

# U.S. MARINE RECREATIONAL FISHERIES

## ESTIMATED TOTAL NUMBER OF FISH CAUGHT (INCLUDING RELEASED ALIVE) AND PSE (%)

### BY MARINE RECREATIONAL ANGLERS, BY SPECIES, 1993-1997 FOR THE PACIFIC COAST

Year	Barred sandbass		barred surperch		Black rockfish		Blue rockfish		Bocaccio	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
----- Number in thousands -----										
1993. . .	1,542	4	678	9	949	6	1,862	7	147	14
1994. . .	1,487	5	385	11	693	7	544	7	179	14
1995. . .	1,514	6	672	10	631	6	440	7	24	18
1996. . .	1,637	4	561	12	605	7	631	7	68	14
1997. . .	1,411	6	611	13	595	9	736	13	65	23
Year	Brown rockfish		Cabezon		California halibut		Canary Rockfish		Chilipepper rockfish	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
----- Number in thousands -----										
1993. . .	154	9	109	7	347	7	231	7	46	25
1994. . .	67	14	76	9	491	6	178	8	56	18
1995. . .	80	11	85	11	924	6	201	10	28	26
1996. . .	111	9	111	8	683	6	131	8	55	18
1997. . .	101	19	74	12	510	7	115	14	3	39
Year	Copper rockfish		Corbina		Gopher rockfish		Grass rockfish		Kelp bass	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
----- Number in thousands -----										
1993. . .	156	9	17	18	299	10	32	13	2,610	5
1994. . .	159	11	26	17	216	10	17	17	1,848	4
1995. . .	77	10	57	17	92	12	15	18	1,599	6
1996. . .	234	8	33	15	113	10	15	16	1,634	5
1997. . .	102	11	24	19	76	13	21	20	1,723	7
Year	Kelp greenling		Lingcod		Pacific barracuda		Pacific bonito		Pacific cod	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
----- Number in thousands -----										
1993. . .	209	8	381	5	1,250	6	630	7	0	0
1994. . .	101	9	262	6	1,765	6	346	10	1	63
1995. . .	95	9	243	6	1,379	6	100	13	0	0
1996. . .	226	8	356	6	566	6	140	11	12	45
1997. . .	176	10	282	7	849	7	202	9	2	30
Year	Pacific chub mackerel		Pacific sardine		Pile perch		Quilback rockfish		Redtail surfperch	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
----- Number in thousands -----										
1993. . .	4,651	4	329	17	33	19	34	34	69	17
1994. . .	5,313	4	368	42	31	13	9	14	90	17
1995. . .	5,146	5	73	38	29	25	5	24	91	14
1996. . .	5,931	4	288	22	159	22	58	13	112	22
1997. . .	5,721	7	164	21	46	16	48	15	41	24

Note:--Est = estimate. PSE (%) = Proportional standard error.

1993-1995 Estimates do not include Washington as the Marine Recreational Fisheries Statistics Survey was not conducted in Washington in those years.

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Year	Sheephead (Cal.)		Silver surfperch		Striped bass		Striped seaperch		Surf smelt	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Number in thousands-----										
1993. .	68	11	110	17	101	13	132	9	1,632	26
1994. .	87	11	46	19	115	12	73	13	1,202	28
1995. .	60	14	57	16	151	12	98	19	1,413	25
1996. .	77	12	60	20	174	9	286	12	4,807	25
1997. .	47	19	115	21	169	11	113	19	1,624	45
Year	White croaker		White sturgeon		Yellowtail		Yellowtail rockfish		All fishes	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Number in thousands-----										
1993. .	2,019	5	22	16	120	10	284	8	30,922	2
1994. .	900	9	5	30	24	15	164	8	27,169	2
1995. .	1,408	15	47	19	30	16	140	8	27,609	2
1996. .	1,958	7	22	15	64	10	83	10	34,047	4
1997. .	1,063	10	26	17	855	9	352	21	7	3

Note:--Est = estimate. PSE (%) = Proportional standard error.

1993-1995 Estimates do not include Washington state data as the Marine Recreational Fisheries Statistics Survey was not conducted in Washington in those years.

### ESTIMATED WEIGHT (IN LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS BY SPECIES, 1993-1997 FOR THE PACIFIC COAST

Year	Barred sandbass		barred surfperch		Black rockfish		Blue rockfish		Bocaccio	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Thousands of pounds-----										
1993. .	1,048	6	315	13	1,621	7	1,310	7	271	14
1994. .	1,034	7	167	14	1,150	8	503	8	424	17
1995. .	1,468	8	354	12	1,121	7	395	8	68	21
1996. .	1,305	6	313	15	1,178	7	607	8	219	16
1997. .	790	12	231	15	1,173	9	652	12	116	25
Year	Brown rockfish		Cabezon		California halibut		Canary Rockfish		Chilipepper rockfish	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Thousands of pounds-----										
1993. .	148	11	262	8	596	11	251	7	36	41
1994. .	59	14	171	9	790	9	184	8	50	20
1995. .	97	12	186	13	2,349	8	266	9	23	26
1996. .	105	10	254	9	1,159	9	174	9	71	20
1997. .	109	20	195	13	875	10	178	14	3	31

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## ESTIMATED WEIGHT (IN LBS.) AND PSE (%) OF FISH HARVESTED BY MARINE RECREATIONAL ANGLERS BY SPECIES, 1993-1997 FOR THE PACIFIC COAST

Year	Copper rockfish		Corbina		Gopher rockfish		Grass rockfish		Kelp bass	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Thousands of pounds-----										
1993..	218	10	12	21	224	11	38	17	1,434	6
1994..	203	12	14	26	174	11	22	16	1,395	6
1995..	116	12	37	21	82	13	15	17	1,131	7
1996..	350	9	33	24	83	11	21	17	816	6
1997..	166	12	15	36	56	14	21	22	767	9
Year	Kelp greenling		Lingcod		Pacific barracuda		Pacific bonito		Pacific cod	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Thousands of pounds-----										
1993..	195	8	1,605	6	1,688	9	707	9	0	0
1994..	95	9	906	8	2,016	8	519	10	1	72
1995..	85	10	856	9	2,491	8	177	16	0	0
1996..	206	9	1,127	7	1,027	8	91	17	16	45
1997..	164	11	878	10	1,700	8	412	12	2	0
Year	Pacific chub mackerel		Pacific sardine		Pile perch		Quilback rockfish		Redtail surfperch	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Thousands of pounds-----										
1993..	1,373	6	51	20	37	23	94	41	58	19
1994..	2,225	8	42	34	26	14	16	15	70	18
1995..	2,163	8	4	69	20	23	8	20	62	15
1996..	1,640	5	19	30	171	24	81	15	102	23
1997..	2,126	20	14	28	43	18	79	17	36	27
Year	Sheephead (Cal.)		Silver surfperch		Striped bass		Striped seaperch		Surf smelt	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Thousands of pounds-----										
1993..	154	21	23	17	106	18	130	10	159	27
1994..	234	17	10	21	104	19	61	16	90	28
1995..	106	19	18	19	380	15	99	21	122	24
1996..	174	16	17	23	311	13	259	13	514	29
1997..	114	28	27	26	327	15	104	18	120	44
Year	White croaker		White sturgeon		Yellowtail		Yellowtail rockfish		All fishes	
	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)	Est	PSE (%)
-----Thousands of pounds-----										
1993..	425	7	207	24	943	11	249	8	20,935	2
1994..	174	15	44	36	209	18	179	8	17,924	2
1995..	410	21	764	21	308	17	198	9	24,313	2
1996..	614	9	641	16	660	14	237	13	23,191	2
1997..	328	20	549	15	3,234	10	451	21	26,007	3

Note:--Est = estimate. PSE (%) = Proportional standard error.

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