	142	46	20	142	37	40	141	46			
M2	Codend(60mm)									Covernet(40mm)								
	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)
	1	314	507	26	156	63	51	195	123	76	146	48	1	141	37	30	93	10
	2	261	284	27	243	215	52	163	67	77	98	14	2	142	40	31	81	8
	3	218	146	28	246	212	53	153	59	78	140	45	3	137	40	32	91	10
	4	285	340	29	188	105	54	217	142	79	163	62	4	98	13	33	121	25
	5	328	481	30	259	263	55	179	89	80	148	53	5	117	23	34	108	18
	6	129	34	31	331	547	56	188	114	81	161	70	6	102	12	35	136	36
	7	169	72	32	252	238	57	207	151	82	171	75	7	148	45	36	113	22
	8	207	139	33	168	71	58	154	55	83	163	72	8	111	17	37	85	8
	9	224	148	34	108	18	59	200	129	84	122	27	9	148	45	38	111	19
	10	153	52	35	189	109	60	143	44				10	152	50	39	143	38
	11	179	84	36	136	41	61	138	37				11	103	13	40	122	26
	12	154	56	37	113	18	62	323	481				12	83	8	41	115	26
	13	229	176	38	150	54	63	206	129				13	101	16	42	112	22
	14	216	147	39	145	42	64	140	45				14	105	16	43	112	21
	15	160	63	40	158	67	65	257	256				15	138	36	44	101	17
	16	186	108	41	192	106	66	320	483				16	125	30	45	103	17
	17	225	179	42	147	53	67	253	242				17	176	80	46	92	12
	18	173	86	43	140	49	68	165	73				18	111	21	47	80	7
	19	222	192	44	145	50	69	141	48				19	87	9	48	107	19
	20	216	155	45	199	122	70	189	102				20	94	12	49	89	11
	21	196	111	46	234	178	71	255	267				21	122	26	50	123	26
	22	204	142	47	140	42	72	285	376				22	103	15	51	92	12
	23	321	482	48	181	98	73	291	384				23	111	22	52	93	12
	24	206	138	49	231	207	74	156	55				24	136	33	53	106	18
	25	235	205	50	205	118	75	249	238				25	128	30	54	78	6
													26	111	18	55	79	6
													27	97	13	56	97	14
												28	134	34	57	82	8	
												29	111	19	58	92	11	

84 individuals were measured from 207 fish caught in the codend.

Table 1-9-1 (11) The data of body length of mesh selectivity test

Sparus caeruleostictus (2/3)

The 3rd survey (25 Jul. - 13 Aug. 2001)

St.	Codend(70mm)												Covernet(40mm)					
	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)
M3	1	335	539	32	177	77	63	324	488	94	187	99	1	151	42	32	141	37
	2	177	89	33	401	842	64	358	695	95	162	65	2	135	32	33	111	17
	3	146	49	34	148	46	65	279	321	96	115	21	3	98	11	34	116	20
	4	188	101	35	165	64	66	356	645	97	150	53	4	113	20	35	142	39
	5	186	93	36	154	56	67	312	454	98	142	45	5	102	12	36	120	25
	6	171	82	37	141	83	68	196	181	99	147	46	6	98	9	37	147	41
	7	146	51	38	169	68	69	150	50	100	124	27	7	152	51	38	103	12
	8	130	37	39	170	73	70	167	61	101	157	59	8	116	19	39	98	14
	9	143	49	40	163	57	71	128	31	102	143	47	9	110	16	40	103	14
	10	117	26	41	165	65	72	181	81	103	202	131	10	152	49	41	115	22
	11	148	52	42	150	48	73	168	73	104	152	54	11	125	22	42	97	13
	12	207	115	43	162	64	74	202	146	105	157	60	12	146	38	43	83	6
	13	294	420	44	147	46	75	161	62	106	153	64	13	100	12	44	122	25
	14	170	71	45	170	71	76	181	81	107	192	104	14	119	20	45	99	12
	15	128	37	46	153	56	77	153	53	108	145	51	15	99	13	46	125	29
	16	305	379	47	180	85	78	95	12	109	140	45	16	104	13	47	97	13
	17	173	76	48	133	37	79	154	56	110	154	58	17	91	8	48	112	18
	18	325	532	49	166	68	80	115	19	111	154	59	18	152	45	49	103	14
	19	299	404	50	151	58	81	176	81	112	133	36	19	117	20	50	99	12
	20	139	38	51	148	53	82	138	40	113	473	1671	20	155	48	51	106	21
	21	338	522	52	158	63	83	124	29	114	341	584	21	116	20	52	124	25
	22	151	56	53	175	82	84	153	50	115	346	583	22	162	65	53	112	19
	23	171	75	54	110	21	85	171	84	116	342	682	23	94	9	54	108	17
	24	137	40	55	118	27	86	124	27	117	341	597	24	150	44	55	111	20
	25	192	98	56	159	65	87	137	37	118	160	63	25	118	20	56	103	16
	26	183	80	57	182	90	88	158	57	119	123	30	26	98	12	57	117	21
	27	178	85	58	115	23	89	144	46	120	168	67	27	121	24	58	128	29
	28	153	54	59	178	84	90	149	45	121	183	94	28	138	34	59	121	26
	29	336	578	60	314	520	91	155	61	122	164	70	29	136	35	60	108	23
	30	334	514	61	332	556	92	148	51	123	143	60	30	130	27			
	31	139	40	62	373	825	93	177	71				31	118	21			
M4	Codend(70mm)												Covernet(40mm)					
	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)
	1	191	101	27	145	40	1	115	24	27	106	17	53	117	24	79	91	11
	2	198	113	28	270	287	2	136	40	28	92	11	54	147	48	80	93	13
	3	191	103	29	169	70	3	93	14	29	101	13	55	85	9	81	92	11
	4	235	194	30	185	84	4	92	13	30	95	15	56	84	8	82	94	11
	5	171	78	31	168	70	5	92	12	31	96	14	57	93	12	83	103	16
	6	219	155	32	180	85	6	111	24	32	97	14	58	92	11	84	87	10
	7	232	165	33	190	102	7	93	12	33	85	10	59	92	11	85	102	17
	8	199	116	34	172	72	8	101	21	34	97	14	60	91	11	86	95	13
	9	214	144	35	205	125	9	89	10	35	84	8	61	107	20	87	95	13
	10	161	63	36	165	62	10	93	12	36	93	12	62	99	13	88	102	14
	11	145	42	37	152	48	11	104	16	37	116	26	63	103	15	89	89	11
	12	125	31	38	155	51	12	92	13	38	135	38	64	105	18	90	99	14
	13	249	216	39	169	69	13	81	9	39	152	50	65	98	15	91	86	10
	14	220	144	40	155	56	14	98	15	40	96	13	66	97	16	92	89	10
	15	171	77	41	152	53	15	106	19	41	90	12	67	105	17	93	110	22
	16	173	72	42	135	34	16	115	22	42	96	11	68	97	15	94	107	19
	17	185	89	43	160	61	17	97	16	43	90	11	69	110	20	95	92	11
	18	195	104	44	161	56	18	144	46	44	111	22	70	87	10	96	93	12
	19	282	305	45	156	47	19	107	18	45	99	14	71	92	11	97	89	11
	20	232	166	46	152	46	20	109	18	46	87	9	72	92	13	98	92	12
	21	175	88	47	140	36	21	96	13	47	96	13	73	97	14	99	92	11
	22	182	86	48	152	47	22	92	11	48	104	18	74	74	5	100	111	23
	23	171	72	49	92	9	23	90	12	49	102	16	75	91	11	101	84	9
	24	168	68	50	152	46	24	136	42	50	91	10	76	92	10	102	91	9
25	161	56				25	109	21	51	95	12	77	87	10	103	89	10	
26	162	65				26	112	21	52	98	14	78	91	11	104	82	8	

Table 1-9-1 (12) The data of body length of mesh selectivity test

Sparus caeruleostictus (3/3)

The 4th survey (29 Oct. - 16 Nov. 2001)

St.	Codend(60mm)												Covernet(40mm)					
	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)
M1	1	182	31	120	61	128	91	165	121	129	151	146	1	134	34	139	67	109
	2	157	32	115	62	149	92	110	122	126	152	123	2	127	35	108	68	83
	3	141	33	123	63	122	93	122	123	125	153	115	3	110	36	112	69	104
	4	131	34	139	64	123	94	136	124	186	154	114	4	131	37	92	70	131
	5	150	35	123	65	110	95	119	125	115	155	135	5	108	38	137	71	109
	6	150	36	116	66	102	96	126	126	153	156	134	6	115	39	114	72	111
	7	119	37	119	67	127	97	105	127	126	157	109	7	104	40	95	73	107
	8	129	38	111	68	108	98	101	128	147			8	111	41	93	74	108
	9	128	39	162	69	136	99	119	129	139			9	126	42	107	75	121
	10	162	40	136	70	124	100	114	130	110			10	106	43	137	76	130
	11	119	41	129	71	107	101	122	131	127			11	95	44	93	77	102
	12	136	42	129	72	107	102	115	132	129			12	104	45	130	78	110
	13	114	43	125	73	140	103	158	133	112			13	96	46	137	79	123
	14	115	44	147	74	145	104	108	134	116			14	133	47	110	80	110
	15	152	45	139	75	162	105	116	135	120			15	114	48	88	81	122
	16	106	46	166	76	107	106	116	136	110			16	122	49	88	82	117
	17	121	47	131	77	144	107	111	137	185			17	143	50	114	83	119
	18	117	48	116	78	129	108	107	138	130			18	114	51	106	84	123
	19	129	49	109	79	100	109	146	139	131			19	94	52	111	85	131
	20	144	50	98	80	141	110	127	140	128			20	88	53	125	86	124
	21	113	51	128	81	136	111	113	141	129			21	103	54	119	87	105
	22	131	52	113	82	122	112	109	142	124			22	140	55	132	88	108
	23	149	53	114	83	126	113	115	143	103			23	89	56	108	89	97
	24	124	54	214	84	128	114	146	144	103			24	118	57	103	90	97
	25	139	55	136	85	127	115	106	145	127			25	109	58	97	91	114
	26	151	56	127	86	169	116	111	146	119			26	133	59	113	92	113
	27	117	57	127	87	117	117	128	147	121			27	112	60	82	93	99
	28	133	58	121	88	116	118	124	148	121			28	115	61	124	94	98
	29	131	59	114	89	121	119	120	149	124			29	98	62	114	95	125
	30	134	60	123	90	129	120	121	150	124			30	107	63	93	96	105
													31	123	64	112	97	134
													32	107	65	105	98	88
													33	119	66	98	99	98
M2	Codend(60mm)												Covernet(40mm)					
	no data												no data					
M3	Codend(70mm)												Covernet(40mm)					
	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)
1	286	8	191	15	166	22	331	29	248	36	228	43	128	1	146	8	129	
2	180	9	139	16	192	23	245	30	211	37	195	44	137	2	113			
3	135	10	155	17	195	24	214	31	135	38	191	45	136	3	118			
4	200	11	190	18	260	25	202	32	188	39	170	46	165	4	125			
5	178	12	173	19	228	26	191	33	124	40	142	47	253	5	107			
6	176	13	247	20	226	27	253	34	140	41	170	48	324	6	133			
7	121	14	239	21	230	28	335	35	168	42	136			7	104			
M4	Codend(70mm)												Covernet					
	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)
1	193	6	193	11	162	16	156	21	213	26	154	31	173	1	157			
2	209	7	207	12	193	17	184	22	206	27	208	32	141	2	131			
3	182	8	211	13	171	18	248	23	163	28	197	33	224	3	127			
4	172	9	172	14	338	19	177	24	166	29	162	34	144					
5	181	10	186	15	214	20	186	25	178	30	163							

Table 1-9-1 (13) The data of body length of mesh selectivity test

Pagellus bellottii(1/2)

The 3rd survey (25 Jul. - 13 Aug. 2001)

St.	Codend(60mm)									Covernet(40mm)								
M1	no data									no data								
M2	Codend(60mm)									Covernet(40mm)								
	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)
	1	199	107	22	157	60	43	195	108	64	161	55	1	175	66	22	136	30
	2	278	303	23	248	209	44	219	144	65	258	221	2	138	29	23	125	23
	3	272	277	24	333	419	45	172	66	66	207	102	3	179	63	24	157	41
	4	262	236	25	170	65	46	226	168	67	180	76	4	138	31	25	168	50
	5	228	143	26	251	181	47	198	106	68	135	31	5	122	21	26	148	36
	6	230	152	27	195	109	48	224	146	69	208	106	6	138	33	27	167	54
	7	149	42	28	176	78	49	183	76	70	173	67	7	139	32	28	122	21
	8	227	157	29	193	93	50	262	242	71	148	39	8	138	29	29	169	59
	9	160	52	30	219	136	51	198	106	72	184	85	9	152	42	30	121	20
	10	156	43	31	244	184	52	179	70	73	165	55	10	138	33	31	134	28
	11	181	74	32	227	161	53	157	59	74	214	119	11	142	33	32	132	28
	12	236	175	33	176	72	54	158	54	75	146	43	12	138	31	33	125	21
	13	188	89	34	187	88	55	236	169	76	188	79	13	120	22	34	121	20
	14	269	262	35	237	171	56	285	307	77	138	30	14	128	22	35	140	30
	15	229	154	36	276	259	57	163	59	78	171	65	15	185	75	36	125	22
	16	173	70	37	295	320	58	198	94	79	169	59	16	122	23	37	168	53
	17	187	88	38	233	154	59	291	330	80	201	106	17	145	33			
	18	273	251	39	192	90	60	184	81	81	153	48	18	156	45			
	19	206	116	40	184	87	61	150	44	82	146	37	19	118	17			
20	198	108	41	284	302	62	151	45	83	174	76	20	136	30				
21	168	63	42	196	100	63	233	170	84	146	42	21	131	23				
84 individuals were measured from 204 fish caught in the codend.																		
M3	Codend(70mm)									Covernet(40mm)								
	no data									no data								
M4	Codend(70mm)									Covernet(40mm)								
	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)
	1	165	65	34	174	72	67	178	67	1	189	82	34	187	80	67	156	42
	2	184	87	35	127	27	68	191	86	2	139	31	35	115	16	68	117	19
	3	139	38	36	171	79	69	188	79	3	172	57	36	132	29	69	118	18
	4	194	101	37	159	49	70	171	68	4	125	22	37	143	34	70	141	33
	5	179	76	38	171	66	71	154	54	5	132	23	38	142	32	71	125	23
	6	209	111	39	171	66	72	169	68	6	143	33	39	113	14	72	132	25
	7	167	58	40	173	65	73	169	62	7	135	32	40	122	23	73	148	38
	8	210	113	41	191	83	74	158	56	8	144	35	41	143	32	74	117	18
	9	175	65	42	172	63	75	186	79	9	167	54	42	132	30	75	145	35
	10	148	39	43	174	81	76	160	59	10	140	33	43	145	38	76	131	26
	11	182	71	44	170	56	77	191	97	11	175	69	44	139	31	77	163	52
	12	185	78	45	171	63	78	156	49	12	129	22	45	132	25	78	141	31
	13	188	77	46	182	76	79	206	121	13	141	36	46	137	30	79	178	67
	14	188	83	47	198	93	80	193	92	14	136	31	47	143	35			
	15	196	85	48	180	69	81	154	47	15	132	29	48	163	62			
	16	134	32	49	189	79	82	184	77	16	136	30	49	158	46			
	17	159	49	50	167	53	83	160	55	17	153	43	50	142	34			
	18	198	92	51	175	60	84	178	67	18	142	30	51	178	68			
	19	135	30	52	126	23	85	186	83	19	142	31	52	144	35			
	20	186	79	53	209	108	86	223	132	20	173	69	53	166	60			
	21	206	97	54	211	127	87	197	86	21	163	52	54	181	77			
	22	184	82	55	134	28	88	143	38	22	135	31	55	155	48			
	23	187	82	56	214	119	89	166	56	23	173	61	56	146	41			
	24	194	88	57	126	24	90	144	37	24	155	44	57	148	41			
	25	172	73	58	151	41	91	184	74	25	152	42	58	128	25			
	26	134	33	59	151	42	92	185	79	26	153	42	59	145	38			
	27	177	70	60	159	50	93	136	31	27	126	24	60	63	1			
	28	182	88	61	178	64	94	156	44	28	181	61	61	172	62			
	29	140	33	62	194	91	95	184	74	29	167	58	62	165	59			
	30	153	44	63	219	132	96	174	60	30	132	26	63	126	25			
	31	187	92	64	173	69	97	131	24	31	137	35	64	120	20			
32	188	82	65	161	58	98	191	87	32	127	21	65	145	40				
33	183	76	66	179	79	99	130	30	33	148	39	66	131	25				
99 individuals were measured from 258 fish caught in the codend.									79 individuals were measured from 185 fish caught in the covernet.									

Table 1-9-1 (14) The data of body length of mesh selectivity test

Pagellus bellottii(2/2)

The 4th survey (29 Oct - 16 Nov. 2001)

St.	Codend(60mm)				Covernet(40mm)													
	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)
M1	1	150	21	95	1	85	21	85	41	78	61	92	81	112	101	104	122	90
	2	112	22	119	2	88	22	76	42	71	62	104	82	93	102	61	123	75
	3	150	23	89	3	82	23	80	43	79	63	120	83	82	103	90	124	73
	4	82	24	101	4	70	24	73	44	75	64	93	84	90	104	61	125	66
	5	145	25	98	5	91	25	85	45	75	65	116	85	82	105	83	126	79
	6	107	26	99	6	72	26	76	46	76	66	83	86	87	106	104	127	56
	7	122	27	101	7	120	27	77	47	90	67	64	87	81	107	85	128	84
	8	126	28	105	8	84	28	82	48	95	68	123	88	111	108	81	129	78
	9	134	29	84	9	97	29	107	49	104	69	87	89	106	109	89	130	89
	10	136	30	86	10	107	30	103	50	100	70	98	90	94	110	74	131	94
	11	115	31	100	11	74	31	74	51	125	71	127	91	83	111	92	132	112
	12	99	32	99	12	75	32	73	52	111	72	109	92	89	112	78	133	90
	13	124	33	104	13	108	33	83	53	81	73	80	93	125	113	96	134	92
	14	110	34	80	14	83	34	79	54	103	74	101	94	114	114	77	135	105
	15	110	35	78	15	109	35	83	55	88	75	91	95	74	115	99	136	98
	16	87	36	86	16	105	36	97	56	80	76	79	96	109	116	111	137	64
	17	103	37	78	17	81	37	93	57	92	77	81	97	93	117	81	138	82
	18	102	38	110	18	111	38	85	58	88	78	79	98	86	118	81	139	77
	19	125	39	113	19	75	39	75	59	102	79	88	99	106	119	87	140	87
	20	73	40	116	20	111	40	107	60	69	80	85	100	107	120	79	141	71
		41	112										121	88	142	88		
142 individuals were measured from 783 fish caught in the covernet.																		
M2	Codend(60mm)				Covernet(40mm)													
	no data				No.	TL(mm)												
					1	86												
M3	Codend(70mm)				Covernet(40mm)													
	no data				No.	TL(mm)												
					1	79												
M4	Codend(70mm)				Covernet(40mm)													
	No.	TL(mm)			No.	TL(mm)												
	1	117			1	83												

Table 1-9-1 (15) The data of body length of mesh selectivity test

Galeoides decadactylus(1/2)

The 3rd survey (25 Jul. - 13 Aug. 2001)

St.	Codend(60mm)									Covernet(40mm)								
	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)
M1	1	176	56	11	189	67	21	174	46	1	198	76	11	112	15	21	138	24
	2	255	151	12	271	203	22	162	43	2	141	26	12	208	92	22	122	17
	3	230	112	13	218	103	23	179	59	3	155	40	13	136	22	23	172	52
	4	235	126	14	252	163	24	203	80	4	169	46	14	153	35	24	163	38
	5	207	82	15	211	84				5	142	29	15	133	22	25	92	6
	6	228	116	16	212	85				6	208	90	16	162	39	26	131	22
	7	234	120	17	277	237				7	133	22	17	108	11	27	123	16
	8	217	92	18	183	58				8	125	20	18	122	18	28	96	7
	9	242	149	19	151	34				9	133	22	19	123	18	29	132	20
	10	248	152	20	163	43				10	199	86	20	122	15	30	127	20
M2	Codend(60mm)									Covernet(40mm)								
	No.	TL(mm)	W(gr)							No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)			
	1	210	84							1	202	76	2	116	16			
M3	Codend(70mm)									Covernet(40mm)								
	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)
	1	209	88	10	252	168	19	207	84	28	205	97	37	212	96	1	204	80
	2	202	87	11	188	67	20	264	192	29	230	121	38	256	174	2	241	139
	3	203	89	12	278	213	21	201	78	30	251	170	39	205	90	3	196	71
	4	250	161	13	263	184	22	269	235	31	195	71	40	220	103	4	208	85
	5	218	101	14	237	136	23	212	90	32	242	145	41	221	102	5	172	55
	6	193	66	15	180	72	24	211	93	33	202	86	42	203	78	6	209	85
	7	202	82	16	172	58	25	193	80	34	273	214	43	212	99	7	171	55
	8	211	84	17	208	85	26	210	92	35	198	83				8	202	67
9	200	77	18	169	51	27	192	70	36	295	255				9	171	51	
M4	Codend(70mm)									Covernet(40mm)								
	no data									no data								

Table 1-9-1 (16) The data of body length of mesh selectivity test

Galeoides decadactylus(2/2)

The 4th survey (29 Oct. - 16 Nov. 2001)

St.	Codend(60mm)		Covernet(40mm)											
	M1	no data		No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.
1				117	3	108	5	131	7	115	9	109	11	106
2				111	4	118	6	115	8	110	10	112	12	137
M2	Codend(60mm)		Covernet(40mm)											
	no data		no data											
M3	Codend(70mm)		Covernet(40mm)											
	No.	TL(mm)	no data											
	1	327												
M4	Codend(70mm)		Covernet(40mm)											
	no data		no data											

The 5th survey (20 Jul. - 5 Aug. 2002)

St.	Codend(60mm)				Covernet(40mm)											
	M1	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.
1		251	10	186	1	159	10	182	19	177	28	171	37	160	46	201
2		232	11	211	2	171	11	158	20	198	29	172	38	177	47	174
3		228	12	201	3	159	12	175	21	164	30	163	39	166	48	173
4		253	13	206	4	163	13	171	22	169	31	164	40	172	49	181
5		248	14	206	5	156	14	174	23	183	32	180	41	174	50	171
6		168	15	246	6	185	15	183	24	166	33	183	42	176	51	183
7		315	16	199	7	170	16	184	25	189	34	166	43	174	52	150
8		210	17	248	8	161	17	161	26	168	35	182	44	184	53	190
9		176	18	173	9	181	18	173	27	167	36	166	45	166	54	189
M2	Codend(60mm)				Covernet(40mm)											
	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)
	1	189	2	216	1	211	2	202	3	171	4	213	5	178		
M3	Codend(70mm)				Covernet(40mm)											
	no data				no data											
M4	Codend(70mm)				Covernet(40mm)											
	no data				no data											

Table 1-9-1 (17) The data of body length of mesh selectivity test

Pseudo-lithus senegalensis

The 3rd survey (25 Jul. - 13 Aug. 2001)

St.	Codend(60mm)												Covernet(40mm)					
M1	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)			
	1	306	268	5	414	640	9	393	611	13	311	265	17	238	105	1	293	216
	2	392	604	6	247	129	10	335	361	14	404	653				2	298	248
	3	420	685	7	266	161	11	296	205	15	281	179				3	249	116
	4	255	129	8	285	197	12	288	178	16	248	115				4	278	186
M2	Codend(60mm)												Covernet(40mm)					
	no data												no data					
M3	Codend(70mm)												Covernet(40mm)					
	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)										no data		
	1	375	533	2	1040	9490												
M4	Codend(70mm)												Covernet(40mm)					
	no data												no data					

The 4th survey (29 Oct. - 16 Nov. 2001)

St.	Codend(60mm)						Covernet(40mm)					
M1	No.	TL(mm)	No.	TL(mm)	No.	TL(mm)						
	1	362	3	187	5	379	no data					
	2	395	4	414								
M2	Codend(60mm)						Covernet(40mm)					
	no data						no data					
M3	Codend(70mm)						Covernet(40mm)					
	no data						no data					
M4	Codend(70mm)						Covernet(40mm)					
	no data						no data					

The 5th survey (20 Jul. - 5 Aug. 2002)

St.	Codend(60mm)						Covernet(40mm)		
M1	No.	TL(mm)				No.	TL(mm)		
	1	448				1	205		
	2	357							
M2	Codend(60mm)						Covernet(40mm)		
	no data						no data		
M3	Codend(70mm)						Covernet(40mm)		
	no data						no data		
M4	Codend(70mm)						Covernet(40mm)		
	no data						no data		

Table 1-9-1 (18) The data of body length of mesh selectivity test

Pseudopeneus prayensis (1/2)

The 3rd survey (25 Jul. - 13 Aug. 2001)

St.	Codend(60mm)															Covernet(40mm)							
M1	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)					
	1	176	61	3	205	99	4	186	72	5	186	79	6	183	70	1	185	69					
	2	177	63																				
M2	Codend(60mm)									Covernet(40mm)													
	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)					
	1	265	264	41	163	80	81	211	118	1	162	47	41	132	27	81	142	30					
	2	194	102	42	182	86	82	177	78	2	210	120	42	152	38	82	132	23					
	3	146	38	43	198	100	83	197	112	3	147	36	43	193	98	83	159	45					
	4	178	68	44	229	174	84	142	36	4	153	41	44	167	52	84	135	28					
	5	168	56	45	196	104	85	184	84	5	166	56	45	127	23								
	6	178	64	46	151	44	86	188	86	6	141	33	46	168	55								
	7	177	66	47	210	128	87	186	88	7	164	55	47	154	43								
	8	196	100	48	178	70	88	186	78	8	117	17	48	183	74								
	9	205	98	49	191	92	89	182	78	9	141	29	49	128	22								
	10	190	92	50	180	76	90	227	174	10	156	44	50	141	34								
	11	234	146	51	206	108	91	204	112	11	142	28	51	135	29								
	12	153	48	52	195	98	92	159	50	12	134	28	52	187	70								
	13	197	88	53	194	88	93	165	52	13	164	49	53	138	29								
	14	210	110	54	177	72	94	212	130	14	169	54	54	158	45								
	15	192	94	55	177	74	95	152	38	15	154	42	55	141	34								
	16	201	104	56	238	164	96	210	106	16	145	36	56	121	20								
	17	185	50	57	178	72	97	181	68	17	157	44	57	113	14								
	18	196	96	58	167	56	98	154	46	18	161	48	58	162	47								
	19	164	52	59	184	74	99	197	102	19	153	41	59	163	54								
	20	164	50	60	199	106	100	178	68	20	189	84	60	132	26								
	21	188	88	61	204	106	101	141	34	21	171	64	61	138	26								
	22	174	74	62	188	86	102	172	64	22	169	59	62	131	28								
	23	136	28	63	230	152	103	180	76	23	142	35	63	130	22								
	24	155	46	64	180	68	104	136	30	24	163	50	64	132	26								
	25	170	62	65	154	42	105	186	90	25	147	36	65	122	17								
	26	187	80	66	236	178	106	195	94	26	172	62	66	168	54								
	27	156	48	67	169	58	107	220	136	27	187	54	67	148	34								
	28	156	42	68	179	70	108	171	64	28	191	79	68	137	24								
	29	167	60	69	184	82	109	180	72	29	153	39	69	141	26								
	30	182	78	70	197	118	110	179	76	30	153	42	70	143	33								
	31	183	80	71	137	30	111	166	56	31	165	55	71	128	21								
	32	142	44	72	135	30	112	195	106	32	161	48	72	126	19								
	33	141	34	73	122	22	113	185	76	33	142	35	73	163	57								
	34	132	32	74	227	174	114	201	102	34	174	68	74	118	16								
	35	171	60	75	164	56	115	215	132	35	152	41	75	132	29								
	36	190	98	76	186	92	116	158	50	36	132	23	76	168	51								
	37	180	72	77	170	62	117	214	132	37	182	81	77	161	48								
	38	186	82	78	167	62	118	164	58	38	146	35	78	138	30								
	39	151	44	79	173	70	119	143	34	39	167	52	79	172	56								
40	198	98	80	165	54													40	138	27	80	141	32
119 individuals were measured from 205 fish caught in the codend.																							
M3	Codend(70mm)									Covernet(40mm)													
	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)	No.	TL(mm)	W(gr)					
	1	232	132	16	256	212	31	203	97	46	182	73	1	168	53	16	158	41					
	2	212	117	17	205	100	32	247	163	47	189	90	2	177	59	17	141	26					
	3	206	102	18	202	100	33	152	42	48	215	124	3	152	37	18	148	31					
	4	225	141	19	219	124	34	183	74	49	174	65	4	163	46	19	141	29					
	5	198	88	20	174	56	35	207	132	50	171	63	5	182	64								
	6	176	66	21	211	110	36	238	153	51	240	167	6	142	30								
	7	204	106	22	220	150	37	159	48	52	236	167	7	161	43								
	8	232	155	23	183	73	38	219	122	53	190	85	8	185	73								
	9	172	55	24	225	146	39	230	162	54	216	128	9	153	38								
	10	225	136	25	225	138	40	219	148	55	158	47	10	156	39								
	11	172	57	26	152	39	41	150	39	56	172	65	11	168	53								
	12	227	141	27	198	75	42	231	160	57	185	75	12	166	49								
	13	175	60	28	233	164	43	161	47	58	152	46	13	162	48								
	14	221	121	29	189	80	44	227	145										14	183	65		
15	208	94	30	230	156	45	228	144										15	141	28			

Table 1-9-1 (20) The data of body length of mesh selectivity test

Sepia officinalis

The 3rd survey (25 Jul. - 13 Aug. 2001)

St.	Codend(60mm)												Covernet(40mm)		
M1	No.	ML(mm)	W(gr)	No.	ML(mm)	W(gr)	No.	ML(mm)	W(gr)	No.	ML(mm)	W(gr)	No.	ML(mm)	W(gr)
	1	217	823	5	248	1323	9	181	509	13	135	250	17	112	136
	2	262	1728	6	217	954	10	172	454	14	152	412	18	248	1285
	3	213	915	7	168	461	11	127	194	15	167	442			
	4	258	1642	8	173	595	12	153	343	16	98	100			
M2	Codend(60mm)						Covernet(40mm)								
	no data						No.	ML(mm)	W(gr)						
							1	53	24						
M3	Codend(60mm)						Covernet(40mm)								
	no data						no data								
M4	Codend(60mm)						Covernet(40mm)								
	no data						no data								

The 4th survey (29 Oct. - 16 Nov. 2001)

St.	Codend(60mm)										Covernet	
M1	No.	ML(mm)	No.	ML(mm)	No.	ML(mm)	No.	ML(mm)	No.	ML(mm)	No.	ML(mm)
	1	171	4	158	7	121	10	138	13	168	1	56
	2	123	5	148	8	155	11	145				
	3	162	6	161	9	152	12	158				
M2	Codend(60mm)										Covernet	
	No.	ML(mm)	No.	ML(mm)	No.	ML(mm)	No.	ML(mm)	No.	ML(mm)	No.	ML(mm)
	1	127	11	128	21	275	31	230	42	242	1	36
	2	162	12	141	22	113	32	272	43	203		
	3	250	13	287	23	122	33	207	44	304		
	4	287	14	212	24	196	34	118	45	212		
	5	202	15	214	25	128	35	132	46	258		
	6	203	16	163	26	133	36	121	47	267		
	7	123	17	303	27	178	37	136	48	118		
	8	263	18	295	28	118	38	112	49	98		
	9	141	19	172	29	148	39	188	50	128		
10	143	20	303	30	195	40	282	51	121			
						41	198	52	103			
M3	Codend(70mm)										Covernet	
	No.	ML(mm)	No.	ML(mm)	No.	ML(mm)	No.	ML(mm)	No.	ML(mm)	No.	ML(mm)
	1	211	3	218	5	245	7	87	9	184	1	26
	2	213	4	178	6	167	8	77			2	38
M4	Codend(70mm)										Covernet	
	No.	ML(mm)	No.	ML(mm)	No.	ML(mm)	No.	ML(mm)	no data			
	1	215	4	198	7	195	10	227				
	2	182	5	142	8	223	11	182				
	3	218	6	181	9	224						

The 5th survey (20 Jul. - 5 Aug. 2002)

St.	Codend(60mm)				Covernet(40mm)			
M1	no data				no data			
M2	Codend(60mm)				Covernet(40mm)			
	No.	ML(mm)	No.	ML(mm)	No.	ML(mm)	No.	ML(mm)
	1	145	3	115	5	112	7	161
	2	112	4	76	6	132	8	107
M3	Codend(70mm)				Covernet			
	No.	ML(mm)	No.	ML(mm)	No.	ML(mm)	No.	ML(mm)
	1	105	4	135	7	122	10	68
	2	132	5	96	8	73	11	90
	3	98	6	91	9	81	12	58
							13	73
						14	62	
						15	89	
						16	58	
M4	Codend(70mm)				Covernet(40mm)			
	no data				No.	ML(mm)	No.	ML(mm)
					1	68	4	66
					2	58	5	43
					3	48	6	58
				7	58	8	64	
				9	48	10	63	
				11	68	12	62	
				13	68	14	48	
				15	52			

Data of Land Survey

Table 2-1 Project team members and subject allocations

Member	Job title	Counterpart	Position
Dr. T. Yonemori	Leader		
Mr. T. Hosho	Land Survey	Mr. A. N. A. Baddoo	Assistant Chief Technical Officer

* Members from the 2nd to 5th surveys were the same.

Table 2-2 Survey sites

Interviews to fishermen		
2nd survey	Sep. - Nov. 2000	Apam, Mumford, Elmina, Sekondi
3rd survey	Jul. - Aug. 2001	Ahwiam, Tema
Length measurements		
2nd survey	Oct. - Nov. 2000	Tema, Apam, Mumford, Sekondi
3rd survey	Jul. - Aug. 2001	Ahwiam, Tema, Takoradi
4th survey	Nov. 2001	Tema, James Town(Accra), Salaga Market(Accra), Mumford
5th survey	Jul. - Aug. 2002	Tema
Price survey		
4th survey	Nov. 2001	James Town(Accra), Salaga Market(Accra)
5th survey	Jul. - Aug. 2002	Ahwiam, Tema Fish Market, Salaga Market(Accra)

Table 2-3 Land Survey Schedule

2nd Survey (Oct.-Nov. 2000)		3rd Survey (Jul.-Aug. 2001)	
Site	Date	Site	Date
Apam	25, October	Tema	27, July
Mumford	25, October	Ahwiam	30, July
Sekondi	25, October	Tema	31, July
Apam	26, October	Tema	1, August
Mumford	26, October	Ahwiam	3, August
Sekondi	26, October	Sekondi	8, August
Tema	1, November	Sekondi	9, August
		Apam	15, August
		Mumford	15, August
4th Survey (Nov. 2001)		5th Survey (Jul.-Aug. 2002)	
Site	Date	Site	Date
Apam	2, November	Tema Fish Market	24, July
Mumford	2, November	Salaga Market	25, July
James Town	3, November	Salaga Market	26, July
Salaga Market	4, November	Salaga Market	27, July
Ahwiam	5, November	Tema Fish Market	31, July
Ahwiam	8, November	Salaga Market	1, August
Mumford	12, November	Ahwiam	2, August
		Salaga Market	7, August

Table 2-4-1 (1) Results of the interview with fishermen

Recorder: HOSHO Date: 25, OCT, 2000 Port(Market): Apam

Name	Kow Ackon
Duration of engagement in fishery	15years
Family make-up	1 wife, 2 children
Main income source	Fishery
Annual income	(C15,000/month)
Union	No
Union dues	-
Ship owner	Kwesi Esako
Date of purchase of ship	5 years ago
Price of ship	C1.5million
Tonnage	(7 crates loadable)
Engine type	No
HP	-
Licensed fishing method	Hook and Line (Canoe)
Fishin method and target species by season	Any fish available
Information on the fish thrown away	Nothing thrown away
Number of crews	5
Wages	-
Daily cost of bunkers	-
Yearly cost of refit of ship	C500,000/year
Yearly cost of repair of fishing gears	C504,000/month (C7,000/set×24sets/pack×3packs/month)
Duration of depreciation	A ship could be used for 15 years
Selling comission	No
Daily sales	C600,000
Official subsidy	No

Recorder: HOSHO Date: 25, OCT, 2000 Port(Market): Apam

Name	Essandoh
Duration of engagement in fishery	20years
Family make-up	2 wives, 6 children
Main income source	Fishery
Annual income	(C20,000 - C30,000/day × 6days/week)
Union	No
Union dues	-
Ship owner	Himself
Date of purchase of ship	10 years ago
Price of ship	C400,000
Tonnage	(5-10 crates loadable)
Engine type	No
HP	-
Licensed fishing method	Hook and Line (Canoe)
Fishin method and target species by season	Any fish available
Information on the fish thrown away	Nothing thrown away
Number of crews	0-2
Wages	-
Daily cost of bunkers	-
Yearly cost of refit of ship	C300,000 - C400,000/year
Yearly cost of repair of fishing gears	-
Duration of depreciation	A ship could be used for 10 years
Selling comission	No
Daily sales	-
Official subsidy	No

Table 2-4-1 (2) Results of the interview with fishermen

		Recorder: HOSHO	Date: 25, OCT, 2000	Port(Market): Apam
Name		Kojo Nyeye		
Duration of engagement in fishery		More than 40years		
Family make-up		2 wives, 16 children		
Main income source		Fishery		
Annual income		(C100,000/month)		
Union		No		
Union dues		-		
Ship owner		Himself		
Date of purchase of ship		10 years ago		
Price of ship		C120,000		
Tonnage		-		
Engine type		Unknown		
HP		40		
Licensed fishing method		Hook and Line (Canoe)		
Fishin method and target species by season		Any fish available		
Information on the fish thrown away		Nothing thrown away		
Number of crews		16		
Wages		-		
Daily cost of bunkers		(15gallon/day)		
Yearly cost of refit of ship		C400,000/year		
Yearly cost of repair of fishing gears		(C200,000/month)		
Duration of depreciation		A canoe could be used for 10 years		
Selling comission		No		
Daily sales		-		
Official subsidy		No		

		Recorder: HOSHO	Date: 25, OCT, 2000	Port(Market): Mumford
Name		Kwesi Nyarko		
Duration of engagement in fishery		More than 30years		
Family make-up		2 wives, 6 children		
Main income source		Fishery		
Annual income		(C100,000/month)		
Union		No		
Union dues		-		
Ship owner		Kofi Okwanmu		
Date of purchase of ship		2 years ago		
Price of ship		C1million		
Tonnage		(8-12 crates loadable)		
Engine type		No		
HP		-		
Licensed fishing method		Bottom Set Net		
Fishin method and target species by season		Any fish available (especially Electric Rey)		
Information on the fish thrown away		Nothing thrown away		
Number of crews		4		
Wages		-		
Daily cost of bunkers		-		
Yearly cost of refit of ship		-		
Yearly cost of repair of fishing gears		-		
Duration of depreciation		-		
Selling comission		-		
Daily sales		-		
Official subsidy		No		

Table 2-4-1 (3) Results of the interview with fishermen

Recorder: HOSHO Date: 25, OCT, 2000 Port(Market): Mumford

Name	Kweku Nsabi
Duration of engagement in fishery	35years
Family make-up	1 wife, 5 children
Main income source	Fishery
Annual income	(C400,000/week)
Union	No
Union dues	-
Ship owner	Himself
Date of purchase of ship	8 years ago
Price of ship	C500,000
Tonnage	(9-10 crates loadable)
Engine type	No
HP	-
Licensed fishing method	Bottom Set Net
Fishin method and target species by season	Any fish available
Information on the fish thrown away	Nothing thrown away
Number of crews	4
Wages	C100,000/week
Daily cost of bunkers	-
Yearly cost of refit of ship	-
Yearly cost of repair of fishing gears	C500,000
Duration of depreciation	(C50,000/week)
Selling comission	-
Daily sales	-
Official subsidy	No

Recorder: HOSHO Date: 25, OCT, 2000 Port(Market): Mumford

Name	Kweku Sekyi
Duration of engagement in fishery	30years
Family make-up	1 wife, 7 children
Main income source	Fishery
Annual income	(C1.1million/month)
Union	No
Union dues	-
Ship owner	Himself
Date of purchase of ship	40 years ago
Price of ship	Equivalent to C600,000
Tonnage	(600 crates loadable)
Engine type	LIESTER
HP	35
Licensed fishing method	Trawling and Purse seine (Semi-industrial)
Fishin method and target species by season	Any fish available
Information on the fish thrown away	Nothing thrown away
Number of crews	15
Wages	C500,000/month
Daily cost of bunkers	C400,000/trip
Yearly cost of refit of ship	C4million
Yearly cost of repair of fishing gears	C1million for trawling, C4.5million for purse seine
Duration of depreciation	-
Selling comission	-
Daily sales	C300,000 - C400,000 for trawling, C2million for purse seine
Official subsidy	No

Table 2-4-1 (4) Results of the interview with fishermen

Recorder: HOSHO Date: 26, OCT, 2000 Port(Market): Elmina

Name	Solomon Jojo
Duration of engagement in fishery	6years
Family make-up	1 wife, 3 children
Main income source	Fishery and other job
Annual income	- (Trawling is unprofitable)
Union	Belong to an association (name is unknown)
Union dues	C25 is included in 1 gallon of the bunker
Ship owner	Himself
Date of purchase of ship	3 years ago
Price of ship	C15million
Tonnage	(200 crates loadable)
Engine type	DAF
HP	1500
Licensed fishing method	Trawling (Semi-industrial)
Fishin method and target species by season	At present, Shrimp, Prawn and Squid
Information on the fish thrown away	Nothing thrown away
Number of crews	8
Wages	Crews take 1/3 of the profit (1/3 for the ship, 1/3 for the owner)
Daily cost of bunkers	40gallons/trip (1gallon costs C5742. 1 trip takes 12 hours)
Yearly cost of refit of ship	C3million/year
Yearly cost of repair of fishing gears	C300,000/year
Duration of depreciation	-
Selling comission	-
Daily sales	-
Official subsidy	-

Recorder: HOSHO Date: 26, OCT, 2000 Port(Market): Elmina

Name	Solomon Jojo
Duration of engagement in fishery	6years
Family make-up	1 wife, 3 children
Main income source	Fishery and other job
Annual income	-
Union	No
Union dues	-
Ship owner	Himself
Date of purchase of ship	4 years ago
Price of ship	C4.8million
Tonnage	(30 crates loadable)
Engine type	TOHATSU
HP	40
Licensed fishing method	Hook and Line (Canoe)
Fishin method and target species by season	Any fish available
Information on the fish thrown away	Nothing thrown away
Number of crews	8
Wages	Crews take 8/14 of the profit (6/14 for the owner)
Daily cost of bunkers	-
Yearly cost of refit of ship	C200,000/year
Yearly cost of repair of fishing gears	C60,000/week
Duration of depreciation	-
Selling comission	-
Daily sales	-
Official subsidy	-

Table 2-4-1 (5) Results of the interview with fishermen

Recorder: HOSHO Date: 26, OCT, 2000 Port(Market): Elmina

Name	Kojo Bassaw
Duration of engagement in fishery	30years
Family make-up	2 wives, 15 children
Main income source	Fishery
Annual income	(C150,000/week)
Union	Belong to an association (name is unknown)
Union dues	C25 is included in 1 gallon of the bunker
Ship owner	Himself
Date of purchase of ship	1974
Price of ship	C20,000
Tonnage	(400 crates loadable)
Engine type	PARKINS
HP	-
Licensed fishing method	Trawling and Purse seine (Semi-Industrial)
Fishin method and target species by season	Any fish available
Information on the fish thrown away	Nothing thrown away
Number of crews	17
Wages	Crews take 2/5 of the profit
Daily cost of bunkers	(50gallon/trip)
Yearly cost of refit of ship	C10million/year
Yearly cost of repair of fishing gears	C3million/year
Duration of depreciation	-
Selling comission	-
Daily sales	-
Official subsidy	-

Recorder: HOSHO Date: 26, OCT, 2000 Port(Market): Elmina

Name	Emanuel Ayertey
Duration of engagement in fishery	14years
Family make-up	1 wife, 3 children
Main income source	Fishery
Annual income	C70,000/year
Union	Belong to an association (name is unknown)
Union dues	C25 is included in 1 gallon of the bunker
Ship owner	Pascal
Date of purchase of ship	3 years ago
Price of ship	-
Tonnage	(300 crates loadable)
Engine type	YAMAHA
HP	45
Licensed fishing method	Hook and Line (Canoe)
Fishin method and target species by season	Any fish available
Information on the fish thrown away	Nothing thrown away
Number of crews	8-9
Wages	-
Daily cost of bunkers	-
Yearly cost of refit of ship	-
Yearly cost of repair of fishing gears	-
Duration of depreciation	-
Selling comission	-
Daily sales	-
Official subsidy	-

Table 2-4-1 (6) Results of the interview with fishermen

Recorder: HOSHO Date: 26, OCT, 2000 Port(Market): Sekondi

Name	John Kweku
Duration of engagement in fishery	15years
Family make-up	1 wife, 2 children
Main income source	Fishery
Annual income	C1million/month
Union	-
Union dues	-
Ship owner	Himself
Date of purchase of ship	1 year ago
Price of ship	C2million
Tonnage	(180 crates loadable)
Engine type	YAMAHA
HP	40
Licensed fishing method	Hook and Line (Canoe)
Fishin method and target species by season	Any fish available
Information on the fish thrown away	Small fish are thrown away
Number of crews	10
Wages	Crew take 10/17 of the profit
Daily cost of bunkers	(17-19gallon)
Yearly cost of refit of ship	C4million
Yearly cost of repair of fishing gears	C300,000/trip (1 trip takes 4-7 days)
Duration of depreciation	-
Selling comission	-
Daily sales	-
Official subsidy	-

Recorder: HOSHO Date: 26, OCT, 2000 Port(Market): Sekondi

Name	Ekow Ninsin
Duration of engagement in fishery	45years
Family make-up	1 wife, 8 children
Main income source	Fishery
Annual income	(C200,000/trip 1 trip takes 1 day)
Union	Belong to an union (name is unknown)
Union dues	C400,000/year
Ship owner	Himself
Date of purchase of ship	1982
Price of ship	C600,000
Tonnage	(150 crates loadable)
Engine type	FORD
HP	-
Licensed fishing method	Trawling (Semi-industrial)
Fishin method and target species by season	Any fish available
Information on the fish thrown away	Nothing thrown away
Number of crews	12
Wages	Crew take 1/3 of the profit
Daily cost of bunkers	(45-50gallon)
Yearly cost of refit of ship	C3million/year
Yearly cost of repair of fishing gears	C1.5million/year
Duration of depreciation	-
Selling comission	-
Daily sales	-
Official subsidy	-

Table 2-4-1 (7) Results of the interview with fishermen

Recorder: HOSHO Date: 26, OCT, 2000 Port(Market): Sekondi

Name	Kwesi Kakra
Duration of engagement in fishery	57years
Family make-up	1 wife, 9 children
Main income source	Fishery
Annual income	(C500,000 - C600,000/month)
Union	Belong to an union (name is unknown)
Union dues	C400,000/year
Ship owner	Ashitey Gbonu
Date of purchase of ship	9 years ago
Price of ship	C250,000
Tonnage	(200 crates loadable)
Engine type	PARKINS
HP	85
Licensed fishing method	Trawling (Semi-industrial)
Fishin method and target species by season	Any fish available
Information on the fish thrown away	Nothing thrown away
Number of crews	6
Wages	Crew take 1/3 of the profit
Daily cost of bunkers	(30-40gallon/trip)
Yearly cost of refit of ship	C1.5million/year
Yearly cost of repair of fishing gears	C1.5million/year
Duration of depreciation	-
Selling comission	-
Daily sales	-
Official subsidy	-

Recorder: HOSHO Date: 26, OCT, 2000 Port(Market): Sekondi

Name	Kwame Entsa
Duration of engagement in fishery	38years
Family make-up	1 wife, 7 children
Main income source	Fishery
Annual income	(C1.5million/month)
Union	Belong to an union (name is unknown)
Union dues	C400,000/year
Ship owner	Ekow Abbam
Date of purchase of ship	22 years ago
Price of ship	C500,000
Tonnage	(40-50 crates loadable)
Engine type	FORD
HP	600
Licensed fishing method	Trawling and Purse seine (Semi-industrial)
Fishin method and target species by season	Any fish available
Information on the fish thrown away	Nothing thrown away
Number of crews	17
Wages	Crew take 2/3 of the profit
Daily cost of bunkers	45gallon
Yearly cost of refit of ship	C7million/year
Yearly cost of repair of fishing gears	C5million/year for trawling, C7million/year for purse seine
Duration of depreciation	-
Selling comission	-
Daily sales	-
Official subsidy	-

Table 2-4-1 (8) Results of the interview with fishermen

Recorder: HOSHO Date: 26, OCT, 2000 Port(Market): Sekondi

Name	Isaac Nortey Yeboah
Duration of engagement in fishery	35years
Family make-up	1 wife, 7 children
Main income source	Fishery
Annual income	(C2million/month when in a good catch)
Union	No
Union dues	-
Ship owner	Darko Wesebob
Date of purchase of ship	12 years ago
Price of ship	-
Tonnage	(210 crates loadable)
Engine type	YAMAHA
HP	40
Licensed fishing method	Hook and Line (Canoe)
Fishin method and target species by season	Any demersal fish available
Information on the fish thrown away	"Otoo" (a kind of Mackerel) is thrown away
Number of crews	10
Wages	Crew take 10/17 of the profit
Daily cost of bunkers	-
Yearly cost of refit of ship	-
Yearly cost of repair of fishing gears	-
Duration of depreciation	-
Selling comission	-
Daily sales	-
Official subsidy	-

Table 2-4-2 Results of the interview with fishing companies

Stock status					
No.	Species		status*		
	English name	Scientific name	Good	Moderate	Bad
1	Bigeye grunt	<i>Brachydeuterus auritus</i>		4	4
2	Cassava fish	<i>Pseudotolithus senegalensis</i>	1	1	4
3	Red pandora	<i>Pagellus bellottii</i>	1	1	3
4	White grouper	<i>Epinephelus aeneus</i>		1	5
5	Golden snapper	<i>Lutjanus fulgens</i>	2		4
6		<i>Lutjanus agennes</i>			4
7	Angola dentex	<i>Dentex angolensis</i>	1	1	3
8	Congo dentex	<i>Dentex congolensis</i>	1	1	3
9	Canary dentex	<i>Dentex canariensis</i>	1	1	3
10	West African goatfish	<i>Pseudupeneus prayensis</i>	1		4
11	African sicklefish	<i>Drepane africana</i>		1	5
12	Grey triggerfish	<i>Balistes capriscus</i>			5
13	Lesser African threadfin	<i>Galeoides decadactylus</i>		1	5
14	False scad	<i>Decapterus rhonchus</i>	1	1	3
15	African moonfish	<i>Selene dorsalis</i>		1	3
16	Atlantic bumper	<i>Chloroscombrus chrysurus</i>	1	2	3
17	Blue-spotted seabream	<i>Sparus caeruleosticrus</i>	2	1	3
18	Roncador	<i>Pomadasys incisus</i>	1	3	3
19	Spotted burro	<i>Pomadasys jubelini</i>	1	3	4
20	Cuttle fish	<i>Sepia officinalis</i>	1	1	2
21	Pink shrimp	<i>Penaeus notialis</i>	1		2

*:Number of replies

Causes of the decreasing stock

- General environmental deterioration
- Destruction of the fishing grounds
- El nino (2 years ago)
- Catch of the small (young) fish
- Over fishing (including illegal fishing)

Problems on the fish distribution

- Oversupply of fish caused by the import from mainly Russian vessels
- Shortage of cold storage

Problems on the fishing operation

- Expensive fuel and lubricant
- Shortage of the spare parts for vessels and fishing gears
- Shortage of the anchoring space in Tema harbour
- Slow processing time by authorities
- Expensive harbour fees

Practical measures for the optimal stock use

- Closing season for a month or two
- Mesh size regulation to protect the young fish
- Strengthening patrol against the illegal fishing
- Down sizing of the vessels
- Introduction of the Individual Quota
- Banning of the use of inappropriate fishing gears

Table 2-5-1 Wholesale fish prices (industrial fisheries)

Domestic	Target species	Unit price (C/kg)
* Red pandora	<i>Pagellus bellottii</i>	2,400
* Sea bream	<i>Sparus caeruleostictus</i>	2,000
Herring		1,200
Sardine		
Mackerel		800-1,200
Export		
* Cuttlefish(Mongo)	<i>Sepia officinalis</i>	2,400
Choco(Cuttlefish of lower grade)		1,600
* Denton	<i>Sparus caeruleostictus</i>	1,200
Lengua (Sole)		1,200
Pulpo (Octopus)		1,200
* West African goatfish	<i>Pseudupeneus prayensis</i>	1,200
* Grouper	<i>Epinephelus aeneus</i>	1,200
Sepiola(Squid)		1000-1200
* Cassava fish	<i>Pseudotolithus senegalensis</i>	800
Peluda		800
Mixed		800

*: Target species or the category including target species

Table 2-5-2 Fish prices at landing sites (artisanal fisheries)

Month	(Cedi/kg)												
	1	2	3	4	5	6	7	8	9	10	11	12	Average
<i>S. coeru/D. canariensis</i>	1,870	2,046	1,746	2,459	2,702	1,896	2,674	2,493	2,599	2,044	2,775	2,548	2,180
<i>P. bellottii</i>	1,565	1,768	530	1,680	1,512	1,598	1,531	1,798	1,855	1,269	2,033	2,040	1,650
<i>D. angolensis</i>	1,437	1,700	2,212	1,914	1,756	2,205	1,760	2,508	2,568	2,129	2,567	2,638	2,232
<i>D. congoensis</i>	1,140	1,280	1,323	1,333	1,585	1,212	1,238	2,187	2,142	1,942	1,987	1,934	1,811
<i>Pseudotolithus sp.</i>	770	630	744	929	1,037	1,397	2,363	1,177	959	1,141	848	707	926
<i>P. prayensis</i>	3,003	2,264	1,433	2,899	1,138			1,403	2,706	3,971	2,553	885	1,360
<i>B. auritus</i>	481	490	602	624	473	772	1,052	808	845	324	732	815	606
<i>P. incisus</i>	1,098	1,263	1,495	1,341	1,354	1,288	897	1,016	1,212	1,163	939	751	1,139
<i>P. jubelini</i>	569	1,606	1,075	820	794	831	853	802	1,080	1,162	1,001	1,000	812
<i>L. fulgens/L. agennes</i>	2,230	2,399	4,186	2,405	2,067	2,220	1,802	1,201	1,725	3,407	4,232	3,711	2,335
Serranidae(Groupers)	4,647	4,787	2,726	4,016	1,945	3,402	5,624	5,516	4,497	4,702	4,218	5,625	4,137
<i>D. africana</i>			2,686	1,061	1,017	1,062							1,887
<i>Caranx rhonchus(D. rhonchus)</i>	1,267	490	1,622	1,146	2,094	1,467	1,543	800	1,349	1,465	1,696	1,239	1,197
<i>C. chrysurus</i>	417	478	654	593	740	776	689	624	674	577	524	514	578
<i>S. dorsalis</i>	589	972	899	980	1,138	1,080	1,032	2,004	1,037	624	439	926	807
<i>Galeoides sp.</i>	872	750	1,092	1,397	1,022	1,040	1,075	1,070	1,470	1,183	1,201	945	1,062
<i>B. capriscus</i>					645								645
Penaeidae(Shrimps)	635	980	747	556	1,005	811	716	499	1,115	663	1,743	576	877
<i>S. officinalis</i>			2,205	3,049	1,998			4,001	4,998	703	3,992		3,164

* Values on this table are calculated from table 2-7-2(1) and table 2-7-3

Table 2-5-3 Retailed prices at markets

Species	Weight (kg)	Price (Cedi)	Number of Fish	Avg. W(kg)	Unit Price (C/kg)	U/S*	Market
<i>Decapterus rhonchus</i>	0.32	3,000	4	0.08	9,464	U	Tema
<i>Decapterus rhonchus</i>	1.47	30,000	6	0.24	20,478	U	Tema
<i>Decapterus rhonchus</i>	1.59	25,000	3	0.53	15,704	U	Tema
<i>Decapterus rhonchus</i>	0.77	10,000	1	0.77	12,987	U	Ahwiam
<i>Decapterus rhonchus</i>	1.05	12,000	2	0.53	11,429	U	Ahwiam
<i>Decapterus rhonchus</i>	1.55	20,000	2	0.78	12,903	U	Ahwiam
<i>Decapterus rhonchus</i>	0.95	10,000	2	0.48	10,526	U	Ahwiam
<i>S. dorsalis, C. chrysurus, B. auritus</i> and others combined	1.65	15,000	17	0.10	9,091	S	James Town
<i>Chloroscombrus chrysurus</i>	0.55	6,000	13	0.04	10,909	S	James Town
<i>C. chrysurus</i> and <i>P. senegalensis</i> combined	0.40	5,000	4	0.10	12,500	S	James Town
<i>Lutjanus fulgens</i>	0.40	8,000	1	0.40	20,000	U	Ahwiam
<i>Lutjanus atlanticus</i>	1.20	25,000	3	0.40	20,833	U	Salaga
<i>Galeoides decadactylus</i>	0.45	5,000	6	0.08	11,111	S	Salaga
<i>Galeoides decadactylus</i>	0.20	5,000	5	0.04	25,000	U	Salaga
<i>Galeoides decadactylus</i>	0.55	9,000	6	0.09	16,364	U	Salaga
<i>Pomadasys incisus</i>	0.15	1,000	1	0.15	6,667	U	Ahwiam
<i>Pomadasys incisus</i>	0.65	10,000	6	0.11	15,385	U	Salaga
<i>Pomadasys incisus</i>	0.85	10,000	9	0.09	11,765	U	Salaga
<i>Pomadasys jubelini</i>	0.68	15,000	4	0.17	22,059	U	Salaga
<i>Pseudolithus senegalensis</i>	0.90	10,000	10	0.09	11,111	S	James Town
<i>P. senegalensis</i> and Sparidae combined	0.65	7,000	6	0.11	10,769	S	James Town
<i>Pseudolithus senegalensis</i>	0.85	10,000	8	0.11	11,765	S	James Town
<i>P. senegalensis</i> and Sparidae combined	0.90	8,000	11	0.08	8,889	S	James Town
<i>Pseudolithus senegalensis</i>	0.70	9,000	3	0.23	12,857	S	Salaga
<i>Pseudolithus senegalensis</i>	1.90	40,000	10	0.19	21,064	U	Tema
<i>Pseudolithus senegalensis</i>	1.55	35,000	6	0.26	22,610	U	Salaga
<i>Pseudolithus senegalensis</i>	1.11	40,000	8	0.14	36,199	U	Salaga
<i>Pseudolithus senegalensis</i>	1.60	35,000	2	0.80	21,875	U	Salaga
Sparidae	3.30	85,000	3	1.10	25,758	S	James Town
Sparidae	0.85	10,000	8	0.11	11,765	S	James Town
Sparidae	0.95	10,000	12	0.08	10,526	S	James Town
Sparidae	0.70	12,000	5	0.14	17,143	S	Salaga
<i>D. canariensis</i>	3.17	80,000	11	0.29	25,260	U	Tema
<i>S. caeruleostictus</i>	1.36	50,000	5	0.27	36,684	U	Tema
<i>P. bellottii</i>	0.53	10,000	2	0.27	18,727	U	Tema
<i>D. canariensis</i>	5.62	140,000	11	0.51	24,915	U	Salaga
<i>S. caeruleostictus</i>	4.04	120,000	10	0.40	29,688	U	Salaga
Sparidae	0.35	5,000	6	0.06	14,286	U	Salaga
<i>Pseudupeneus prayensis</i>	0.75	6,000	6	0.13	8,000	S	Salaga
<i>Pseudupeneus prayensis</i>	1.07	20,000	10	0.11	18,727	U	Tema
<i>Pseudupeneus prayensis</i>	0.75	25,000	9	0.08	33,201	U	Salaga
<i>Pseudupeneus prayensis</i>	0.51	10,000	6	0.09	19,493	U	Salaga
<i>Pseudupeneus prayensis</i>	0.55	9,000	4	0.14	16,364	U	Salaga
<i>Penaeus notialis</i>	0.25	12,000	4	0.06	48,000	S	James Town
<i>Sepia officinalis</i>	0.65	15,000	1	0.65	23,077	U	Salaga
<i>Sepia officinalis</i>	0.78	20,000	2	0.39	25,641	U	Salaga
<i>Cynoglossus senegalensis</i>	2.56	120,000	10	0.26	46,967	U	Tema
<i>Cynoglossus senegalensis</i>	0.95	30,000	2	0.48	31,447	U	Salaga
<i>Cynoglossus senegalensis</i>	2.62	80,000	8	0.33	30,488	U	Salaga
<i>Cynoglossus senegalensis</i>	0.52	10,000	1	0.52	19,342	U	Salaga
<i>Scomber japonicus</i>	2.12	10,000	20	0.11	4,710	U	Tema

*U/S : Upwelling season or Stable season

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

Decapterus rhonchus

No.	FL(mm)	TL(mm)	Market	Period
1		275	Tema	Oct.-Nov./2000
2		234		
3		243		
4		237		
5		212		
6		232		
7		211		
8		190		
9		194		
10		278	Apam	Oct.-Nov./2000
11		332		
12	395		Ahwiam	Jul.-Aug./2001
13	390			
14	360			
15	345			
16	395			
17	335			
18	365			
19	385			
20	365			
21	410			
22	365			
23	380			
24	345			
25	410			
26	450			
27	372			
28	392			
29	405			
30	330			
31	365			
32	360			
33	375			
34	378			
35	360			
36	354			
37	340			
38	362			
39	352			
40	365			
41	354			
42	373			
43	330			
44	360			
45	362			
46	394			
47	348			
48	342			
49	340			
50	352			
51	368			
52	350			
53	358			
54	376			
55	390			
56	362			

No.	FL(mm)	TL(mm)	Market	Period
57	340			
58	358			
59	370			
60	358			
61	393			
62	190	209	Ahwiam	Oct.-Nov./2001
63	321	354		

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

Brachydeuterus auritus (1/2)

No.	FL(mm)	TL(mm)	Market	Period	No.	FL(mm)	TL(mm)	Market	Period		
1		141	Tema	Oct.-Nov./2000	57		85				
2		118			58		95				
3		151			59		109				
4		159			60		98				
5		164			61		97				
6		169			62		76				
7		183			63		89				
8		159			64		96				
9		184			65		91				
10		159			66		73				
11		163			67		98				
12		183			68		82				
13		189			69		79				
14		167			70		88				
15		150			71		92				
16		157			72		84				
17		167			73		88				
18		134	Mumford	Oct.-Nov./2000	74		92				
19		144			75		90				
20		102			76		92				
21		142			77		101				
22		139			78		96				
23		128			79		95				
24		93			80		86				
25		101			81		94				
26		97			82		94				
27		103			83		86				
28		93			84		95				
29		98			85		108				
30		85			86		93				
31		117			87		88				
32		138			88		108				
33		118			89		82				
34		98			90		88				
35		114			91		84				
36		97			92		81				
37		109			93		83				
38		151			94		86				
39		109			95		154				
40		124			96		149				
41		102			97		178			Sekondi	Oct.-Nov./2000
42		115			98		170				
43		95			99		195				
44		118			100		167				
45		95			101		167				
46		96			102		125				
47		129			103		144				
48		121			104		145				
49		113			105		149				
50		95			106		166				
51		113			107		110				
52		104		108		115					
53		115		109		135					
54		94		110		91					
55		112		111		109					
56		85		112		116					

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

Brachydeuterus auritus (2/2)

No.	FL(mm)	TL(mm)	Market	Period	No.	FL(mm)	TL(mm)	Market	Period
113		122			169	83	89		
114		99			170	114	122		
115		106			171	111	118		
116		104			172	122	128		
117		93			173	98	103		
118		136			174	130	137		
119	143	154	Ahwiam	Oct.-Nov./2001	175	96	103		
120	140	151			176	128	135		
121	145	157			177	151	162	Mumford	Oct.-Nov./2001
122	153	165			178	126	132		
123	139	149			179	130	134		
124	144	151			180	123	130		
125	135	141			181	128	134		
126	134	140			182	118	122		
127	129	136			183	133	143		
128	110	116			184	127	134		
129	105	110			185	137	149		
130	97	102			186	111	116		
131	107	113			187	149	156		
132	118	125			188	131	136		
133	95	101			189	134	138		
134	106	113			190	124	128		
135	145	153	Tema	Oct.-Nov./2001	191	138	146		
136	118	125			192	136	144		
137	102	110			193	102	110		
138	134	141			194	131	136		
139	122	131	Apam	Oct.-Nov./2001	195	141	149		
140	126	134							
141	103	111							
142	137	148							
143	123	132							
144	114	124							
145	118	124							
146	133	139							
147	101	111							
148	89	93							
149	121	129							
150	116	128							
151	109	115							
152	129	137							
153	130	138							
154	121	129							
155	94	99							
156	120	128							
157	95	100							
158	126	136							
159	116	125							
160	123	130							
161	122	130							
162	99	111							
163	115	121							
164	125	133							
165	133	147							
166	105	114							
167	94	101							
168	100	109							

Table 2-6-1 (3) Length of the evaluation target species at landing sites

Pomadasyus incisus (1/2)

No.	FL(mm)	TL(mm)	Market	Period	No.	FL(mm)	TL(mm)	Market	Period
1	256		Ahwiam	Jul.-Aug./2001	57	148	159		
2	227				58	134	145		
3	225				59	110	118		
4	245				60	163	176		
5	245				61	160	179		
6	139	148	Tema	Jul.-Aug./2001	62	165	182		
7	162	173			63	171	188		
8	189	202			64	184	203		
9	164	176			65	118	130		
10	165	178			66	132	146		
11	141	150			67	154	168		
12	195	206			68	161	178		
13	231	245			69	161	172		
14	112	122	Ahwiam	Oct.-Nov./2001	70	113	125		
15	120	126			71	175	190		
16	110	117			72	159	176		
17	122	130			73	159	179		
18	152	164			74	185	202		
19	111	120			75	133	143		
20	121	128			76	151	166		
21	153	167	Tema	Oct.-Nov./2001	77	176	200		
22	163	178			78	162	180		
23	166	179			79	129	138		
24	171	183			80	105	119		
25	162	172			81	103	114		
26	151	162			82		111		
27	148	156			83	103	116		
28	115	125	Apam	Oct.-Nov./2001	84	116	129		
29	104	108			85	106	115		
30	93	96			86	101	111		
31	100	107			87	101	111		
32	110	117			88	101	113		
33	111	118			89	97	105		
34	113	123			90	105	118		
35	99	105			91	102	113		
36	107	114			92	105	118		
37	100	106			93	105	119		
38	107	112			94	113	126		
39	125	131			95	111	124		
40	89	96			96	101	111		
41	103	109			97	102	116		
42	104	110			98	113	126		
43	115	122			99	99	108		
44	101	110			100	111	121		
45	112	118			101	116	129		
46	111	117			102	105	122		
47	117	125			103	99	108		
48	114	120			104	127	137		
49	105	110			105	124	137		
50	117	126	Tema	Nov.-Dec./2001	106	103	114		
51	118	128			107	127	139		
52	152	165			108	128	139		
53	120	130			109	130	141		
54	133	141			110	123	136		
55	128	137			111	132	147		
56	125	134			112	130	144		

Table 2-6-1 (3) Length of the evaluation target species at landing sites

Pomadasys incisus (2/2)

No.	FL(mm)	TL(mm)	Market	Period
113	138	158		
114	124	137		
115	130	145		
116	143	157		
117	124	141		
118	120	134		
119	136	149		
120	132	146		
121	149	167		
122	126	141		
123	125	138		
124	115	126		
125	127	143		
126	136	154		
127	138	159		
128	127	137		
129	137	147		
130	123	136		
131	129	143		
132	136	151		
133	124	137		
134	138	156		
135	126	138		
136	111	123		
137	124	136		
138	125	136		
139	160	174		
140	122	136		
141	125	142		
142	122	135		
143	133	146		
144	136	150		
145	127	137		
146	127	139		
147	120	129		
148	111	126		
149	167	185		
150	158	170		
151	165	186		
152	138	154		
153	187	204		
154	191	205		
155	187	204		
156	170	186		
157	168	186		
158	190			
159	161	185		
160	160	178		
161	168	181		
162	160	176		
163	197	206		
164	159	178		
165	190	214		

Table 2-6-1 (4) Length of the evaluation target species at landing sites

Dentex canariensis

No.	FL(mm)	TL(mm)	Market	Period
1		237	Apam	Oct.-Nov./2000
2		200		
3		207		
4		241		
5		222		
6	450		Ahwiam	Jul.-Aug./2001
7	330			
8	280			
9	335			
10	243			
11	266			
12	300			
13	265			
14	365			
15	310			
16	250			
17	345			
18	330			
19	177	190	Tema	Jul.-Aug./2001
20	161	178		
21	162	173		
22	187	204		
23	167	181		
24	149	161		
25	158	176		
26	317	357	Sekondi	Jul.-Aug./2001
27	349	386		
28	340	375		
29	325	368		
30	305	347		
31	413	455		
32	391	429		
33	204	220	Ahwiam	Oct.-Nov./2001
34	353	399	James Town	Oct.-Nov./2001
35	427	469		
36	118	127	Apam	Oct.-Nov./2001
37	108	113		
38	104	111		
39	109	115		
40	115	127		
41	96	104		
42	125	134		
43	87	95		
44	102	111		
45	128	139		
46	89	97		
47	90	94		
48	77	83		
49	94	100		
50	103	111		
51	114	121		
52	108	115		
53	96	101		
54	128	138		
55	98	106		
56	126	135		

No.	FL(mm)	TL(mm)	Market	Period
57	108	113		
58	99	107		
59	98	105		

Table 2-6-1 (5) Length of the evaluation target species at landing sites

Sparus caeruleostictus

No.	FL(mm)	TL(mm)	Market	Period
1		257	Apam	Oct.-Nov./2000
2		261		
3		345		
4		155		
5		242		
6	163	176	Ahwiam	Jul.-Aug./2001
7	139	154		
8	202	223		
9	152	168		
10	157	175		
11	186	207		
12	176	189		
13	179	197		
14	195	215		
15	232	259		
16	209	224		
17	154	167		
18	219	239		
19	191	208		
20	285			
21	230			
22	272			
23	265			
24	320			
25	235			
26	220			
27	369	401	Sekondi	Jul.-Aug./2001
28	280	312		
29	205	218		
30	478	543		
31	351	401	James Town	Oct.-Nov./2001
32	176	198		
33	167	188		
34	192	214		
35	165	189		
36	154	169		
37	178	202		
38	157	176		
39	169	190		
40	132	156		
41	146	165		
42	148	169		
43	150	165		
44	175	204		
45	140	154		
46	142	163		
47	137	156		
48	129	145		
49	131	146		
50	128	147		
51	133	153		
52	157	185		
53	151	175		
54	116	128		
55	166	189		
56	168	192		

No.	FL(mm)	TL(mm)	Market	Period
57	150	170		
58	182	205	Salaga Market	Oct.-Nov./2001
59	169	188		
60	189	210		
61	193	225		
62	171	193		
63	115	125	Apam	Oct.-Nov./2001
64	106	114		
65	102	109		
66	97	109		
67	107	112		
68	75	86		
69	85	94		
70	96	103		
71	98	107		
72	100	111		
73	106	116		
74	97	107		
75	100	110		
76	82	91		
77	103	112		
78	111	124		
79	105	113		
80	83	94		
81	113	122		
82	102	115		
83	98	106		
84	112	119		
85	103	114		
86	110	121		
87	120	133	Mumford	Oct.-Nov./2001
88	193	209		
89	175	190		

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

Pagellus bellottii

No.	FL(mm)	TL(mm)	Market	Period	No.	FL(mm)	TL(mm)	Market	Period
1	210		Ahwiam	Jul.-Aug./2001	57	165	193		
2	195				58	175	201		
3	195				59	163	182		
4	207				60	150	167		
5	139	155	Tema	Jul.-Aug./2001	61	152	175		
6	137	155			62	152	176		
7	147	160			63	155	177		
8	152	169			64	166	182		
9	156	172			65	150	170		
10	144	155			66	142	158		
11	150	165			67	142	162		
12	151	161			68	142	157		
13	148	163			69	146	163		
14	187	205	Sekondi	Jul.-Aug./2001	70	139	155		
15	180	199			71	151	168		
16	128	139	Ahwiam	Oct.-Nov./2001	72	148	168		
17	194	212			73	153	170		
18	132	141			74	143	162		
19	149	160			75	119	136		
20	218	234			76	120	132		
21	227	246			77	137	153		
22	154	176	James Town	Oct.-Nov./2001	78	132	146		
23	84	88	Apam	Oct.-Nov./2001	79	146	161		
24	85	91			80	118	134		
25	79	86			81	140	159		
26	105	113			82	134	155		
27	72	78			83	138	157		
28	101	106			84	144	160		
29	89	95			85	139	153		
30	69	73			86	148	165		
31	82	87			87	129	148		
32	89	95			88	155	177		
33	108	117			89	180	201		
34	94	98			90	156	170		
35	90	97			91	161	182		
36	97	104			92	165	181		
37	134	141	Tema	Nov.-Dec./2001	93	164	181		
38	146	161			94	163	182		
39	147	160			95	161	180		
40	146	161			96	148	165		
41	144	151			97	145	164		
42	154	166			98	144	164		
43	149	163			99	168	190		
44	151	163			100	139	161		
45	145	160			101	165	180		
46	157	168			102	148	170		
47	132	145							
48	126	138							
49	155	173							
50	163	184							
51	147	165							
52	162	182							
53	182	204							
54	161	180							
55	164	190							
56	152	175							

Table 2-6-1 (7) Length of the evaluation target species at landing sites

Galeoides decadactylus (1/2)

No.	FL(mm)	TL(mm)	Market	Period	No.	FL(mm)	TL(mm)	Market	Period
1		152	Sekondi	Oct.-Nov./2000	57	168	192		
2		158			58	160	176		
3	295		Ahwiam	Jul.-Aug./2001	59	161	178		
4	275				60	180	203		
5	285				61	167	190		
6	310				62	158	175		
7	295				63	150	168		
8	285				64	127	137		
9	270				65	160	175		
10	310				66	150	174		
11	290				67	163	185		
12	285				68	161	188		
13	270				69	126	142		
14	260				70	152	178		
15	305				71	147	168		
16	233				72	176	195		
17	234				73	175	194		
18	205				74	167	190		
19	210				75	202	229		
20	238				76	155	185		
21	245				77	200	229		
22	274				78	196	218		
23	165				79	163	186		
24	258	302	Sekondi	Jul.-Aug./2001	80	163	181		
25	291	334			81	149	174		
26	259	309			82	154	177		
27	254	277			83	158	183		
28	292	336			84	161	183		
29	280	319			85	189	213		
30	330	379			86	154	175		
31	333	394			87	153	176		
32	128	153			88	167	190		
33	112	130			89	158	181		
34	121	135			90	157	184		
35	97	119			91	144	165		
36	131	152			92	129	145		
37	122	152			93	103	118		
38	104	126			94	165	186		
39	131	150			95	220	256		
40	125	148			96	143	166		
41	136	156			97	125	143		
42	132	153			98	123	143		
43	128	142			99	111	129		
44	112	133			100	116	133		
45	137	161			101	115	125	Apam	Oct.-Nov./2001
46	124	158			102	122	134		
47	109	123			103	113	120		
48	124	143			104	108	117		
49	120	147			105	105	118		
50	129	151			106	111	120		
51	102	117			107	101	113		
52	165	192	Ahwiam	Oct.-Nov./2001	108	96	109		
53	164	186			109	110	125		
54	164	185			110	104	110		
55	186	215			111	112	123		
56	155	178			112	111	120		

Table 2-6-1 (7) Length of the evaluation target species at landing sites

Galeoides decadactylus (2/2)

No.	FL(mm)	TL(mm)	Market	Period	No.	FL(mm)	TL(mm)	Market	Period
113	118	132			169	170	192		
114	104	115			170	155	185		
115	141	156			171	147	172		
116	117	135			172	177	200		
117	122	137			173	157	179		
118	121	137			174	185	219		
119	125	138			175	188	225		
120	126	139			176	176	207		
121	99	108			177	140	164		
122	96	106			178	169			
123	214	232			179	130	148		
124	113	123			180	135	159		
125	197	228			181	139	159		
126	195	224			182	123	142		
127	93	103	Mumford	Oct.-Nov./2001	183	125	142		
128	92	103			184	122	144		
129	97	109			185	266	308		
130	117	133			186	249	299		
131	100	110			187	244	286		
132	121	136			188	219			
133	111	126							
134	119	129							
135	98	108							
136	131	144							
137	122	137							
138	151	172							
139	138	154							
140	145	163							
141	133	149							
142	153	178							
143	130	150							
144	139	151							
145	128	144							
146	166	183							
147	134	158							
148	141	158							
149	160	178							
150	124	143							
151	128	146							
152	158	177							
153	131	147							
154	144	157							
155	144	156							
156	255	304	Tema	Nov.-Dec./2001					
157	260	311							
158	211	247							
159	226	256							
160	226	263							
161	266	298							
162	144	154							
163	130	149							
164	169	200							
165	144	162							
166	126	148							
167	137	156							
168	158	177							

Table 2-6-1 (8) Length of the evaluation target species at landing sites

Pseudotolithus senegalensis (1/2)

No.	TL(mm)	Market	Period	No.	TL(mm)	Market	Period
1	464	Tema	Oct.-Nov./2000	57	214		
2	203	Mumford	Oct.-Nov./2000	58	278	Salaga Market	Oct.-Nov./2001
3	179			59	317		
4	171			60	284		
5	187	Sekondi	Oct.-Nov./2000	61	1060	Mumford	Oct.-Nov./2001
6	149			62	398		
7	167			63	414		
8	176			64	182		
9	131			65	190		
10	196			66	205		
11	140			67	221		
12	153			68	205		
13	153			69	212		
14	123			70	346		
15	160			71	448		
16	313			72	340		
17	408	Sekondi	Jul.-Aug./2001	73	373		
18	185			74	375		
19	197			75	430		
20	193			76	364		
21	235			77	272		
22	231			78	291		
23	222			79	275		
24	200			80	284		
25	219	Ahwiam	Oct.-Nov./2001	81	279		
26	284			82	283		
27	304			83	283		
28	206	James Town	Oct.-Nov./2001	84	180		
29	220			85	166		
30	212			86	172		
31	246			87	157		
32	240			88	176		
33	207			89	199		
34	214			90	207		
35	215			91	183		
36	211			92	164		
37	231			93	199		
38	257			94	169		
39	223			95	182		
40	207			96	192		
41	253			97	209		
42	230			98	181		
43	206			99	165		
44	227			100	190		
45	241			101	187		
46	229			102	154		
47	225			103	173		
48	240			104	175		
49	241			105	176		
50	248			106	337	Tema	Nov.-Dec./2001
51	206			107	330		
52	200			108	299		
53	199			109	294		
54	205			110	171		
55	215			111	162		
56	203			112	182		

Table 2-6-1 (8) Length of the evaluation target species at landing sites

Pseudolithus senegalensis (2/2)

No.	TL(mm)	Market	Period
113	160		
114	356		
115	351		
116	254		
117	373		
118	344		
119	265		
120	381		
121	292		
122	231		
123	350		
124	220		
125	214		

Table 2-6-1 (9) Length of the evaluation target species at landing sites

Pseudupeneus prayensis

No.	FL(mm)	TL(mm)	Market	Period
1	114		Mumford	Oct.-Nov./2000
2	103			
3	111			
4	191	176	Ahwiam	Jul.-Aug./2001
5	192	177		
6	196	178		
7		190		
8		160		
9		188		
10		190		
11		160		
12	190	182	Tema	Jul.-Aug./2001
13	197	187		
14	214	201		
15	195	183		
16	251	236		
17	221	208		
18	194	180		
19	139	148	Ahwiam	Oct.-Nov./2001
20	132	144		
21	235	257	Salaga Market	Oct.-Nov./2001
22	202	223		
23	173	186		
24	156	175		
25	152	168		
26	196	223		
27	124	131	Apam	Oct.-Nov./2001
28	116	128		
29	117	128		
30	121	132		
31	119	129		
32	115	121		
33	106	116		
34	129	139		
35	113	120		
36	128	137		
37	135	144		
38	117	126		
39	124	134		
40	102	111		
41	130	139		
42	129	134		
43	132	138		
44	129	139		
45	126	133		
46	117	124		
47	134	145		
48	114	125		
49	125	137		
50	135	142		
51	100	104		
52	132	142		
53	117	121		
54	111	119		
55	123	131		
56	123	133		

Table 2-6-1 (10) Length of the evaluation target species at landing sites

Sepia officinalis

No.	ML(mm)	Market	Period
1	181	Apam	Oct.·Nov./2000
2	185		
3	172		
4	194		
5	203		
6	240	Tema	Jul.·Aug./2001
7	53	Ahwiam	Oct.·Nov./2001
8	43		
9	54		
10	43		
11	51		
12	48		
13	44		
14	38		
15	196	Apam	Oct.·Nov./2001
16	216		
17	213		
18	282		
19	291		
20	247		
21	232		
22	243		
23	286		
24	244		
25	226		
26	237		
27	235	Mumford	Oct.·Nov./2001
28	204		
29	206	Tema	Nov.·Dec./2001
30	174		