

Appendix 3. 2013 Pacific Marine Mammal Stock Assessment Reports. S=strategic stock; N=non-strategic stock. Shaded lines indicate reports revised in 2013. unk=unknown, undet=undetermined, n/a=not applicable.

Species	Stock Area	NMFS Center	N est	CV N est	N min	R max	Fr	PBR	Total Annual Mortality	Annual Fishery Mortality	Strategic Status	Recent Abundance Surveys				SAR Last Revised
									+ Serious Injury	+ Serious Injury		2006	2007	2008	2009	2010
California sea lion	U.S.	SWC	296,750	n/a	153,337	0.12	1	9,200	≥431	≥337	N	2006	2007	2008	2011	
Harbor seal	California	SWC	30,196	n/a	26,667	0.12	1	1,600	31	18	N	2002	2004	2009	2011	
Harbor seal	Oregon/Washington Coast	AKC	unk	unk	unk	0.12	1	unk	10.6	7.4	N	1999			2013	
Harbor seal	Washington Northern Inland Waters	AKC	unk	unk	unk	0.12	1	unk	9.8	2.8	N	1999			2013	
Harbor seal	Southern Puget Sound	AKC	unk	unk	unk	0.12	1	unk	3.4	1	N	1999			2013	
Harbor seal	Hood Canal	AKC	unk	unk	unk	0.12	1	unk	0.2	0.2	N	1999			2013	
Northern Elephant Seal	California breeding	SWC	124,000	n/a	74,913	0.117	1	4,382	≥10.4	≥8.8	N	2001	2002	2005	2007	
Guadalupe Fur Seal	Mexico to California	SWC	7,408	n/a	3,028	0.12	0.5	91	0	0	S	1993			2000	
Northern Fur Seal	California	AKC	12,844	n/a	6,722	0.12	1	403	2.6	≥0.4	N	2009	2010	2011	2013	
Monk Seal	Hawaii	PIC	1,209	n/a	1,182	0.07	0.1	undet	≥1.8	≥0.6	S	2009	2010	2011	2013	
Harbor porpoise	Morro Bay	SWC	2,917	0.41	2,102	0.04	0.5	21	≥0.6	≥0.6	N	2002	2007	2012	2013	
Harbor porpoise	Monterey Bay	SWC	3,715	0.51	2,480	0.04	0.5	25	0	0	N	2002	2007	2011	2013	
Harbor porpoise	San Francisco – Russian River	SWC	9,886	0.51	6,625	0.04	0.5	66	0	0	N	2002	2007	2011	2013	
Harbor porpoise	Northern CA/Southern OR	SWC	35,769	0.52	23,749	0.04	1	475	≥0.6	≥0.6	N	2002	2007	2011	2013	
Harbor porpoise	Northern Oregon/Washington Coast	AKC	21,487	0.44	15,123	0.04	0.5	151	≥3.0	≥3.0	N	2002	2010	2011	2013	
Harbor porpoise	Washington Inland Waters	AKC	10,682	0.38	7,841	0.04	0.4	63	≥2.2	≥2.6	N	1996	2002	2003	2011	
Dall's porpoise	California/Oregon/Washington	SWC	42,000	0.33	32,106	0.04	0.4	257	≥0.4	≥0.4	N	2001	2005	2008	2010	
Pacific white-sided dolphin	California/Oregon/Washington	SWC	26,930	0.28	21,406	0.04	0.4	171	17.8	11.8	N	2001	2005	2008	2013	
Risso's dolphin	California/Oregon/Washington	SWC	6,272	0.30	4,913	0.04	0.4	39	1.6	1.6	N	2001	2005	2008	2010	
Common Bottlenose dolphin	California Coastal	SWC	323	0.13	290	0.04	0.5	2.4	0.2	0.2	N	2000	2004	2005	2008	
Common Bottlenose dolphin	California/Oregon/Washington Offshore	SWC	1,006	0.48	684	0.04	0.4	5.5	≥2.0	≥2.0	N	2001	2005	2008	2013	
Striped dolphin	California/Oregon/Washington	SWC	10,908	0.34	8,231	0.04	0.5	82	0	0	N	2001	2005	2008	2010	
Common dolphin, short-beaked	California/Oregon/Washington	SWC	411,211	0.21	343,990	0.04	0.5	3,440	64	64	N	2001	2005	2008	2010	
Common dolphin, long-beaked	California	SWC	107,016	0.42	76,224	0.04	0.4	610	13.8	13	N	2005	2008	2009	2012	
Northern right whale dolphin	California/Oregon/Washington	SWC	8,334	0.40	6,019	0.04	0.4	48	4.8	3.6	N	2001	2005	2008	2010	
Killer whale	Eastern North Pacific Offshore	SWC	240	0.49	162	0.04	0.5	1.6	0	0	N	2001	2005	2008	2010	
Killer whale	Eastern North Pacific Southern Resident	NWC	85	n/a	85	0.032	0.1	0.14	0	0	S	2010	2011	2012	2013	
Short-finned pilot whale	California/Oregon/Washington	SWC	760	0.64	465	0.04	0.4	4.6	0	0	N	2001	2005	2008	2010	
Baird's beaked whale	California/Oregon/Washington	SWC	847	0.81	466	0.04	0.5	4.7	0	0	N	2001	2005	2008	2013	
Mesoplodont beaked whales	California/Oregon/Washington	SWC	694	0.65	389	0.04	0.5	3.9	0	0	S	2001	2005	2008	2013	
Cuvier's beaked whale	California/Oregon/Washington	SWC	6,590	0.55	4,481	0.04	0.5	45	0	0	S	2001	2005	2008	2013	
Pygmy Sperm whale	California/Oregon/Washington	SWC	579	1.02	271	0.04	0.5	2.7	0	0	N	2001	2005	2008	2010	
Dwarf sperm whale	California/Oregon/Washington	SWC	unk	unk	unk	0.04	0.5	undet	0	0	N	2001	2005	2008	2010	
Sperm whale	California/Oregon/Washington	SWC	971	0.31	751	0.04	0.1	1.5	4.0	3.8	S	2001	2005	2008	2012	
Gray whale	Eastern North Pacific	SWC	19,126	0.07	18,017	0.062	1.0	558	127	2.4	N	2009	2010	2011	2013	
Humpback whale	California/Oregon/Washington	SWC	1,918	0.03	1,855	0.08	0.3	11.0	≥ 5.5	≥ 4.4	S	2009	2010	2011	2013	
Blue whale	Eastern North Pacific	SWC	1,647	0.07	1,551	0.04	0.3	2.3	1.9	0	S	2005	2008	2011	2013	
Fin whale	California/Oregon/Washington	SWC	3,051	0.18	2,598	0.04	0.3	16	2.2	0.6	S	2001	2005	2008	2013	
Sei whale	Eastern North Pacific	SWC	126	0.53	83	0.04	0.1	0.17	0	0	S	2001	2005	2008	2010	
Minke whale	California/Oregon/Washington	SWC	478	1.36	202	0.04	0.5	2.0	0	0	N	2001	2005	2008	2010	
Rough-toothed dolphin	Hawaii	SWC	6,288	0.39	4,581	0.04	0.5	46	unk	unk	N		2002	2010	2013	
Rough-toothed dolphin	American Samoa	PIC	unk	unk	unk	0.04	0.5	unk	unk	unk	unk	n/a	n/a	n/a	2010	

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Species	Stock Area	NMFS Center	N est	CV N est	N min	R max	Fr	PBR	Total Annual Mortality	Annual Fishery Mortality	Strategic Status	Recent Abundance Surveys				SAR Last Revised
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Risso's dolphin	Hawaii	SWC	7,256	0.41	5,207	0.04	0.5	42	0.6	0.6	N	2002	2010	2013		
Common Bottlenose dolphin	Hawaii Pelagic	SWC	5,950	0.59	3,755	0.04	0.5	38	0.2	0.2	N	2002	2010	2013		
Common Bottlenose dolphin	Kaua'i and Ni'i'hau	SWC	184	0.11	168	0.04	0.5	1.7	unk	unk	N	2003	2004	2005	2013	
Common Bottlenose dolphin	O'ahu	SWC	743	0.54	485	0.04	0.5	4.9	unk	unk	N	2002	2003	2006	2013	
Common Bottlenose dolphin	4 Islands Region	SWC	191	0.24	156	0.04	0.5	1.6	unk	unk	N	2002	2003	2006	2013	
Common Bottlenose dolphin	Hawaii Island	SWC	128	0.13	115	0.04	0.5	1.1	unk	unk	N	2002	2003	2006	2013	
Pantropical Spotted dolphin	Hawaii Pelagic	PIC	15,917	0.40	11,508	0.04	0.5	115.0	0	0	N	2002	2002	2010	2013	
Pantropical Spotted dolphin	O'ahu	PIC	unk	unk	unk	0.04	0.5	undet	unk	unk	N			n/a	2013	
Pantropical Spotted dolphin	4 Islands Region	PIC	unk	unk	unk	0.04	0.5	undet	unk	unk	N			n/a	2013	
Pantropical Spotted dolphin	Hawaii Island	PIC	unk	unk	unk	0.04	0.5	undet	unk	unk	N			n/a	2013	
Spinner dolphin	Hawaii Pelagic	PIC	unk	unk	unk	0.04	0.5	undet	0	0	N	2002	2010	2013		
Spinner dolphin	Hawaii Island	PIC	631	0.09	585	0.04	0.5	5.9	unk	unk	N	1994	2003	2011	2013	
Spinner dolphin	Oahu / 4 Islands	PIC	355	0.09	329	0.04	0.5	3.3	unk	unk	N	1993	1998	2007	2013	
Spinner dolphin	Kaua'i / Ni'i'hau	PIC	601	0	509	0.04	0.5	5.1	unk	unk	N	1995	1998	2005	2013	
Spinner dolphin	Kure / Midway	PIC	unk	unk	unk	0.04	0.5	undet	unk	unk	N	1998	2010	2013		
Spinner dolphin	Pearl and Hermes Reef	PIC	unk	unk	unk	0.04	0.5	undet	unk	unk	N			n/a	2013	
Spinner dolphin	American Samoa	PIC	unk	unk	unk	0.04	0.5	unk	unk	unk	unk			n/a	2010	
Striped dolphin	Hawaii Pelagic	PIC	20,650	0.36	15,391	0.04	0.5	154	unk	unk	N	2002	2010	2013		
Fraser's dolphin	Hawaii	PIC	16,992	0.66	10,241	0.04	0.5	102	0	0	N	2002	2010	2010		
Melon-headed whale	Hawaiian Islands	PIC	5,794	0.20	4,904	0.04	0.5	49	0	0	N	2002	2010	2013		
Melon-headed whale	Kohala Resident	PIC	447	0.12	404	0.04	0.5	4.0	0	0	N		2009	2013		
Pygmy killer whale	Hawaii	PIC	3,433	0.52	2,274	0.04	0.5	23.0	0	0	N	2002	2010	2013		
False killer whale	Northwestern Hawaiian Islands	PIC	552	1.09	262	0.04	0.5	2.6	0	0	N		2010	2013		
False killer whale	Hawaii Pelagic	PIC	1,503	0.66	906	0.04	0.5	9.1	12.6	12.6	S	2002	2010	2013		
False killer whale	Palmyra Atoll	PIC	1,329	0.65	806	0.04	0.4	6.4	0.3	0.3	N		2005	2013		
False killer whale	Main Hawaiian Islands Insular	PIC	151	0.20	129	0.04	0.1	0.3	0.1	0.1	S	2009	2010	2011	2013	
False killer whale	American Samoa	PIC	unk	unk	unk	0.04	0.5	unk	unk	unk	unk	n/a	n/a	n/a	2010	
Killer whale	Hawaii	PIC	101	1.00	50	0.04	0.5	1.0	0	0	N	2002	2010	2013		
Pilot whale, short-finned	Hawaii	PIC	12,422	0.43	8,782	0.04	0.4	70	0.1	0.1	N	2002	2010	2013		
Blainville's beaked whale	Hawaii Pelagic	PIC	2,338	1.13	1,088	0.04	0.5	11.0	0	0	N	2002	2010	2013		
Longman's Beaked Whale	Hawaii	PIC	4,571	0.65	2,773	0.04	0.5	28.0	0	0	N	2002	2010	2013		
Cuvier's beaked whale	Hawaii Pelagic	PIC	1,941	0.70	1,142	0.04	0.5	11.4	0	0	N	2002	2010	2013		
Pygmy sperm whale	Hawaii	PIC	unk	unk	unk	0.04	0.5	undet	0	0	N	2002	2010	2013		
Dwarf sperm whale	Hawaii	PIC	unk	unk	unk	0.04	0.5	undet	0	0	N	2002	2010	2013		
Sperm whale	Hawaii	PIC	3,354	0.34	2,539	0.04	0.1	10.2	0.7	0.7	S	2002	2010	2013		
Blue whale	Central North Pacific	PIC	81	1.14	38	0.04	0.1	0.1	0	0	S	2002	2010	2013		
Fin whale	Hawaii	PIC	58	1.12	27	0.04	0.1	0.1	0	0	S	2002	2010	2013		
Bryde's whale	Hawaii	PIC	798	0.28	633	0.04	0.5	6.3	0	0	N	2002	2010	2013		
Sei whale	Hawaii	PIC	178	0.90	93	0.04	0.1	0.2	0.2	0.2	S	2002	2010	2013		
Minke whale	Hawaii	PIC	unk	unk	unk	0.04	0.5	undet	0	0	N	2002	2010	2013		
Humpback whale	American Samoa	SWC	unk	unk	150	0.106	0.1	0.4	0	0	S	2006	2007	2008	2009	
Sea Otter	Southern	USFWS	2,826	n/a	2,723	0.06	0.1	8	≥0.8	≥0.8	S	2006	2007	2008	2008	
Sea Otter	Washington	USFWS	n/a	n/a	1,125	0.2	0.1	11	≥0.2	≥0.2	N	2006	2007	2008	2008	