



The focus of the survey is gray whales (northbound) during migration. We also record observations of all marine-mammal species, including harbor seals and southern sea otters. Of the species sighted, only gray whales (north and southbound) are migrating past the Point. Their tallies indicate the number of unique animals observed at each sighting. At the end of the day (and survey), we can add the numbers at sightings to total the northbound and southbound gray whales migrating past Counter Point during our observation.

Harbor seals and sea otters move about the area, coming and going, back and forth, diving and surfacing, feeding and resting. We may have more than one sighting of a particular otter over the day. Since we cannot differentiate, if we see an otter in the morning, then go about tracking Gray whales, and then sight an otter in the afternoon, we would not know if it was the same otter. There would be two sightings in the day, but we may have seen only one otter.

In this report, we are trying to determine an "at least" number of unique seals and otters. In the above example, we would enter an "at least" number of 1.

On another day, we might see three harbor seals resting in the kelp. Here, we know there is more than one: three at that particular sighting. If, later in the day, we sight a single seal swimming at the surface, we do not know if it is one of the three sighted earlier or a different one. We can't add the totals of the sightings together because that would indicate four distinct seals. If nothing changed beyond these two sightings, we would record an "at least" number of 3 harbor seals for the day.

2019 Daily "At least" Totals for harbor seals and sea otters, On-Effort

Date	Day of 99	Effort Hours	At least for day ...
Feb 13	Day 1 of 99	Effort Hours 0:00	At least for day ...
		harbor seals	0
		southern sea otters	0
Feb 14	Day 2 of 99	Effort Hours 0:00	At least for day ...
		harbor seals	0
		southern sea otters	0
Feb 15	Day 3 of 99	Effort Hours 0:00	At least for day ...
		harbor seals	0
		southern sea otters	0
Feb 16	Day 4 of 99	Effort Hours 1:47	At least for day ...
		harbor seals	0
		southern sea otters	0
Feb 17	Day 5 of 99	Effort Hours 0:00	At least for day ...
		harbor seals	0
		southern sea otters	0
Feb 18	Day 6 of 99	Effort Hours 8:00	At least for day ...
		harbor seals	0
		southern sea otters	0
Feb 19	Day 7 of 99	Effort Hours 0:00	At least for day ...
		harbor seals	0
		southern sea otters	0
Feb 20	Day 8 of 99	Effort Hours 1:35	At least for day ...
		harbor seals	1
		southern sea otters	0
Feb 21	Day 9 of 99	Effort Hours 2:30	At least for day ...
		harbor seals	1
		southern sea otters	0
Feb 22	Day 10 of 99	Effort Hours 8:00	At least for day ...
		harbor seals	1
		southern sea otters	0
Feb 23	Day 11 of 99	Effort Hours 8:01	At least for day ...
		harbor seals	2
		southern sea otters	0
Feb 24	Day 12 of 99	Effort Hours 7:20	At least for day ...
		harbor seals	1
		southern sea otters	0

2019 Daily "At least" Totals for harbor seals and sea otters, On-Effort

Feb 25	Day 13 of 99	Effort Hours 8:00	At least for day ...
		harbor seals	0
		southern sea otters	0
Feb 26	Day 14 of 99	Effort Hours 0:00	At least for day ...
		harbor seals	0
		southern sea otters	0
Feb 27	Day 15 of 99	Effort Hours 0:00	At least for day ...
		harbor seals	0
		southern sea otters	0
Feb 28	Day 16 of 99	Effort Hours 4:28	At least for day ...
		harbor seals	1
		southern sea otters	1
Mar 01	Day 17 of 99	Effort Hours 6:23	At least for day ...
		harbor seals	1
		southern sea otters	1
Mar 02	Day 18 of 99	Effort Hours 0:00	At least for day ...
		harbor seals	0
		southern sea otters	0
Mar 03	Day 19 of 99	Effort Hours 7:15	At least for day ...
		harbor seals	0
		southern sea otters	1
Mar 04	Day 20 of 99	Effort Hours 8:00	At least for day ...
		harbor seals	0
		southern sea otters	1
Mar 05	Day 21 of 99	Effort Hours 0:00	At least for day ...
		harbor seals	0
		southern sea otters	0
Mar 06	Day 22 of 99	Effort Hours 0:00	At least for day ...
		harbor seals	0
		southern sea otters	0
Mar 07	Day 23 of 99	Effort Hours 3:57	At least for day ...
		harbor seals	0
		southern sea otters	1
Mar 08	Day 24 of 99	Effort Hours 0:42	At least for day ...
		harbor seals	0
		southern sea otters	0

2019 Daily "At least" Totals for harbor seals and sea otters, On-Effort

Date	Day of Year	Effort Hours	At least for day ...
Mar 09	Day 25 of 99	Effort Hours 8:00	At least for day ...
		harbor seals	1
		southern sea otters	1
Mar 10	Day 26 of 99	Effort Hours 8:00	At least for day ...
		harbor seals	1
		southern sea otters	1
Mar 11	Day 27 of 99	Effort Hours 6:57	At least for day ...
		harbor seals	0
		southern sea otters	1
Mar 12	Day 28 of 99	Effort Hours 0:00	At least for day ...
		harbor seals	0
		southern sea otters	0
Mar 13	Day 29 of 99	Effort Hours 8:00	At least for day ...
		harbor seals	0
		southern sea otters	0
Mar 14	Day 30 of 99	Effort Hours 8:00	At least for day ...
		harbor seals	0
		southern sea otters	0
Mar 15	Day 31 of 99	Effort Hours 8:00	At least for day ...
		harbor seals	2
		southern sea otters	0
Mar 16	Day 32 of 99	Effort Hours 8:03	At least for day ...
		harbor seals	1
		southern sea otters	0
Mar 17	Day 33 of 99	Effort Hours 8:00	At least for day ...
		harbor seals	0
		southern sea otters	1
Mar 18	Day 34 of 99	Effort Hours 8:00	At least for day ...
		harbor seals	0
		southern sea otters	1
Mar 19	Day 35 of 99	Effort Hours 0:00	At least for day ...
		harbor seals	0
		southern sea otters	0
Mar 20	Day 36 of 99	Effort Hours 8:00	At least for day ...
		harbor seals	0
		southern sea otters	0

2019 Daily "At least" Totals for harbor seals and sea otters, On-Effort

Date	Day of 99	Effort Hours	At least for day ...
Mar 21	Day 37 of 99	6:00	
			harbor seals 1
			southern sea otters 0
Mar 22	Day 38 of 99	8:00	
			harbor seals 0
			southern sea otters 0
Mar 23	Day 39 of 99	6:24	
			harbor seals 0
			southern sea otters 1
Mar 24	Day 40 of 99	8:00	
			harbor seals 0
			southern sea otters 2
Mar 25	Day 41 of 99	8:00	
			harbor seals 0
			southern sea otters 2
Mar 26	Day 42 of 99	0:00	
			harbor seals 0
			southern sea otters 0
Mar 27	Day 43 of 99	0:00	
			harbor seals 0
			southern sea otters 0
Mar 28	Day 44 of 99	3:50	
			harbor seals 0
			southern sea otters 1
Mar 29	Day 45 of 99	5:37	
			harbor seals 1
			southern sea otters 0
Mar 30	Day 46 of 99	8:00	
			harbor seals 1
			southern sea otters 1
Mar 31	Day 47 of 99	7:57	
			harbor seals 1
			southern sea otters 0
Apr 01	Day 48 of 99	8:00	
			harbor seals 1
			southern sea otters 1

2019 Daily "At least" Totals for harbor seals and sea otters, On-Effort

Date	Day of Year	Effort Hours	At least for day ...
Apr 02	Day 49 of 99	Effort Hours 0:00	At least for day ...
		harbor seals	0
		southern sea otters	0
Apr 03	Day 50 of 99	Effort Hours 4:30	At least for day ...
		harbor seals	1
		southern sea otters	0
Apr 04	Day 51 of 99	Effort Hours 8:00	At least for day ...
		harbor seals	1
		southern sea otters	0
Apr 05	Day 52 of 99	Effort Hours 5:42	At least for day ...
		harbor seals	1
		southern sea otters	0
Apr 06	Day 53 of 99	Effort Hours 8:00	At least for day ...
		harbor seals	1
		southern sea otters	1
Apr 07	Day 54 of 99	Effort Hours 8:00	At least for day ...
		harbor seals	1
		southern sea otters	1
Apr 08	Day 55 of 99	Effort Hours 6:41	At least for day ...
		harbor seals	0
		southern sea otters	1
Apr 09	Day 56 of 99	Effort Hours 0:00	At least for day ...
		harbor seals	0
		southern sea otters	0
Apr 10	Day 57 of 99	Effort Hours 5:32	At least for day ...
		harbor seals	1
		southern sea otters	0
Apr 11	Day 58 of 99	Effort Hours 3:43	At least for day ...
		harbor seals	0
		southern sea otters	0
Apr 12	Day 59 of 99	Effort Hours 2:15	At least for day ...
		harbor seals	0
		southern sea otters	0
Apr 13	Day 60 of 99	Effort Hours 8:00	At least for day ...
		harbor seals	1
		southern sea otters	0

2019 Daily "At least" Totals for harbor seals and sea otters, On-Effort

Date	Day of 99	Effort Hours	At least for day ...	
Apr 14	Day 61 of 99	Effort Hours 5:26	At least for day ...	
			harbor seals	1
			southern sea otters	1
Apr 15	Day 62 of 99	Effort Hours 8:00	At least for day ...	
			harbor seals	1
			southern sea otters	1
Apr 16	Day 63 of 99	Effort Hours 0:00	At least for day ...	
			harbor seals	0
			southern sea otters	0
Apr 17	Day 64 of 99	Effort Hours 8:00	At least for day ...	
			harbor seals	1
			southern sea otters	0
Apr 18	Day 65 of 99	Effort Hours 8:00	At least for day ...	
			harbor seals	1
			southern sea otters	0
Apr 19	Day 66 of 99	Effort Hours 8:02	At least for day ...	
			harbor seals	0
			southern sea otters	0
Apr 20	Day 67 of 99	Effort Hours 8:00	At least for day ...	
			harbor seals	0
			southern sea otters	0
Apr 21	Day 68 of 99	Effort Hours 8:00	At least for day ...	
			harbor seals	0
			southern sea otters	0
Apr 22	Day 69 of 99	Effort Hours 8:00	At least for day ...	
			harbor seals	1
			southern sea otters	0
Apr 23	Day 70 of 99	Effort Hours 0:00	At least for day ...	
			harbor seals	0
			southern sea otters	0
Apr 24	Day 71 of 99	Effort Hours 7:00	At least for day ...	
			harbor seals	1
			southern sea otters	1
Apr 25	Day 72 of 99	Effort Hours 8:30	At least for day ...	
			harbor seals	1
			southern sea otters	1

2019 Daily "At least" Totals for harbor seals and sea otters, On-Effort

Date	Day of 99	Effort Hours	At least for day ...
Apr 26	Day 73 of 99	Effort Hours 8:12	At least for day ...
		harbor seals	1
		southern sea otters	2
Apr 27	Day 74 of 99	Effort Hours 8:00	At least for day ...
		harbor seals	2
		southern sea otters	1
Apr 28	Day 75 of 99	Effort Hours 8:00	At least for day ...
		harbor seals	1
		southern sea otters	2
Apr 29	Day 76 of 99	Effort Hours 8:00	At least for day ...
		harbor seals	1
		southern sea otters	1
Apr 30	Day 77 of 99	Effort Hours 0:00	At least for day ...
		harbor seals	0
		southern sea otters	0
May 01	Day 78 of 99	Effort Hours 8:00	At least for day ...
		harbor seals	1
		southern sea otters	0
May 02	Day 79 of 99	Effort Hours 8:00	At least for day ...
		harbor seals	2
		southern sea otters	0
May 03	Day 80 of 99	Effort Hours	At least for day ...
		harbor seals	4
		southern sea otters	0
May 04	Day 81 of 99	Effort Hours 8:00	At least for day ...
		harbor seals	1
		southern sea otters	0
May 05	Day 82 of 99	Effort Hours 8:00	At least for day ...
		harbor seals	1
		southern sea otters	0
May 06	Day 83 of 99	Effort Hours 6:01	At least for day ...
		harbor seals	1
		southern sea otters	0
May 07	Day 84 of 99	Effort Hours 0:00	At least for day ...
		harbor seals	0
		southern sea otters	0

2019 Daily "At least" Totals for harbor seals and sea otters, On-Effort

May 08	Day 85 of 99	Effort Hours 8:00	At least for day ...
		harbor seals	2
		southern sea otters	0
May 09	Day 86 of 99	Effort Hours 8:00	At least for day ...
		harbor seals	2
		southern sea otters	1
May 10	Day 87 of 99	Effort Hours 5:44	At least for day ...
		harbor seals	1
		southern sea otters	1
May 11	Day 88 of 99	Effort Hours 8:00	At least for day ...
		harbor seals	3
		southern sea otters	0
May 12	Day 89 of 99	Effort Hours 8:00	At least for day ...
		harbor seals	1
		southern sea otters	0
May 13	Day 90 of 99	Effort Hours 8:00	At least for day ...
		harbor seals	2
		southern sea otters	0
May 14	Day 91 of 99	Effort Hours 0:00	At least for day ...
		harbor seals	0
		southern sea otters	0
May 15	Day 92 of 99	Effort Hours 8:00	At least for day ...
		harbor seals	1
		southern sea otters	0
May 16	Day 93 of 99	Effort Hours 1:50	At least for day ...
		harbor seals	0
		southern sea otters	0
May 17	Day 94 of 99	Effort Hours 3:02	At least for day ...
		harbor seals	1
		southern sea otters	0
May 18	Day 95 of 99	Effort Hours 5:33	At least for day ...
		harbor seals	1
		southern sea otters	0
May 19	Day 96 of 99	Effort Hours 6:05	At least for day ...
		harbor seals	1
		southern sea otters	0

2019 Daily "At least" Totals for harbor seals and sea otters, On-Effort

May 20	Day 97 of 99	Effort Hours 0:00	At least for day ...
			harbor seals 0
			southern sea otters 0
May 21	Day 98 of 99	Effort Hours 0:00	At least for day ...
			harbor seals 0
			southern sea otters 0
May 22	Day 99 of 99	Effort Hours 0:00	At least for day ...
			harbor seals 0
			southern sea otters 0