

Table 7. Northern elephant seal, northern fur seal, Steller sea lion, Pacific harbor seal, and Guadalupe fur seal age/sex class and/or category totals counted from aerial photographs taken during surveys conducted at each of the Channel Islands in southern California in July and August 2016 – 2019.

Year	Island or Rock	Survey date	Live pups	Dead pups	Juveniles	Adult females	Young males	Sub-adult males	Adult males	Non-pup total	Total live
Northern elephant seal											
2016	Anacapa Island	2016-Jul-05	0		1	0	0	0	0	1	1
	San Clemente Island	2016-Jul-08	0		0	0	1	3	1	5	5
	San Miguel Island	2016-Jul-06	0		17	0	82	2,109	806	3,014	3,014
	San Nicolas Island	2016-Jul-05	0		9	0	48	1,092	173	1,322	1,322
	Santa Barbara Island	2016-Jul-05	0		0	0	2	7	1	10	10
	Santa Rosa Island	2016-Jul-06	0		9	0	56	883	312	1,260	1,260
	Channel Islands total		0		36	0	189	4,094	1,293	5,612	5,612
2017	Anacapa Island	2017-Jul-09	0		0	0	0	0	1	1	1
	San Clemente Island	2017-Jul-08	0		0	0	0	2	2	4	4
	San Miguel Island	2017-Jul-25	0		63	0	41	1,042	1,181	2,327	2,327
	San Nicolas Island	2017-Jul-08	0		11	0	172	690	349	1,222	1,222
	Santa Barbara Island	2017-Jul-08	0		0	0	0	4	3	7	7
	Santa Rosa Island	2017-Jul-09	0		8	0	50	642	469	1,169	1,169
	Channel Islands total		0		82	0	263	2,380	2,005	4,730	4,730
2018	San Clemente Island	2018-Jul-06	0		0	0	0	8	1	9	9
	San Miguel Island	2018-Aug-07	0		224	0	67	670	977	1,938	1,938
	San Nicolas Island	2018-Aug-07	0		50	0	20	243	311	624	624
	Santa Barbara Island	2018-Jul-07	0		0	0	2	1	0	3	3
	Santa Barbara Island ¹	2018-Aug-07	0		0	0	3	1	0	4	4
	Santa Rosa Island	2018-Aug-08	0		38	0	18	139	214	409	409
	Channel Islands total ¹		0		312	0	107	1,061	1,503	2,983	2,983
2019	San Clemente Island	2019-Jul-06	0		0	0	0	2	2	4	4
	San Miguel Island	2019-Jul-07	0		43	0	210	1,470	1,068	2,791	2,791
	San Nicolas Island	2019-Jul-08	0		18	0	72	712	383	1,185	1,185
	Santa Barbara Island ²	Estimate ²	0		0	0	1	4	1	6	6
	Santa Rosa Island	2019-Jul-09	0		7	0	57	510	441	1,015	1,015

Table 7. (Continued)

Year	Island or Rock	Survey date	Live pups	Dead pups	Juveniles	Adult females	Young males	Sub-adult males	Adult males	Non-pup total	Total live
Northern elephant seal											
2019	Channel Islands total ²		0		68	0	340	2,698	1,895	5,001	5,001
Northern fur seal											
2016	San Miguel Island	2016-Jul-06	2,297	46	38	1,822	347	519	199	2,925	5,222
2017	San Miguel Island	2017-Jul-25	2,605	226	29	883	213	361	429	1,915	4,520
2018	San Miguel Island	2018-Aug-07	2,291	189	44	1,156	257	162	170	1,789	4,080
2019	San Miguel Island	2019-Jul-07	1,951	25	48	1,583	100	242	453	2,426	4,377
Steller sea lion											
2019	Anacapa Island	2019-Jul-05	0	0	3	0	0	0	0	3	3
Pacific harbor seal											
2016	Anacapa Island	2016-Jul-05									76
	Richardson Rock	2016-Jul-06									1
	San Clemente Island	2016-Jul-08									26
	San Miguel Island	2016-Jul-06									702
	San Nicolas Island	2016-Jul-05									437
	Santa Barbara Island	2016-Jul-05									36
	Santa Cruz Island	2016-Jul-05									316
	Santa Rosa Island	2016-Jul-06									386
	Channel Islands total										1,980
2017	Anacapa Island	2017-Jul-09									25
	Richardson Rock	2017-Jul-25									4
	San Clemente Island	2017-Jul-08									71
	San Miguel Island	2017-Jul-25									230
	San Nicolas Island	2017-Jul-08									290
	Santa Barbara Island	2017-Jul-08									13
	Santa Cruz Island	2017-Jul-09									173
	Santa Rosa Island	2017-Jul-09									266
	Channel Islands total										1,072

Table 7. (Continued)

Year	Island or Rock	Survey date	Live pups	Dead pups	Juveniles	Adult females	Young males	Sub-adult males	Adult males	Non-pup total	Total live
Pacific harbor seal											
2018	Richardson Rock	2018-Aug-07									2
	San Clemente Island	2018-Jul-06									44
	San Miguel Island	2018-Aug-07									208
	San Nicolas Island	2018-Aug-07									52
	Santa Barbara Island	2018-Jul-07									10
	Santa Cruz Island	2018-Aug-08									86
	Santa Rosa Island	2018-Aug-08									41
	Channel Islands total										443
2019	Anacapa Island	2019-Jul-05									10
	San Clemente Island	2019-Jul-06									13
	San Miguel Island	2019-Jul-07									254
	San Nicolas Island	2019-Jul-08									190
	Santa Barbara Island ²	Estimate ²									20
	Santa Catalina Island	2019-Jul-06									8
	Santa Cruz Island	2019-Jul-09									107
	Santa Rosa Island	2019-Jul-09									148
	Channel Islands total ²										750
Guadalupe fur seal											
2019	San Nicolas Island	2019-Jul-08	0	0	0		1 ³		0	1	1

¹Santa Barbara Island: August 07 data was not included in Channel Islands total.

²Santa Barbara Island: 2019 Estimates for each northern elephant seal age/sex class and for Pacific harbor seal total live derived from mean of 2016 - 2018 data; Non-pup total and Total live are the sum of age/sex class estimates.

³For Guadalupe fur seals, unable to differentiate between adult females and young males.