

Appendix 2. Pacific reports revised in 2019 are highlighted. S=strategic stock, N=non-strategic stock. unk=unknown, undet=undetermined, n/a=not applicable.

Species (Stock Area)	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			
California Sea Lion (U.S.)	257,606	n/a	233,515	0.12	1	14,011	≥321	≥197	N	2008 2013 2014	2018
Harbor seal (California)	30,968	n/a	27,348	0.12	1	1,641	43	30	N	2004 2009 2012	2014
Harbor seal (Oregon/Washington Coast)	unk	unk	unk	0.12	1	undet	10.6	7.4	N	1999	2013
Harbor seal (Washington Northern Inland Waters)	unk	unk	unk	0.12	1	undet	9.8	2.8	N	1999	2013
Harbor seal (Southern Puget Sound)	unk	unk	unk	0.12	1	undet	3.4	1	N	1999	2013
Harbor seal (Hood Canal)	unk	unk	unk	0.12	1	undet	0.2	0.2	N	1999	2013
Northern Elephant Seal (California Breeding)	179,000	n/a	81,368	0.12	1	4,882	8.8	4	N	2002 2005 2010	2014
Guadalupe Fur Seal (Mexico to California)	34,187	n/a	31,019	0.137	0.5	1,062	≥3.8	≥1.2	S	2008 2009 2013	2019
Northern Fur Seal (California)	14,050	n/a	7,524	0.12	1	451	1.8	≥0.8	N	2010 2011 2013	2015
Monk Seal (Hawaii)	1,351	0.03	1,325	0.07	0.1	4.6	≥3.0	≥1.6	S	2015 2016 2017	2019
Harbor porpoise (Morro Bay)	4,255	0.56	2,737	0.097	0.5	66	≥0.4	≥0.2	N	2008 2011 2012	2019
Harbor porpoise (Monterey Bay)	3,455	0.58	2,197	0.042	0.5	23	≥0.2	≥0.2	N	2011 2012 2013	2019
Harbor porpoise (San Francisco - Russian River)	7,524	0.57	4,801	0.04	0.5	48	≥0.6	≥0.6	N	2014 2016 2017	2019
Harbor porpoise (Northern CA/Southern OR)	24,195	0.4	17,447	0.04	1	349	≥0.2	0	N	2011 2014 2016	2019
Harbor porpoise (Northern OR/Washington Coast)	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)	11,233	0.37	8,308	0.04	0.4	66	≥7.2	≥7.2	N	2013 2014 2015	2016
Dall's porpoise (California/Oregon/Washington)	25,750	0.45	17,954	0.04	0.48	172	0.3	0.3	N	2005 2008 2014	2016
Pacific white-sided dolphin (California/Oregon/Washington)	26,814	0.28	21,195	0.04	0.45	191	7.5	1.1	N	2005 2008 2014	2016
Risso's dolphin (California/Oregon/Washington)	6,336	0.32	4,817	0.04	0.48	46	≥3.7	≥3.7	N	2005 2008 2014	2016
Common Bottlenose dolphin (California Coastal)	453	0.06	346	0.04	0.48	2.7	≥2.0	≥1.6	N	2009 2010 2011	2016
Common Bottlenose dolphin (California/Oregon/Washington Offshore)	1,924	0.54	1,255	0.04	0.45	11	≥1.6	≥1.6	N	2005 2008 2014	2016
Striped dolphin (California/Oregon/Washington)	29,211	0.20	24,782	0.04	0.48	238	≥0.8	≥0.8	N	2005 2008 2014	2016
Common dolphin, short-beaked (California/Oregon/Washington)	969,861	0.17	839,325	0.04	0.5	8,393	≥40	≥40	N	2005 2008 2014	2016
Common dolphin, long-beaked (California)	101,305	0.49	68,432	0.04	0.48	657	≥35.4	≥32.0	N	2005 2008 2014	2016
Northern right whale dolphin (California/Oregon/Washington)	26,556	0.44	18,608	0.04	0.48	179	3.8	3.8	N	2005 2008 2014	2016
Killer whale (Eastern N Pacific Offshore)	300	0.1	276	0.04	0.5	2.8	0	0	N	2010 2011 2012	2018
Killer whale (Eastern N Pacific Southern Resident)	75	n/a	75	0.035	0.1	0.13	0	0	S	2016 2017 2018	2019
Short-finned pilot whale (California/Oregon/Washington)	836	0.79	466	0.04	0.48	4.5	1.2	1.2	N	2005 2008 2014	2016
Baird's beaked whale (California/Oregon/Washington)	2,697	0.6	1,633	0.04	0.5	16.0	0	0	N	2005 2008 2014	2017
Mesoplodont beaked whales (California/Oregon/Washington)	3,044	0.54	1,967	0.04	0.5	20.0	0.1	0.1	N	2005 2008 2014	2017
Cuvier's beaked whale (California/Oregon/Washington)	3,274	0.67	2,059	0.04	0.5	21	<0.1	<0.1	N	2005 2008 2014	2017

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Species (Stock Area)	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			
Pygmy Sperm whale (California/Oregon/Washington)	4,111	1.12	1,924	0.04	0.5	19.2	0	0	N	2005 2008 2014	2016
Dwarf sperm whale (California/Oregon/Washington)	unk	unk	unk	0.04	0.5	undet	0	0	N	2005 2008 2014	2016
Sperm whale (California/Oregon/Washington)	1,997	0.57	1,270	0.04	0.1	2.5	0.6	0.64	S	2005 2008 2014	2019
Gray whale (Eastern N Pacific)	26,960	0.05	25,849	0.062	1.0	801	139	9.6	N	2011 2015 2016	2018
Gray whale (Western N Pacific)	290	n/a	271	0.062	0.1	0.12	unk	unk	S	2014 2015 2016	2018
Humpback whale (California/Oregon/Washington)	2,900	0.05	2,784	0.08	0.3	16.7	≥ 42.1	≥ 19.4	S	2011 2013 2014	2019
Blue whale (Eastern N Pacific)	1,496	0.44	1,050	0.04	0.1	1.2	≥ 19.4	≥ 1.44	S	2008 2011 2014	2019
Fin whale (California/Oregon/Washington)	9,029	0.12	8,127	0.04	0.5	81	≥ 43.5	≥ 0.5	S	2005 2008 2014	2018
Sei whale (Eastern N Pacific)	519	0.4	374	0.04	0.1	0.75	≥ 0.2	≥ 0.2	S	2005 2008 2014	2018
Minke whale (California/Oregon/Washington)	636	0.72	369	0.04	0.48	3.5	≥ 1.3	≥ 1.3	N	2005 2008 2014	2016
Bryde's whale (Eastern Tropical Pacific)	unk	unk	unk	0.04	0.5	undet	unk	unk	N	n/a n/a n/a	2015
Rough-toothed dolphin (Hawaii)	72,528	0.39	52,833	0.04	0.5	423	2.1	2.1	N	2002 2010	2017
Rough-toothed dolphin (American Samoa)	unk	unk	unk	0.04	0.5	undet	unk	unk	unk	n/a n/a n/a	2010
Risso's dolphin (Hawaii)	11,613	0.43	8,210	0.04	0.5	82	0	0	N	2002 2010	2017
Common Bottlenose dolphin (Hawaii Pelagic)	21,815	0.57	13,957	0.04	0.5	140	0	0	N	2002 2010	2017
Common Bottlenose dolphin (Kaua'i and Ni'ihau)	n/a	n/a	97	0.04	0.5	1.0	unk	unk	N	2003 2012 2015	2017
Common Bottlenose dolphin (O'ahu)	n/a	n/a	n/a	0.04	0.5	undet	unk	unk	N	2002 2003 2006	2017
Common Bottlenose dolphin (4 Islands Region)	n/a	n/a	n/a	0.04	0.5	undet	unk	unk	N	2002 2003 2006	2017
Common Bottlenose dolphin (Hawaiian Island)	n/a	n/a	91	0.04	0.5	0.9	unk	unk	N	2002 2003 2006	2017
Pantropical Spotted dolphin (Hawaii Pelagic)	55,795	0.40	40,338	0.04	0.5	403.0	0	0	N	2002 2010	2017
Pantropical Spotted dolphin (O'ahu)	unk	unk	unk	0.04	0.5	undet	unk	unk	N	n/a	2017
Pantropical Spotted dolphin (4 Islands Region)	unk	unk	unk	0.04	0.5	undet	unk	unk	N	n/a	2017
Pantropical Spotted dolphin (Hawaii Island)	unk	unk	unk	0.04	0.5	undet	≥ 0.2	≥ 0.2	N	n/a	2017
Spinner dolphin (Hawaii Pelagic)	unk	unk	unk	0.04	0.5	undet	0	0	N	2002 2010	2018
Spinner dolphin (Hawaii Island)	665	0.09	617	0.04	0.5	6.2	≥ 1.0	unk	N	2010 2011 2012	2018
Spinner dolphin (O'ahu / 4 Islands)	n/a	n/a	n/a	0.04	0.5	undet	≥ 0.4	unk	N	1998 2002 2007	2018
Spinner dolphin (Kaua'i / Ni'ihau)	n/a	n/a	n/a	0.04	0.5	undet	unk	unk	N	1995 1998 2005	2018
Spinner dolphin (Kure / Midway)	unk	unk	unk	0.04	0.5	undet	unk	unk	N	1998 2010	2018
Spinner dolphin (Pearl and Hermes Reef)	unk	unk	unk	0.04	0.5	undet	unk	unk	N	n/a	2018
Spinner dolphin (American Samoa)	unk	unk	unk	0.04	0.5	undet	unk	unk	unk	n/a	2010
Striped dolphin (Hawaii Pelagic)	61,021	0.38	44,922	0.04	0.5	449	0	0	N	2002 2010	2017

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							Annual Mortality + Serious	Fishery Mortality + Serious		Injury	Injury	Strategic	2002	2010
Fraser's dolphin (Hawaii)	51,491	0.66	31,034	0.04	0.5	310	0	0	N		2002	2010	2017	
Melon-headed whale (Hawaiian Islands)	8,666	1.00	4,299	0.04	0.5	43	0	0	N		2002	2010	2017	
Melon-headed whale (Kohala Resident)	447	0.12	404	0.04	0.5	4.0	0	0	N			2009	2013	
Pygmy killer whale (Hawaii)	10,640	0.53	6,998	0.04	0.4	56.0	1.1	1.1	N		2002	2010	2017	
False killer whale (NW Hawaiian Islands)	617	1.11	290	0.04	0.4	2.3	0.4	0.4	N			2010	2017	
False killer whale (Hawaii Pelagic)	1,540	0.66	928	0.04	0.5	9.3	7.6	7.6	N		2002	2010	2017	
False killer whale (Palmyra Atoll)	1,329	0.65	806	0.04	0.4	6.4	0.3	0.3	N			2005	2012	
False killer whale (Main Hawaiian Islands Insular)	167	0.14	149	0.04	0.1	0.30	0.0	0.0	S	2013	2014	2015	2017	
False killer whale (American Samoa)	unk	unk	unk	0.04	0.5	undet	unk	unk	unk		n/a	n/a	n/a	2010
Killer whale (Hawaii)	146	0.96	74	0.04	0.5	0.7	0	0	N		2002	2010	2017	
Pilot whale, short-finned (Hawaii)	19,503	0.49	13,197	0.04	0.4	106	0.9	0.9	N		2002	2010	2017	
Blainville's beaked whale (Hawaii Pelagic)	2,105	1.13	980	0.04	0.5	10.0	0	0	N		2002	2010	2017	
Longman's Beaked Whale (Hawaii)	7,619	0.66	4,592	0.04	0.5	46.0	0	0	N		2002	2010	2017	
Cuvier's beaked whale (Hawaii Pelagic)	723	0.69	428	0.04	0.5	4.3	0	0	N		2002	2010	2017	
Pygmy sperm whale (Hawaii)	unk	unk	unk	0.04	0.5	undet	0	0	N		2002	2010	2013	
Dwarf sperm whale (Hawaii)	unk	unk	unk	0.04	0.5	undet	0	0	N		2002	2010	2013	
Sperm whale (Hawaii)	4,559	0.33	3,478	0.04	0.1	13.9	0.7	0.7	S		2002	2010	2017	
Blue whale (Central N Pacific)	133	1.09	63	0.04	0.1	0.1	0	0	S		2002	2010	2017	
Fin whale (Hawaii)	154	1.05	75	0.04	0.1	0.1	0	0	S		2002	2010	2017	
Bryde's whale (Hawaii)	1,751	0.29	1,378	0.04	0.5	13.8	0	0	N		2002	2010	2017	
Sei whale (Hawaii)	391	0.90	204	0.04	0.1	0.4	0.2	0.2	S		2002	2010	2017	
Minke whale (Hawaii)	unk	unk	unk	0.04	0.5	undet	0	0	N		2002	2010	2013	
Humpback whale (American Samoa)	unk	unk	150	0.106	0.1	0.4	0	0	S	2006	2007	2008	2009	
Sea Otter (Southern)	2,826	n/a	2,723	0.06	0.1	8	≥0.8	≥0.8	S		2006	2007	2008	2008
Sea Otter (Washington)	n/a	n/a	1,125	0.2	0.1	11	≥0.2	≥0.2	N		2006	2007	2008	2008