

Chapter 11

Fisheries Statistics

Summary of Fisheries Statistics

This chapter presents fisheries statistics on the total catch of fish and other marine products categorized by species, by state and essential sea foods.

The total Catch of Fish and Other Marine Products by Species Category for 2003 shows that the annual catch in terms of weight increased from 461,687 pounds in 2002 to 468,189 pounds in 2003. Assorted reef fish contributed the largest share of 259,196 pounds followed by sturgeon and unicorn fish with 95,733 pounds.

The total catch of Fish and Other Marine Products for 2003 was 468,189 pounds. Koror State ranked the highest with a percentage share of 65 percent followed by Airai State with 10 percent.

Essential Seafoods in 2003 shows the total catch of reef fish, in terms of value, declined from \$567,183 in 2002 to \$550,061 in 2003.

Figure 11.1 Total Catch of Fish & Other Marine Products: 1999-2003

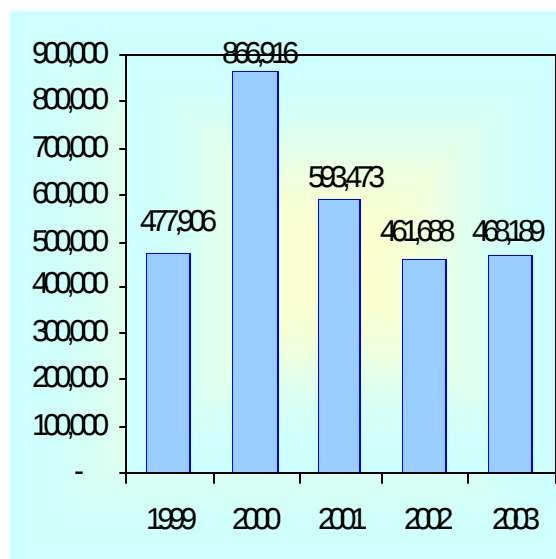


Figure 11.2 Total Catch of Fish & Other Marine Products by Category: 1999-2003

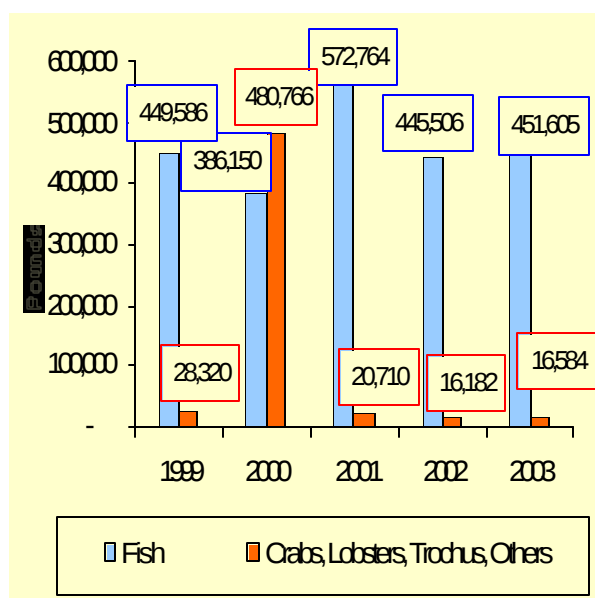


Table 11.1 Total Catch of Fish and Other Marine Products by Species Category: 1999 to 2003 (Pounds)

Fish & Seafood Categories	Year				
	1999	2000	2001	2002	2003
Total	477,906	866,916	593,473	461,687	468,189
Assorted Reef Fish	308,493	286,483	294,761	253,173	259,196
Billfish	39	-	437	797	-
Crabs	17,892	14,614	17,347	12,163	13,768
Dolphinfish	251	-	487	144	793
Emperors	17,591	9,204	20,586	7,339	7,346
Goatfish	1,150	1,456	2,086	945	496
Groupers	9,033	2,424	23,835	11,601	17,265
Jack, Scad & Trevally	7,782	9,440	6,548	2,552	1,725
Lobsters	1,063	1,438	1,923	2,333	2,014
Milkfish & Mullet	1,796	2,288	1,503	943	1,399
Mojarras	335	996	57	227	194
Parrot fish	27,861	12,098	57,516	26,061	20,537
Rabbit fish	17,571	10,433	25,613	11,839	9,681
Rudder fish	1,637	1,298	2,973	2,217	2,053
Snappers	12,881	5,464	7,069	9,684	4,314
Surgeon & Unicorn	29,699	23,428	101,613	81,035	95,733
Trochus Niloticus	-	464,077	-	-	-
Tuna & Mackerel	9,948	10,369	13,366	13,072	29,533
Wrasses	3,520	10,769	14,315	23,878	1,340
Others	9,365	638	1,440	1,687	802

Source: Division of Marine Resources, Republic of Palau

Notes: (1) Close season for trochus production in 1999 and 2001.

(2) Barracuda, herrings, sardines, and sprats are included in Others.

.... Data not available

Table 11.2 Total Catch of Fish and Other Marine Products by State: 1999 to 2003 (Pounds)

States	Year				
	1999	2000	2001	2002	2003
Total	477,906	866,916	593,473	461,688	468,189
Aimeliik	5,270	3,282	12,707	9,521	4,589
Airai	5,040	4,672	12,728	13,547	46,958
Angaur	363	1,802	1,378	4,596	119
Kayangel	5,090	43,948	3,784	3,891	360
Koror	196,719	435,807	310,240	270,785	304,203
Melekeok	584	10,839	6,475	11,616	18,251
Ngatpang	18,604	21,455	23,479	23,409	10,885
Ngiwal	75	4,410	5,497	3,601	1,789
Ngerchelongs*	17,302	43,485	22,595	38,502	6,278
Ngaraard	4,257	21,945	11,111	7,291	3,785
Ngeremlengui	180,641	178,535	100,303	28,924	27,215
Ngchesar	708	3,446	15,323	4,912	1,419
Ngardmau	13,250	17,431	12,748	14,969	14,281
Peleliu	29,681	74,236	54,128	24,502	22,374
Unknown	322	1,626	980	1,622	5,683

Source: Division of Marine Resources, Ministry of Resources and Development, Palau

Note: (*) Includes Ollei Hamlet.

Table 11.3 Essential Seafoods of Palau by State: 1999

States	Reef Fish		Tuna & Mackerel		Crabs		Lobsters	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Total	440,681	\$ 508,815	16,735	\$ 15,696	17,892	\$ 65,892	1,063	\$ 4,393
Aimeliik	5,225	6,305	-	-	39	150	7	42
Airai	1,121	1,364	-	-	3,919	14,770	-	-
Angaur	364	473	-	-	-	-	-	-
Kayangel	5,090	5,209	-	-	-	-	-	-
Koror	185,579	241,652	7,370	7,335	2,386	8,959	423	2,020
Melekeok	584	759	-	-	-	-	-	-
Ngatpang	15,936	16,297	477	387	2,187	9,014	4	12
Ngiwal	75	98	-	-	-	-	-	-
Ngerchelong	16,735	19,960	-	-	165	648	28	144
Ngaraard	4,058	4,985	-	-	112	479	87	404
Ngeremlengui	163,376	165,452	7,846	7,141	8,815	30,811	406	1,250
Ngchesar	618	803	-	-	90	336	-	-
Ngardmau	13,133	17,063	-	-	8	36	109	521
Peleliu	28,467	27,911	1,042	834	172	689	-	-
Unknown	322	483	-	-	-	-	-	-

Source: Division of Marine Resources, Ministry of Resources and Development, Republic of Palau

Table 11.3a Essential Seafoods of Palau by State: 2000

States	Reef Fish		Tuna & Mackerel		Crabs		Lobsters		Trochus Niloticus	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Total	375,990	\$ 450,197	10,742	\$ 9,498	14,614	\$ 54,802	1,438	\$ 5,310	464,077	\$ 466,571
Aimeliik	2,636	3,401	-	-	137	481	-	-	509	509
Airai	730	949	171	167	3,031	12,003	-	-	740	740
Angaur	235	235	-	-	18	61	-	-	1,549	1,549
Kayangel	2,187	2,368	-	-	-	-	-	-	41,761	41,761
Koror	200,209	263,851	2,302	2,380	3,455	12,411	491	1,882	229,351	231,210
Melekeok	57	74	-	-	-	-	-	-	10,782	10,782
Ngatpang	16,931	16,605	-	-	1,005	3,948	30	94	3,489	3,489
Ngiwal	819	1,081	-	-	-	-	-	-	3,591	3,591
Ngerchelong	6,941	7,604	-	-	248	990	4	16	36,269	36,269
Ngaraard	9,798	12,381	17	22	13	43	8	26	12,109	12,148
Ngeremlengui	92,309	92,331	6,556	5,308	6,406	23,621	888	3,207	72,344	72,819
Ngchesar	2,254	2,876	226	233	24	96	-	-	943	943
Ngardmau	12,858	16,772	-	-	215	850	18	85	4,341	4,402
Peleliu	26,443	27,543	1,471	1,388	23	92	-	-	46,299	46,360
Unknown	1,585	2,126	-	-	41	205	-	-	-	-

Source: Division of Marine Resources, Ministry of Resources and Development, Republic of Palau

Note: Trochus Niloticus comprises shells and meat

Table 11.3b Essential Seafoods of Palau by State: 2001

States	Reef Fish		Tuna & Mackerel		Crabs		Lobsters	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Total	317,183	\$ 383,881	13,574	\$ 13,724	17,347	\$ 66,642	1,924	\$ 6,646
Aimeliik	2,856	3,560	-	-	197	763	-	-
Airai	2,431	3,010	224	246	3,221	12,946	2	8
Angaur	1,275	1,477	-	-	77	308	27	100
Kayangel	1,162	1,335	498	548	-	-	37	134
Koror	179,250	221,453	6,876	6,972	4,036	15,480	853	3,052
Melekeok	5,430	6,302	54	59	-	-	32	120
Ngatpang	12,206	13,046	190	162	255	982	26	81
Ngiwal	3,974	5,192	-	-	378	1,432	48	168
Ngerchelong	16,479	18,105	502	542	1,091	4,349	13	50
Ngaraard	3,637	4,472	-	-	90	358	121	449
Ngeremlengui	32,374	33,983	2,849	2,957	7,195	26,833	613	1,868
Ngchesar	9,271	11,731	1,139	1,215	369	1,434	-	-
Ngardmau	8,646	11,207	-	-	128	504	56	233
Peleliu	37,247	48,043	1,242	1,024	283	1,130	98	386
Unknown	949	967	-	-	31	124	-	-

Source: Division of Marine Resources, Ministry of Resources and Development, Republic of Palau

Note: Close season for Trochus production in 2001.

Table 11.3c Essential Seafoods of Palau by State: 2002

States	Reef Fish		Tuna & Mackerel		Crabs		Lobsters	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Total	434,121	\$ 567,183	13,072	\$ 10,842	12,163	\$ 50,770	2,333	\$ 8,498
Aimeliik	9,301	12,245	97	49	47	186	77	296
Airai	9,797	12,594	425	375	3,290	14,365	35	124
Angaur	4,449	5,657	133	133	-	-	14	45
Kayangel	2,876	3,467	1,015	1,063	-	-	-	-
Koror	259,374	346,813	7,347	5,682	2,221	8,892	1,844	6,609
Melekeok	11,594	12,693	-	-	22	88	-	-
Ngatpang	22,139	27,004	483	531	788	3,161	-	-
Ngiwal	2,427	3,068	142	107	1,010	4,302	23	90
Ngerchelong	37,013	49,517	615	557	850	3,390	25	98
Ngaraard	6,881	9,277	-	-	391	1,574	19	74
Ngeremlengui	25,129	32,103	948	709	2,703	11,434	145	573
Ngchesar	4,360	5,514	161	139	340	1,358	52	208
Ngardmau	14,581	20,479	-	-	297	1,195	92	346
Peleliu	22,784	24,753	1,604	1,440	114	456	-	-
Unknown	1,418	1,999	102	58	93	371	9	36

Source: Division of Marine Resources, Ministry of Resources and Development, Republic of Palau

Note: Close season for Trochus production in 2001.

Table 11.3d Essential Seafoods of Palau by State: 2003

States	Reef Fish		Tuna & Mackerel		Crabs		Lobsters	
	Pounds	Value	Pounds	Value	Pounds	Value	Pounds	Value
Total	415,447	\$ 550,061	29,246	\$ 32,100	7,977	\$ 38,591	1,904	\$ 6,899
Aimeliik	4,070	5,170	156	203	164	956	-	-
Airai	43,416	58,768	747	971	1,596	7,928	436	1,679
Angaur	119	119	-	-	-	-	-	-
Kayangel	261	287	99	109	-	-	-	-
Koror	275,477	375,047	18,671	20,791	2,129	10,594	1,185	4,208
Melekeok	16,151	20,013	2,060	2,415	-	-	41	156
Ngatpang	10,403	13,423	55	72	401	1,817	-	-
Ngiwal	1,331	1,731	-	-	456	2,379	2	8
Ngerchelong	6,227	7,889	25	33	26	132	-	-
Ngaraard	2,993	4,169	-	-	726	3,597	20	80
Ngeremlengui	22,329	24,401	3,237	3,896	1,362	5,663	105	324
Ngchesar	922	1,228	126	102	371	1,926	-	-
Ngardmau	13,427	18,253	-	-	724	3,514	96	369
Peleliu	18,231	19,471	4,070	3,510	21	84	20	76
Unknown	92	92	-	-	-	-	-	-

Source: Division of Marine Resources, Ministry of Resources and Development, Republic of Palau

Note: Close season for Trochus production in 2001.

Table 1. Sample population by Age and Sex and Number Fishers in Household, Palau 2003

5-year Age groups and Sex	Total				With Fishers				Without Fishers			
	Total	Koror	Babel-doub	Other State	Total	Koror	Babel-doub	Other State	Total	Koror	Babel-doub	Other State
Total	6,369	2,373	3,195	801	3,067	1,107	1,621	339	3,302	1,266	1,574	462
Less than 5 years	457	160	225	72	238	78	133	27	219	82	92	45
5 to 9 years	660	196	374	90	334	90	202	42	326	106	172	48
10 to 14 years	668	219	361	88	336	106	188	42	332	113	173	46
15 to 19 years	488	227	237	24	253	119	117	17	235	108	120	7
20 to 24 years	355	207	122	26	165	88	65	12	190	119	57	14
25 to 29 years	453	210	178	65	227	104	95	28	226	106	83	37
30 to 34 years	480	193	225	62	249	108	113	28	231	85	112	34
35 to 39 years	495	173	270	52	256	88	149	19	239	85	121	33
40 to 44 years	471	154	259	58	241	68	148	25	230	86	111	33
45 to 49 years	403	141	219	43	226	71	128	27	177	70	91	16
50 to 54 years	368	132	186	50	182	64	93	25	186	68	93	25
55 to 59 years	222	72	114	36	104	29	58	17	118	43	56	19
60 to 64 years	205	80	93	32	78	32	38	8	127	48	55	24
65 to 69 years	151	55	77	19	54	22	26	6	97	33	51	13
70 to 74 years	127	39	69	19	37	18	14	5	90	21	55	14
75 years and over	366	115	186	65	87	22	54	11	279	93	132	54
Median	31.1	29.2	32.2	32.9	29.6	28.5	30.5	30.3	32.7	30	34	35
Males	3,271	1,211	1,669	391	1,621	603	846	172	1,650	608	823	219
Less than 5 years	225	79	117	29	110	34	66	10	115	45	51	19
5 to 9 years	347	109	198	40	178	50	107	21	169	59	91	19
10 to 14 years	353	115	199	39	177	55	104	18	176	60	95	21
15 to 19 years	268	131	122	15	150	75	62	13	118	56	60	2
20 to 24 years	191	110	66	15	95	55	34	6	96	55	32	9
25 to 29 years	234	100	105	29	124	55	54	15	110	45	51	14
30 to 34 years	252	104	114	34	124	55	54	15	128	49	60	19
35 to 39 years	249	91	131	27	130	49	71	10	119	42	60	17
40 to 44 years	252	71	148	33	135	40	80	15	117	31	68	18
45 to 49 years	215	63	132	20	126	33	79	14	89	30	53	6
50 to 54 years	187	65	95	27	96	31	53	12	91	34	42	15
55 to 59 years	121	43	57	21	64	22	32	10	57	21	25	11
60 to 64 years	99	40	40	19	40	19	18	3	59	21	22	16
65 to 69 years	71	25	37	9	26	11	12	3	45	14	25	6
70 to 74 years	59	22	29	8	20	12	4	4	39	10	25	4
75 years and over	148	43	79	26	26	7	16	3	122	36	63	23
Median	30.3	28.1	31.2	34.2	29.1	28	29.6	31	31.6	28.2	32.6	36.9
Females	3,098	1,162	1,526	410	1,446	504	775	167	1,652	658	751	243
Less than 5 years	232	81	108	43	128	44	67	17	104	37	41	26
5 to 9 years	313	87	176	50	156	40	95	21	157	47	81	29
10 to 14 years	315	104	162	49	159	51	84	24	156	53	78	25
15 to 19 years	220	96	115	9	103	44	55	4	117	52	60	5
20 to 24 years	164	97	56	11	70	33	31	6	94	64	25	5
25 to 29 years	219	110	73	36	103	49	41	13	116	61	32	23
30 to 34 years	228	89	111	28	125	53	59	13	103	36	52	15
35 to 39 years	246	82	139	25	126	39	78	9	120	43	61	16
40 to 44 years	219	83	111	25	106	28	68	10	113	55	43	15
45 to 49 years	188	78	87	23	100	38	49	13	88	40	38	10
50 to 54 years	181	67	91	23	86	33	40	13	95	34	51	10
55 to 59 years	101	29	57	15	40	7	26	7	61	22	31	8
60 to 64 years	106	40	53	13	38	13	20	5	68	27	33	8
65 to 69 years	80	30	40	10	28	11	14	3	52	19	26	7
70 to 74 years	68	17	40	11	17	6	10	1	51	11	30	10
75 years and over	218	72	107	39	61	15	38	8	157	57	69	31
Median	31.9	30.3	33.3	31.3	30.2	29.1	31.2	29.4	34	32.1	35.5	32.8

Source: 2003 Palau International Coral Reef Center Subsistence Fisheries Survey

Table 2. Sample Population by Age and Sex for all Fishers, Palau 2003

5-year Age groups and Sex	Total				With Fishers				Without Fishers			
	Total	Koror	Babel-doub	Other State	Total	Koror	Babel-doub	Other State	Total	Koror	Babel-doub	Other State
Total	654	199	372	83	654	199	372	83	-	-	-	-
Less than 5 years	-	-	-	-	-	-	-	-	-	-	-	-
5 to 9 years	-	-	-	-	-	-	-	-	-	-	-	-
10 to 14 years	1	-	1	-	1	-	1	-	-	-	-	-
15 to 19 years	4	3	1	-	4	3	1	-	-	-	-	-
20 to 24 years	11	3	8	-	11	3	8	-	-	-	-	-
25 to 29 years	43	13	23	7	43	13	23	7	-	-	-	-
30 to 34 years	78	21	44	13	78	21	44	13	-	-	-	-
35 to 39 years	86	28	51	7	86	28	51	7	-	-	-	-
40 to 44 years	116	30	72	14	116	30	72	14	-	-	-	-
45 to 49 years	111	30	67	14	111	30	67	14	-	-	-	-
50 to 54 years	90	28	49	13	90	28	49	13	-	-	-	-
55 to 59 years	58	19	29	10	58	19	29	10	-	-	-	-
60 to 64 years	32	14	16	2	32	14	16	2	-	-	-	-
65 to 69 years	14	4	8	2	14	4	8	2	-	-	-	-
70 to 74 years	7	6	1	-	7	6	1	-	-	-	-	-
75 years and over	3	-	2	1	3	-	2	1	-	-	-	-
Median	44.5	45.3	44	45.2	44.5	45.3	44	45.2	-	-	-	-
Males	634	194	360	80	634	194	360	80	-	-	-	-
Less than 5 years	-	-	-	-	-	-	-	-	-	-	-	-
5 to 9 years	-	-	-	-	-	-	-	-	-	-	-	-
10 to 14 years	1	-	1	-	1	-	1	-	-	-	-	-
15 to 19 years	3	2	1	-	3	2	1	-	-	-	-	-
20 to 24 years	11	3	8	-	11	3	8	-	-	-	-	-
25 to 29 years	41	12	22	7	41	12	22	7	-	-	-	-
30 to 34 years	77	21	44	12	77	21	44	12	-	-	-	-
35 to 39 years	85	28	50	7	85	28	50	7	-	-	-	-
40 to 44 years	113	29	70	14	113	29	70	14	-	-	-	-
45 to 49 years	107	29	65	13	107	29	65	13	-	-	-	-
50 to 54 years	87	28	47	12	87	28	47	12	-	-	-	-
55 to 59 years	57	19	28	10	57	19	28	10	-	-	-	-
60 to 64 years	29	13	14	2	29	13	14	2	-	-	-	-
65 to 69 years	13	4	7	2	13	4	7	2	-	-	-	-
70 to 74 years	7	6	1	-	7	6	1	-	-	-	-	-
75 years and over	3	-	2	1	3	-	2	1	-	-	-	-
Median	44.4	45.3	43.9	45	44.4	45.3	43.9	45	-	-	-	-
Females	20	5	12	3	20	5	12	3	-	-	-	-
Less than 5 years	-	-	-	-	-	-	-	-	-	-	-	-
5 to 9 years	-	-	-	-	-	-	-	-	-	-	-	-
10 to 14 years	-	-	-	-	-	-	-	-	-	-	-	-
15 to 19 years	1	1	-	-	1	1	-	-	-	-	-	-
20 to 24 years	-	-	-	-	-	-	-	-	-	-	-	-
25 to 29 years	2	1	1	-	2	1	1	-	-	-	-	-
30 to 34 years	1	-	-	1	1	-	-	1	-	-	-	-
35 to 39 years	1	-	1	-	1	-	1	-	-	-	-	-
40 to 44 years	3	1	2	-	3	1	2	-	-	-	-	-
45 to 49 years	4	1	2	1	4	1	2	1	-	-	-	-
50 to 54 years	3	-	2	1	3	-	2	1	-	-	-	-
55 to 59 years	1	-	1	-	1	-	1	-	-	-	-	-
60 to 64 years	3	1	2	-	3	1	2	-	-	-	-	-
65 to 69 years	1	-	1	-	1	-	1	-	-	-	-	-
70 to 74 years	-	-	-	-	-	-	-	-	-	-	-	-
75 years and over	-	-	-	-	-	-	-	-	-	-	-	-
Median	47.5	42.5	50	47.5	47.5	42.5	50	47.5	-	-	-	-

Source: 2003 Palau International Coral Reef Center Subsistence Fisheries Survey

Table 3. Fishing Characteristics, Palau 2003

Characteristics	Total				Male Fishers				Female Fishes			
	Total	Koror	Babel-doub	Other State	Total	Koror	Babel-doub	Other State	Total	Koror	Babel-doub	Other State
FISH FOR OWN FOOD OR SELL												
Total Reporting	653	199	371	83	633	194	359	80	20	5	12	3
Fish for own food or to sell	566	189	300	77	549	184	291	74	17	5	9	3
Do not fish for own food or sell	86	10	70	6	83	10	67	6	3	-	3	-
Unknown	1	-	1	-	1	-	1	-	-	-	-	-
FISH TO SELL												
Total fish for sell	566	189	300	77	549	184	291	74	17	5	9	3
Fish to sell	528	178	291	59	512	173	283	56	16	5	8	3
Do not fish to sell	38	11	9	18	37	11	8	18	1	-	1	-
Unknown	-	-	-	-	-	-	-	-	-	-	-	-
Fishing to sell	44	12	16	16	42	11	15	16	2	1	1	-
TYPE OF BOAT												
Total declaring type	336	118	181	37	327	113	178	36	9	5	3	1
Indian Canoe	31	9	14	8	29	8	14	7	2	1	-	1
Bobo	6	4	2	-	4	3	1	-	2	1	1	-
Bamboo raft	20	4	16	-	20	4	16	-	-	-	-	-
Fiberglass	270	99	142	29	265	96	140	29	5	3	2	-
Marine plywood	8	1	7	-	8	1	7	-	-	-	-	-
Others	1	1	-	-	1	1	-	-	-	-	-	-
SHARING BOAT												
Total reporting	474	127	289	58	462	125	281	56	12	2	8	2
Shared same boat	149	27	96	26	143	26	92	25	6	1	4	1
Did not share same boat	174	46	111	17	170	45	108	17	4	1	3	-
Unknown	151	54	82	15	149	54	81	14	2	-	1	1
MAIN SPECIES CAUGHT												
Total reporting	212	49	145	18	201	46	138	17	11	3	7	1
Sweetlips	1	1	-	-	1	1	-	-	-	-	-	-
Goatfish	5	3	2	-	5	3	2	-	-	-	-	-
Spadefish and Batfish	10	4	5	1	9	3	5	1	1	1	-	-
Soldierfish and Squirrelfish	12	2	8	2	10	2	6	2	2	-	2	-
Rabbitfish	25	8	17	-	22	7	15	-	3	1	2	-
Surgeonfish	12	2	9	1	11	2	8	1	1	-	1	-
Oarrotfish	12	1	9	2	12	1	9	2	-	-	-	-
Wrasses	12	2	10	-	10	1	9	-	2	1	1	-
Mullet	1	1	-	-	1	1	-	-	-	-	-	-
Groupers	38	6	27	5	38	6	27	5	-	-	-	-
Jacks and Trevallies	-	-	-	-	-	-	-	-	-	-	-	-
Snappers and Emperors	19	4	14	1	19	4	14	1	-	-	-	-
Barracudas	2	-	2	-	2	-	2	-	-	-	-	-
Tunas	4	1	3	-	4	1	3	-	-	-	-	-
Invert	32	6	21	5	30	6	20	4	2	-	1	1
Others	2	-	2	-	2	-	2	-	-	-	-	-
Assorted	25	8	16	1	25	8	16	1	-	-	-	-
MAIN SPECIES EATEN												
Total reporting	146	37	98	11	139	36	92	11	7	1	6	-
Sweetlips	1	1	-	-	1	1	-	-	-	-	-	-
Goatfish	2	1	1	-	2	1	1	-	-	-	-	-
Spadefish and Batfish	6	2	4	-	6	2	4	-	-	-	-	-
Soldierfish and Squirrelfish	8	1	5	2	6	1	3	2	2	-	2	-
Rabbitfish	9	1	8	-	7	1	6	-	2	-	2	-
Surgeonfish	9	3	6	-	9	3	6	-	-	-	-	-
Oarrotfish	4	1	2	1	4	1	2	1	-	-	-	-
Wrasses	9	3	6	-	8	3	5	-	1	-	1	-
Mullet	-	-	-	-	-	-	-	-	-	-	-	-
Groupers	26	3	21	2	26	3	21	2	-	-	-	-
Jacks and Trevallies	3	2	-	1	3	2	-	1	-	-	-	-
Snappers and Emperors	11	1	9	1	11	1	9	1	-	-	-	-
Barracudas	4	1	3	-	3	-	3	-	1	1	-	-
Tunas	8	3	4	1	8	3	4	1	-	-	-	-
Invert	17	6	9	2	16	6	8	2	1	-	1	-
Others	3	1	2	-	3	1	2	-	-	-	-	-
Assorted	26	7	18	1	26	7	18	1	-	-	-	-

Source: 2003 Palau International Coral Reef Center Subsistence Fisheries Survey

Table 4. Fishing Characteristics, Palau 2003

Characteristic	Total				Male Fisher				Female Fisher			
	Total	Koror	Babel-doub	Other State	Total	Koror	Babel-doub	Other State	Total	Koror	Babel-doub	Other State
MAIN SPECIES GIVEN AWAY												
Total reporting	165	40	103	22	157	37	98	22	8	3	5	-
Sweetlips	2	1	1	-	2	1	1	-	-	-	-	-
Goatfish	4	1	2	1	4	1	2	1	-	-	-	-
Spadefish and Batfish	7	2	5	-	7	2	5	-	-	-	-	-
Soldierfish and Squirrelfish	11	2	6	3	10	2	5	3	1	-	1	-
Rabbitfish	10	2	8	-	8	2	6	-	2	-	2	-
Surgeonfish	10	3	6	1	9	3	5	1	1	-	1	-
Parrotfish	5	2	2	1	5	2	2	1	-	-	-	-
Wrasses	13	3	10	-	12	3	9	-	1	-	1	-
Mullets	2	1	1	-	2	1	1	-	-	-	-	-
Groupers	36	3	27	6	36	3	27	6	-	-	-	-
Jacks and Trevallies	3	2	-	1	2	1	-	1	1	1	-	-
Snappers and Emperors	11	2	7	2	11	2	7	2	-	-	-	-
Barracudas	4	1	3	-	3	-	3	-	1	1	-	-
Tunas	8	3	4	1	8	3	4	1	-	-	-	-
Invert	29	9	15	5	28	8	15	5	1	1	-	-
Others	1	1	-	-	1	1	-	-	-	-	-	-
Assorted	9	2	6	1	9	2	6	1	-	-	-	-
SPECIAL SEASON FOR FISHING												
Total reporting	46	10	36	-	46	10	36	-	-	-	-	-
Yes	29	7	22	-	29	7	22	-	-	-	-	-
No	5	-	5	-	5	-	5	-	-	-	-	-
Don't know	12	3	9	-	12	3	9	-	-	-	-	-
SEASON BY TYPE OF FISH												
Total reporting	630	190	359	81	611	185	348	78	19	5	11	3
Parrotfish season	338	110	180	48	326	106	173	47	12	4	7	1
Groupers season	103	25	67	11	100	25	66	9	3	-	1	2
Snappers season	100	30	57	13	98	30	55	13	2	-	2	-
Kemedukl season	-	-	-	-	-	-	-	-	-	-	-	-
Rabbitfish season	8	1	7	-	8	1	7	-	-	-	-	-
Surgeon fish season	1	1	-	-	1	1	-	-	-	-	-	-
Mullet season	1	-	1	-	1	-	1	-	-	-	-	-
Jack/Trevallies season	-	-	-	-	-	-	-	-	-	-	-	-
Tuna season	-	-	-	-	-	-	-	-	-	-	-	-
Kmal season	-	-	-	-	-	-	-	-	-	-	-	-
Erapruki season	38	14	18	6	36	13	17	6	2	1	1	-
Turtle season	9	2	5	2	9	2	5	2	-	-	-	-
Emang season	6	1	4	1	6	1	4	1	-	-	-	-
Other fish season	2	-	2	-	2	-	2	-	-	-	-	-
Don't know	24	6	18	-	24	6	18	-	-	-	-	-
FISHING CONDITIONS GOOD NOW												
Total reporting	451	131	265	55	436	128	256	52	15	3	9	3
Yes	417	124	238	55	402	121	229	52	15	3	9	3
No	26	5	21	-	26	5	21	-	-	-	-	-
Don't know	8	2	6	-	8	2	6	-	-	-	-	-
HOW OFTEN GET MAXIMUM CATCH												
Total reporting	413	95	267	51	399	93	257	49	14	2	10	2
Very often	370	87	232	51	356	85	222	49	14	2	10	2
Often	7	-	7	-	7	-	7	-	-	-	-	-
Rarely	11	-	11	-	11	-	11	-	-	-	-	-
Once	2	-	2	-	2	-	2	-	-	-	-	-
Don't know	23	8	15	-	23	8	15	-	-	-	-	-
HOW OFTEN GET MINIMUM CATCH												
Total reporting	438	99	288	51	424	98	278	48	14	1	10	3
Very often	395	91	253	51	381	90	243	48	14	1	10	3
Often	9	-	9	-	9	-	9	-	-	-	-	-
Rarely	6	-	6	-	6	-	6	-	-	-	-	-
Once	2	-	2	-	2	-	2	-	-	-	-	-
Don't know	26	8	18	-	26	8	18	-	-	-	-	-

Source: 2003 Palau International Coral Reef Center Subsistence Fisheries Survey

Table 5. Fishing Characteristics, Palau 2003

Characteristic	Total				Male Fishers				Male Fishers			
	Total	Koror	Babel-doub	Other State	Total	Koror	Babel-doub	Other State	Total	Koror	Babel-doub	Other State
SEASON FOR MINIMUM CATCH												
Total reporting	179	41	125	13	173	39	122	12	6	2	3	1
Parrotfish season	6	-	3	3	5	-	2	3	1	-	1	-
Groupers season	9	2	6	1	8	2	5	1	1	-	1	-
Snappers season	10	3	7	-	10	3	7	-	-	-	-	-
Kemedukl season	6	-	6	-	5	-	5	-	1	-	1	-
Rabbitfish season	24	6	15	3	24	6	15	3	-	-	-	-
Surgeon fish season	1	-	1	-	1	-	1	-	-	-	-	-
Mullet season	2	-	2	-	2	-	2	-	-	-	-	-
Jack/Trevallies season	3	1	2	-	3	1	2	-	-	-	-	-
Tuna season	-	-	-	-	-	-	-	-	-	-	-	-
Kmal season	40	7	29	4	38	6	29	3	2	1	-	1
Erapuki season	2	1	1	-	1	-	1	-	1	1	-	-
Turtle season	8	3	4	1	8	3	4	1	-	-	-	-
Erang season	-	-	-	-	-	-	-	-	-	-	-	-
Other fish season	4	-	4	-	4	-	4	-	-	-	-	-
Don't know	64	18	45	1	64	18	45	1	-	-	-	-
WILLING TO KEEP FISHING LOG												
Total reporting	76	22	50	4	74	20	50	4	2	2	-	-
Yes	27	5	21	1	27	5	21	1	-	-	-	-
No	21	9	12	-	20	8	12	-	1	1	-	-
Don't know	28	8	17	3	27	7	17	3	1	1	-	-
PLACE FISHERS SELL FISH												
Total reporting	437	122	259	56	425	120	251	54	12	2	8	2
Bethlehem Park	9	2	7	-	9	2	7	-	-	-	-	-
Blue Horse	15	11	3	1	15	11	3	1	-	-	-	-
Causeway store	12	10	1	1	12	10	1	1	-	-	-	-
Fuji restaurant	265	71	177	17	258	71	171	16	7	-	6	1
Happy Fish Market	3	-	3	-	3	-	3	-	-	-	-	-
P.P.R. restaurant	28	3	20	5	28	3	20	5	-	-	-	-
Pelolu Fishmarket - Koror	4	1	2	1	4	1	2	1	-	-	-	-
Pelolu coop	7	1	4	2	6	1	4	1	1	-	-	1
Penthouse restaurant	90	23	39	28	86	21	37	28	4	2	2	-
Yano's restaurant	1	-	1	-	1	-	1	-	-	-	-	-
Other places	3	-	2	1	3	-	2	1	-	-	-	-
WHO SOLD												
Total reporting	102	22	47	33	96	18	45	33	6	4	2	-
Fisher him/herself	100	22	45	33	94	18	43	33	6	4	2	-
Middleman/collector	2	-	2	-	2	-	2	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-
TYPE OF ENGINE WHEN FISHING												
Total reporting	250	92	131	27	247	90	130	27	3	2	1	-
Small engines (2 to 25 hp)	33	8	18	7	33	8	18	7	-	-	-	-
Medium engines (40 to 90 hp)	146	46	88	12	145	45	88	12	1	1	-	-
Large engines (100 to 250 hp)	71	38	25	8	69	37	24	8	2	1	1	-

Source: 2003 Palau International Coral Reef Center Subsistence Fisheries Survey

Table 6. Fishing Characteristics, Palau 2003

Characteristics	Total				Male Fishers				Male Fishers			
	Total	Koror	Babel-doub	Other State	Total	Koror	Babel-doub	Other State	Total	Koror	Babel-doub	Other State
FISH IN SAME LOCATION AS 5 YEARS AGO												
Total reporting	85	11	50	24	85	11	50	24	-	-	-	-
Yes	41	6	32	3	41	6	32	3	-	-	-	-
No	27	4	16	7	27	4	16	7	-	-	-	-
Don't know	17	1	2	14	17	1	2	14	-	-	-	-
USE SAME EQUIPMENT AS 5 YEARS AGO												
Total reporting	249	76	137	36	243	71	136	36	6	5	1	-
Yes	225	72	123	30	219	67	122	30	6	5	1	-
No	18	3	13	2	18	3	13	2	-	-	-	-
Don't know	6	1	1	4	6	1	1	4	-	-	-	-
SPEND SAME AMOUNT OF TIME												
Total reporting	645	197	365	83	626	192	354	80	19	5	11	3
Yes	442	122	252	68	430	120	245	65	12	2	7	3
No	187	69	103	15	181	66	100	15	6	3	3	-
Don't know	16	6	10	-	15	6	9	-	1	-	1	-
SAME SPECIES AS 5 YEARS AGO												
Total reporting	643	196	364	83	625	191	354	80	18	5	10	3
Yes	560	168	318	74	545	164	310	71	15	4	8	3
No	65	22	37	6	63	21	36	6	2	1	1	-
Don't know	18	6	9	3	17	6	8	3	1	-	1	-
SAME AMOUNT TIME FISHING												
Total reporting	638	192	363	83	620	187	353	80	18	5	10	3
Yes	292	79	173	40	282	77	168	37	10	2	5	3
No	320	105	174	41	314	102	171	41	6	3	3	-
Don't know	26	8	16	2	24	8	14	2	2	-	2	-
SIZE OF FISH THE SAME												
Total reporting	636	192	361	83	619	187	352	80	17	5	9	3
Yes	485	147	271	67	473	143	265	65	12	4	6	2
No	130	39	77	14	126	38	75	13	4	1	2	1
Don't know	21	6	13	2	20	6	12	2	1	-	1	-
IF DIFFERENT SIZE, HOW DIFFERENT												
Total reporting	629	189	357	83	612	184	348	80	17	5	9	3
Larger	420	130	227	63	410	126	222	62	10	4	5	1
Same	140	44	80	16	134	43	77	14	6	1	3	2
Smaller	63	15	44	4	62	15	43	4	1	-	1	-
Don't know	6	-	6	-	6	-	6	-	-	-	-	-
MAJOR PROBLEMS WITH REEFS												
Total reporting	634	195	359	80	616	190	349	77	18	5	10	3
Yes	173	49	104	20	166	48	100	18	7	1	4	2
No	442	141	243	58	432	137	238	57	10	4	5	1
Don't know	19	5	12	2	18	5	11	2	1	-	1	-
PROBLEMS WITH REEF CAN BE SOLVED												
Total reporting	514	151	297	66	503	147	291	65	11	4	6	1
Yes	45	12	30	3	44	12	29	3	1	-	1	-
No	32	1	28	3	32	1	28	3	-	-	-	-
Don't know	437	138	239	60	427	134	234	59	10	4	5	1
PERSONAL WISH FOR FUTURE												
Total reporting	652	198	371	83	632	193	359	80	20	5	12	3
Moratorium	525	170	287	68	508	165	277	66	17	5	10	2
Impose fees	65	17	39	9	63	17	38	8	2	-	1	1
Keep it clean	23	4	15	4	23	4	15	4	-	-	-	-
Maintain area	5	1	3	1	5	1	3	1	-	-	-	-
Marine protected area	8	1	7	-	8	1	7	-	-	-	-	-
Enforcement	5	-	5	-	4	-	4	-	1	-	1	-
Others	14	5	9	-	14	5	9	-	-	-	-	-
Don't know	7	-	6	1	7	-	6	1	-	-	-	-

Source: 2003 Palau International Coral Reef Center Subsistence Fisheries Survey

Table 7. Fishing Characteristics, Palau 2003

Characteristics	Total				Male Fishers				Male Fishers			
	Total	Koror	Babel-doub	Other State	Total	Koror	Babel-doub	Other State	Total	Koror	Babel-doub	Other State
HOUSEHOLDS DOING OTHER SUBSISTENCE												
Total reporting on gardening	592	192	329	71	574	187	317	70	18	5	12	1
Doing gardening	431	151	230	50	420	146	225	49	11	5	5	1
Doing gardening	161	41	99	21	154	41	92	21	7	-	7	-
Total reporting on livestock	50	9	40	1	49	9	39	1	1	-	1	-
Raising livestock	5	1	4	-	5	1	4	-	-	-	-	-
Not raising livestock	45	8	36	1	44	8	35	1	1	-	1	-
Total reporting handicrafts	49	9	39	1	48	9	38	1	1	-	1	-
Producing handicrafts	4	1	3	-	4	1	3	-	-	-	-	-
Not producing handicrafts	45	8	36	1	44	8	35	1	1	-	1	-

Source: 2003 Palau International Coral Reef Center Subsistence Fisheries Survey