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SOURCES OF HUMAN-RELATED INJURY AND MORTALITY FOR U.S. PACIFIC WEST COAST MARINE MAMMAL STOCK ASSESSMENTS, 2014-2018

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SOURCES OF HUMAN-RELATED INJURY AND MORTALITY FOR U.S. PACIFIC WEST COAST MARINE MAMMAL STOCK ASSESSMENTS, 2014-2018.

James V. Carretta¹, Blair Delean², Van Helker², Marcia M. Muto², Justin Greenman³, Kristin Wilkinson⁴, Dan Lawson³, Justin Viezbicke³, and Jason Jannot⁵

Summary

The Marine Mammal Protection Act (MMPA) requires the National Marine Fisheries Service (NMFS) to document human-caused mortality, non-serious injury (NSI), and serious injury (SI) of marine mammals, as part of marine mammal stock assessments and to evaluate human-caused injury and mortality levels in the context of potential biological removal (PBR) levels under the MMPA (Wade 1998). NMFS defines SI as “any injury that will likely result in mortality”. While documenting mortality is straightforward, distinguishing NSI from SI requires data on injury severity and animal condition, often from challenging environments where thorough examination of animals is not always possible. NMFS updated its SI designation and reporting process in 2012, using guidance from previous SI workshops (Angliss and DeMaster 1998, Andersen *et al.* 2008), expert opinion, and analysis of historical injury cases to develop new criteria for distinguishing SI from NSI (NMFS 2012a, 2012b; NOAA 2012; Moore *et al.* 2013).

This report contains human-caused injury and mortality records of pinnipeds and cetaceans that occur in U.S. west coast waters for the period 2014-2018, for those species evaluated in Pacific region marine mammal stock assessment reports (SARs) (Carretta *et al.* 2016a). Mortality records, while included in this report, were not a part of the SI/NSI status evaluation that included only live and/or injured animals. Subsistence and directed takes (i.e., gray whales taken by Russian natives) are not reported here but are reported in SARs published by NMFS. Previous serious injury and mortality records, including cases from 2007 through 2017, are published in previous reports (Carretta *et al.* 2013, 2014, 2015b, 2016b, 2017, 2018, 2019).

Sources of injury data include strandings, disentanglement networks, the public, researchers, and fishery observer programs. Stranding data include records of injured marine mammals at sea and ashore. Injury sources include, but are not limited to, vessel strikes, gillnet entanglement, pot and trap gear entanglement, shootings, marine debris entanglement, research-related injuries/deaths, hook and line fishery interactions, and entrapment in power plant water intakes. Most records originate from stranding networks in California, Oregon, and Washington, though a few Alaska records of Eastern North Pacific gray whales (*Eschrichtius robustus*) and northern elephant seals (*Mirounga angustirostris*) are included, because these populations are assessed in the Pacific region SARs. Other marine mammals, such as Steller sea lions (*Eumetopias jubatus*), occur in California, Oregon, and Washington waters, but they are assessed in Alaska region SARs (Muto *et al.* 2019) and are not included in this report. Injury determinations for Pacific region species/stocks in the central Pacific from Hawaii westward are also included in separate reports (Bradford 2018).

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Methods

The assessment of marine mammals for evidence of human-related injury or death requires application of systematic forensic protocols, combined with expertise in diagnosing trauma (Moore *et al.* 2013). Stranding network personnel may have varying regional standards for assessing causes of death and injury and thorough examination of carcasses or injured animals is not always possible. With respect to the uncertainties in determining whether injuries or deaths are human-related, we reviewed stranding records, including at-sea sightings, from NMFS West Coast and Alaska regional stranding networks. Those records with human-related causes of injury were evaluated using the SI/NSI criteria. Animals whose initial reporting condition was ‘dead’ were not evaluated for SI/NSI. Records of SI, NSI, and dead animals are included in Appendix 4 of this report. Different criteria for injury assessment are used for three taxonomic groups: *pinnipeds*, *large whales*, and *small cetaceans* (NMFS 2012b and Appendices 1-3). Injury determinations (excluding 673 records where an animal’s initial condition was ‘dead’) include 1,287 injury records from 2014-2018. Both *initial* and *final* injury determinations are given for each record. For example, a pinniped entangled in gillnet that is constricting or impeding movement is considered seriously injured. This animal may be captured, taken to a rehabilitation center, treated for injuries, and released back into the wild without serious injuries. In the context of categorizing commercial fisheries (based on levels of SI and mortality) for the NMFS List of Fisheries (LOF), this pinniped is considered *seriously injured*. This designation allows evaluation of fishery-specific risk to marine mammals, even though the pinniped was released back into the wild with non-serious injuries. Similar cases involve large whales entangled in fishing gear and subsequent disentanglement efforts. The whale’s injuries may initially be considered serious, especially if the entanglement restricts movement. Successful disentanglement of all gear from a whale without lingering evidence of an entanglement-related health decline or SI may be designated as a NSI. For purposes of the LOF, *initial* injury assessments are used in evaluating individual fisheries. In the context of assessing SI and mortality against PBR levels, the *final* injury assessment or condition is used. In cases where injured pinnipeds are transferred to public display facilities (aquaria) or U.S. Navy marine mammal programs following treatment, because their survival in the wild is questionable, the final injury determination is termed ‘*captivity*’, as the animal is permanently removed from the wild population. This is equivalent to a SI for the purposes of evaluating injuries against PBR.

Most records contain a single anthropogenic source as the cause of injury or death, but animals may show signs of trauma from multiple sources. For example, pinnipeds may be entangled in gillnets and also show evidence of gunshot wounds. Where multiple causes of injury or death are reported by stranding coordinators we make an attempt to identify and categorize the primary cause of death for this report.

Prorating of serious injuries (large whales only)

Large whales offer the opportunity to track outcomes of human-caused injuries, due to the ability to recognize individuals over time. In addition to ‘NSI’ and ‘SI’ categories, a third category of prorated serious injury (‘SI prorated’) is used for large whales. Prorated SI categories are determined from large whale records where the outcome of the injury is known, based on a review of historical large whale injury cases (NMFS 2012b). For example, 25 vessel-strike cases involving large whales with known outcomes were reviewed and 13 (52%) resulted in a decline in health status or death of the animal (NMFS 2012b). These data are used to inform decision-making on current vessel-strike lacerations where the severity of the laceration (‘superficial’ versus ‘deep’) is

unknown and the vessel's size and speed are unknown. For these cases, SI is prorated by 0.52 to reflect the known outcomes of the 25 cases with vessel-strike lacerations. For cases with sufficient vessel-strike injury details, other SI codes are applied. If a vessel-strike laceration is superficial and does not extend below the blubber layer, this is considered a NSI. If the laceration extends below the blubber layer ('deep'), the whale is considered seriously injured (equivalent to a SI prorate value of 1.0). An example of calculating annual human-caused SI and mortality for large whales as part of the SAR process might include 10 documented vessel-strike lacerations of large whales of unknown severity, where the vessel's size and speed are unknown. Ten large whales with lacerations of unknown severity are counted as $10 \times 0.52 = 5.2$ cases of SI. If one of these cases were confirmed as a deep laceration, then the calculation would be $9 \times 0.52 = 4.7 + 1.0 = 5.7$ cases of SI.

Results

From 2014-2018, a total of 1,960 human-related injury (n=1,287) and mortality (n=673) records are summarized by anthropogenic source in Figure 1, Table 1, and Appendix 4. Approximately 70% of all records represent opportunistic reports of beach strandings and at-sea sightings, while the remaining 30% of records represent systematic/monitored observations, either fishery observer programs (n=363), monitored research-related activities (n=36), or authorized removals of pinnipeds from Bonneville Dam and Willamette Falls under MMPA Section 120 (n=149). Pinnipeds (n=1,515) were the most commonly documented injured or killed taxon due to human-related activities, followed by large whales (n=292) and small cetaceans (n=153) (Tables 2-6). Animals initially encountered alive accounted for 1,287 records, which were evaluated and assigned SI/NSI determinations, including 1,036 pinnipeds, 244 large whales, and 7 small cetaceans (Appendix 4, Tables 7a-c).

The primary causes of pinniped injury and mortality were hook and line fishery interactions (n=286), shootings (n=195), authorized removals under MMPA Section 120 (n=149), oiled animals (n=134), harassment (n=129), and marine debris entanglements (n=123) (Tables 3 and 6, Appendix 4). Pinniped injury and mortality records included California sea lions (*Zalophus californianus*) (n=1,102), harbor seals (*Phoca vitulina*) (n=266), northern elephant seals (*Mirounga angustirostris*) (n=91), Guadalupe fur seals (*Arctocephalus townsendi*) (n=29), northern fur seals (*Callorhinus ursinus*) (n=12), unidentified pinnipeds (n=11), and unidentified otariids (n=4) (Table 2). Many pinniped cases involve human intervention and treatment, either in the field or through capture and care at a rehabilitation facility. For those pinnipeds treated at rehabilitation facilities and subsequently released, it is assumed that they survived following treatment and their final injury assessments were NSI. An exception to this involves dependent pups that are released alone post-treatment, which are still considered to be serious injuries. Pinniped records lacking detail regarding whether the animal was released following rehabilitation facility care were determined to be seriously injured. Some pinnipeds were treated and released on site, and their final injury status was case-specific. A number of pinnipeds were euthanized as a result of their injuries (n=148), while others were sent to public display facilities (n=11) because their existing post-treatment condition made survival in the wild unlikely or they were individuals targeted for removal to protect endangered salmon. Of the 1,515 pinniped injury and mortality records, 880 (58%) animals died as a result of their injuries. An additional 317 (21%) pinniped cases were assigned as serious injuries, likely to result in death. Increasing numbers of pinniped strandings in recent years have stretched the resources of rehabilitation facilities on the U.S. west coast and have limited the ability to track the outcome of every pinniped injury case.

Of the 292 large whale records of human-caused injuries and mortalities, 50 whales were initially reported as dead and the remaining 244 were assessed for NSI/SI (Appendix 4, Tables 2, 4, and 7b). The 50 large whale records involving animals found dead were represented by vessel strikes (n= 26), fishery-related entanglements (n= 21), entanglement in marine debris (n=1), illegal hunts (n=1), and one shooting record. Of the 244 large whales evaluated for NSI/SI, fishery-related entanglements (n= 226) were the most common cause of injury, followed by vessel strikes (n=14) and entanglement in marine debris (n=3). Large whale injury and mortality cases involved humpback whales (*Megaptera novaeangliae*, n=177), followed by gray whales (n=66), unidentified large whales (n=22), blue whales (*B. musculus*, n=12), fin whales (*Balaenoptera physalus*, n=11), minke whale (*B. acutorostrata*, n=2), Blainville's beaked whale (*Mesoplodon densirostris*, n=1), and Baird's beaked whale (*Berardius bairdii*, n=1). Previous editions of this report included a sei whale vessel strike record. That record is now omitted after review of the stranding narrative which indicated that a lack of hemorrhaging in the whale's tissues supported a post-mortem vessel strike.

Humpback whale injuries and mortality were most often reported from entanglements in pot/trap fisheries (n=87), followed by unidentified fishing gear (n=64), vessel strikes (n=13), and gillnet fisheries (n=8) (Appendix 4). Many humpback whale records involving unidentified fishing gear are likely to represent pot/trap fisheries, because they are the most commonly-identified source of entanglement for the species. Only 8 records of humpback gillnet entanglements were reported during this period, compared with 13 records for gray whales. Relatively few gillnet entanglements are reported for humpback whales compared with gray whales (Carretta *et al.* 2013, 2014, 2015b, 2016b, 2019). This may reflect multiple factors, including seasonal and spatial distribution differences between the two species along the U.S. west coast. The number of gillnets fished along the California coast is greatest in nearshore waters that overlap with the annual gray whale migration. Another factor may simply be that gray whales are nearly 10 times more abundant than humpback whales in this region, so one might expect greater numbers of gillnet interactions.

Gray whales were most commonly observed entangled in unidentified fishing gear (n=21), followed by entangling net fisheries (n=16), pot/trap fisheries (n=14) and marine debris (n=2) (Appendix 4). Many of the unidentified fishing gear cases involving gray whales were likely pot/trap fisheries or entangling net fisheries, based on the percentages of known gear type records involving gray whales. In addition to entanglements, gray whales were killed or injured by vessel strikes (n=12) and one illegal hunt in 2017 (Appendix 4).

Approximately one-quarter (59/244) of large whale injury cases involved human intervention to remove gear. The relatively low percentage of rescue attempts reflects that many entangled whales are seen only once and that adverse weather conditions often prohibit safe disentanglement attempts. Fourteen large whale records initially designated as SI resulted in a final injury status of NSI, the result of successful disentanglement efforts or the animal freeing itself of gear over time (Table 7b). Sixty large whale records with initial SI designations retained final injury designations of SI and 7 whales were later found dead (Table 7b).

A total of 153 small cetacean records were reviewed but were rarely assessed for SI (n=7) because most were initially reported as dead (n=146). Mortality in gillnets, trawls, and unidentified fisheries accounted for >90% of small cetacean records, and approximately 45% of small cetacean records (n=70) were derived from systematic observer programs or monitored activities. Research-related entanglements of small cetaceans in scientific trawls or nets accounted for 22 records: all were Pacific white-sided dolphins (*Lagenorhynchus obliquidens*). Of the 22 Pacific white-sided

dolphin involved in scientific trawl operations, 21 were killed, and 1 was seriously-injured. Small cetaceans assessed for injury severity included long-beaked common dolphins (*Delphinus capensis*) (n=2), Pacific white-sided dolphin (n=1), striped dolphin (n=1), unidentified dolphin (n=1), unidentified common dolphin (*Delphinus* sp.) and harbor porpoise (*Phocoena phocoena*) (n=1). (Table 2). Of the 7 small cetacean records assessed for injuries, 4 animals died, and 3 were determined to be serious injuries (Table 7c).

Discussion

Most records of human-related injuries and deaths to marine mammals represent opportunistic reports obtained from strandings and at-sea sightings. Stranding data should be considered as a minimum count of human-related injury and mortality because not all carcasses come ashore or are detected. Where evaluated, estimates of recovery rates of cetacean carcasses are consistently quite low (<1% to 33%) across different regions and species, highlighting that observed numbers underestimate true impacts (Kraus *et al.* 2005, Williams *et al.* 2011, Prado *et al.* 2013), even for extremely coastal species (Wells *et al.* 2015, Carretta *et al.* 2016c). Not all human-related impacts are represented in this report, such as military sonars and other anthropogenic sounds that may impact beaked whales and whose effects would be difficult to recognize unless affected animals stranded (Cox *et al.* 2006).

Variability in the assessment and determination of human-related injuries and mortality by responder or region is an unavoidable situation because regional data-recording standards may differ and the ability to thoroughly examine animals may be compromised by weather or accessibility to carcasses (Moore *et al.* 2013). We have made an effort to review only records that have unequivocal or probable human-related impacts and recognize that some cases may be missed because of a failure to recognize human-caused injuries and deaths.

Some serious injuries and deaths attributed to marine debris involve derelict fishing gear that cannot be linked to a specific fishery. In some cases, fishing gear originates from outside of U.S. waters (for example, three northern fur seals were found dead in netting of Chinese origin in 2009, Carretta *et al.* 2014). Impacts of commercial gillnet, pot, and trap fisheries are likely greater than the number of observations because derelict gear may entangle new animals for long periods. Explicit examples include ghost netting that contained harbor seal carcasses of varying states of decomposition, evidence that the net had entangled animals over a long time period (Carretta *et al.* 2013, 2014, 2015b, 2016b).

A small percentage of pinnipeds died after an initial injury assessment of NSI. Nearly all of these animals died during treatment in rehabilitation facilities, with hook-related injuries that appeared superficial (hooks in flippers and/or lip). Post-mortem examinations often revealed causes of death that were unrelated to the visible injury. For example, a California sea lion with a hook in its back was found during necropsy to have sharp fragments of plastic in its stomach. Other cases involved bullets found post-mortem or hooks in the esophagus/stomach, which were not suspected during the initial external examination.

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Figure 1. Leading causes of human-caused serious injury and mortality of marine mammals summarized in this report, 2014-2018.

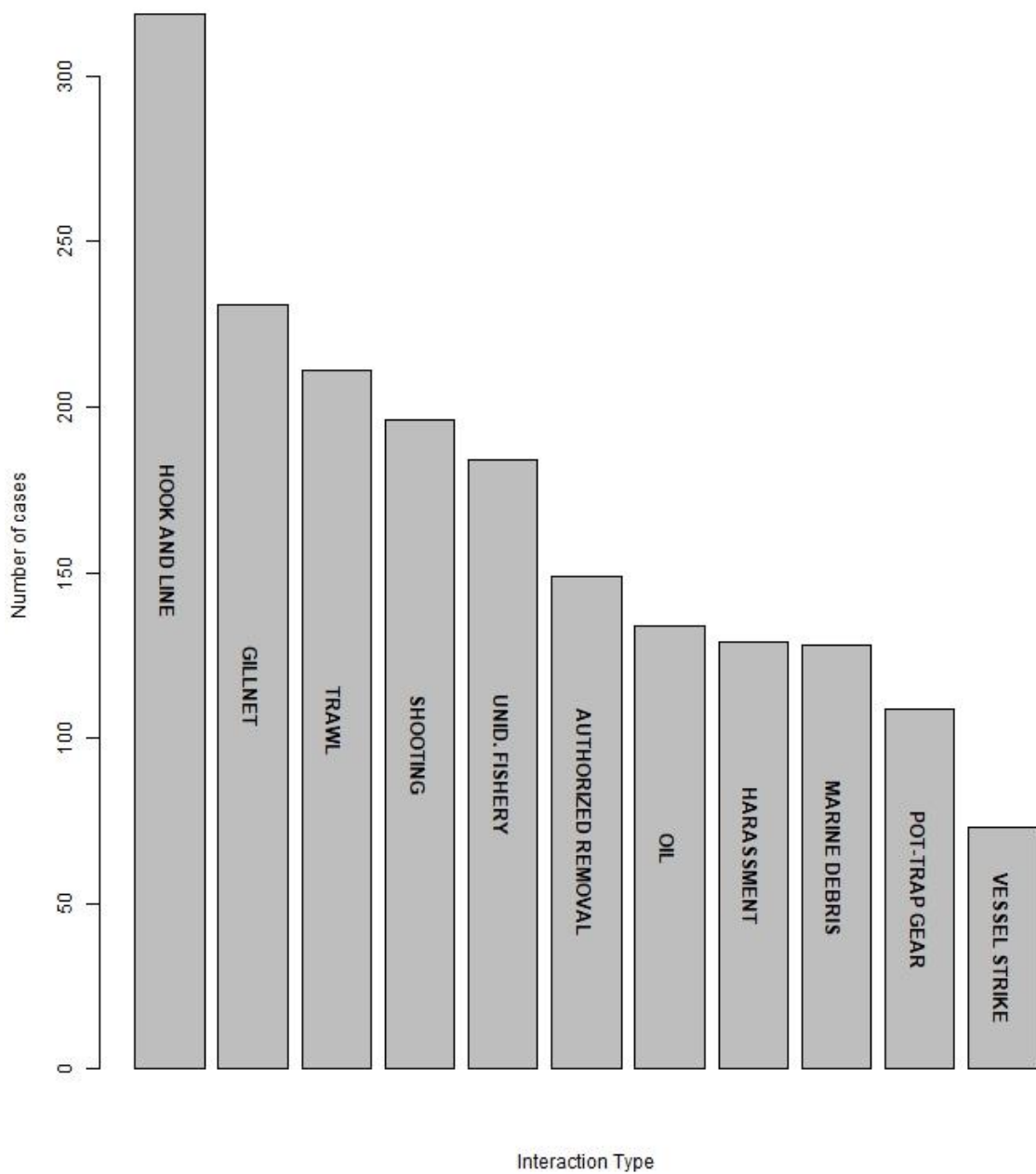


Table 1 (page 1 of 2). Sources of human-caused injury and mortality to marine mammals, 2014–2018.

SOURCE OF HUMAN-CAUSED SERIOUS INJURY OR MORTALITY	NUMBER	CUMULATIVE PERCENT OF TOTAL
HOOK AND LINE FISHERY	289	15
SHOOTING	196	25
UNIDENTIFIED FISHERY INTERACTION	184	34
AUTHORIZED REMOVAL	149	42
GILLNET FISHERY	148	49
OIL / TAR	134	56
HARASSMENT	129	63
MARINE DEBRIS	128	69
CATCHER PROCESSOR MIDWATER TRAWL	104	75
VESSEL STRIKE	73	78
CATCH SHARES BOTTOM TRAWL	51	81
CA SWORDFISH DRIFT GILLNET FISHERY	49	83
DUNGENESS CRAB POT FISHERY (CALIFORNIA)	45	86
SCIENTIFIC RESEARCH	36	88
CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	29	89
UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	29	90
OPEN ACCESS CA HALIBUT BOTTOM TRAWL	27	92
MS CATCHER VESSELS MIDWATER TRAWL	20	93
LIMITED ENTRY SABLEFISH HOOK AND LINE	13	94
CATCH SHARES HOOK AND LINE	12	94
DOG ATTACK	12	95
HAWAII LONGLINE SHALLOW SET FISHERY	11	95
CA SPOT PRAWN TRAP FISHERY	10	96
DUNGENESS CRAB POT FISHERY (WASHINGTON)	10	96
UNIDENTIFIED HUMAN INTERACTION	10	97
UNIDENTIFIED NET FISHERY	10	97
VEHICLE COLLISION	6	98
DUNGENESS CRAB POT FISHERY (OREGON)	4	98

Table 1 (page 2 of 2). Sources of human-caused injury and mortality to marine mammals, 2014–2018.

SOURCE OF HUMAN-CAUSED SERIOUS INJURY OR MORTALITY	NUMBER	CUMULATIVE PERCENT OF TOTAL
HOOK & LINE FISHERY	4	98
ENTRAPMENT	3	98
GILLNET FISHERY (TRIBAL)	3	98
TRAWL FISHERY (UNKNOWN)	3	99
WA/OR/CA SABLEFISH POT FISHERY	3	99
BLUNT FORCE TRAUMA	2	99
DUNGENESS CRAB POT FISHERY (RECREATIONAL)	2	99
RIDGEBACK PRAWN BOTTOM TRAWL	2	99
AT-SEA HAKE PELAGIC TRAWL	1	99
BERING SEA AND ALEUTIAN ISLANDS ATKA MACKEREL TRAWL	1	99
DUNGENESS CRAB POT FISHERY	1	99
DUNGENESS CRAB POT FISHERY (COMMERCIAL)	1	99
DUNGENESS CRAB POT WASHINGTON TRIBAL	1	99
GAFF INJURY	1	99
GULF OF ALASKA PACIFIC COD LONGLINE	1	99
GULF OF ALASKA SABLEFISH LONGLINE	1	99
ILLEGAL HUNT	1	99
LOBSTER TRAP ENTANGLEMENT	1	99
MIDWATER TRAWL ROCKFISH EM	1	100
NEARSHORE HOOK AND LINE	1	100
POWER PLANT ENTRAINMENT	1	100
SALMON GILLNET FISHERY	1	100
SEAL BOMB	1	100
SET GILLNET FISHERY INTERACTION	1	100
SHORESIDE HAKE MIDWATER TRAWL	1	100
SPEARING	1	100
SPOT PRAWN TRAP/POT FISHERY (RECREATIONAL)	1	100
WA/OR/CA SABLEFISH POT FISHERY AND CA/OR COONSTRIPE SHRIMP POT	1	100

Table 2. Final serious injury and mortality designations by species, 2014–2018.

	CAPTIVITY	DEAD	NSI	SI	SI (PRORATE)
<i>BAIRD'S BEAKED WHALE</i>	0	1	0	0	0
<i>BLAINVILLE'S BEAKED WHALE</i>	0	1	0	0	0
<i>BLUE WHALE</i>	0	3	0	2	7
<i>BOTTLENOSE DOLPHIN</i>	0	1	0	0	0
<i>CALIFORNIA SEA LION</i>	11	658	255	178	0
<i>COMMON DOLPHIN, LONG-BEAKED</i>	0	28	0	0	0
<i>COMMON DOLPHIN, SHORT-BEAKED</i>	0	32	0	0	0
<i>COMMON DOLPHIN, UNIDENTIFIED</i>	0	0	0	1	0
<i>DALL'S PORPOISE</i>	0	2	0	0	0
<i>FIN WHALE</i>	0	8	0	3	0
<i>GRAY WHALE</i>	0	19	3	13	31
<i>GUADALUPE FUR SEAL</i>	0	16	7	6	0
<i>HARBOR PORPOISE</i>	0	44	0	0	0
<i>HARBOR SEAL</i>	0	164	24	75	0
<i>HUMPBACK WHALE</i>	0	20	30	42	85
<i>MINKE WHALE</i>	0	2	0	0	0
<i>NORTHERN ELEPHANT SEAL</i>	0	32	24	35	0
<i>NORTHERN FUR SEAL</i>	0	8	2	2	0
<i>NORTHERN RIGHT WHALE DOLPHIN</i>	0	5	0	0	0
<i>PACIFIC WHITE-SIDED DOLPHIN</i>	0	28	0	1	0
<i>RISSO'S DOLPHIN</i>	0	1	0	0	0
<i>SHORT-FINNED PILOT WHALE</i>	0	2	0	0	0
<i>STRIPED DOLPHIN</i>	0	5	0	0	0
<i>UNIDENTIFIED DOLPHIN</i>	0	2	0	1	0
<i>UNIDENTIFIED OTARIID</i>	0	1	0	3	0
<i>UNIDENTIFIED PINNIPED</i>	0	1	7	3	0
<i>UNIDENTIFIED WHALE</i>	0	1	0	1	20

Table 3 (page 1 of 2). Sources of human-caused injury and mortality of pinnipeds, 2014–2018.

SOURCE OF HUMAN-CAUSED SERIOUS INJURY OR MORTALITY	NUMBER	CUMULATIVE PERCENT OF TOTAL
HOOK AND LINE FISHERY	286	19
SHOOTING	195	32
AUTHORIZED REMOVAL	149	42
OIL / TAR	134	50
HARASSMENT	129	59
MARINE DEBRIS	123	67
CATCHER PROCESSOR MIDWATER TRAWL	101	74
GILLNET FISHERY	95	80
CATCH SHARES BOTTOM TRAWL	47	83
UNIDENTIFIED FISHERY INTERACTION	39	86
VESSEL STRIKE	30	88
OPEN ACCESS CA HALIBUT BOTTOM TRAWL	27	89
CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	24	91
MS CATCHER VESSELS MIDWATER TRAWL	20	92
LIMITED ENTRY SABLEFISH HOOK AND LINE	13	93
SCIENTIFIC RESEARCH	13	94
CATCH SHARES HOOK AND LINE	12	95
DOG ATTACK	12	96
CA SWORDFISH DRIFT GILLNET FISHERY	11	96
HAWAII LONGLINE SHALLOW SET FISHERY	11	97

Table 3 (page 2 of 2). Sources of human-caused injury and mortality of pinnipeds, 2014–2018.

SOURCE OF HUMAN-CAUSED SERIOUS INJURY OR MORTALITY	NUMBER	CUMULATIVE PERCENT OF TOTAL
UNIDENTIFIED HUMAN INTERACTION	10	98
VEHICLE COLLISION	6	98
HOOK & LINE FISHERY	4	98
ENTRAPMENT	3	99
TRAWL FISHERY (UNKNOWN)	3	99
BLUNT FORCE TRAUMA	2	99
RIDGEBACK PRAWN BOTTOM TRAWL	2	99
AT-SEA HAKE PELAGIC TRAWL	1	99
BERING SEA AND ALEUTIAN ISLANDS ATKA MACKEREL TRAWL	1	99
GAFF INJURY	1	99
GULF OF ALASKA PACIFIC COD LONGLINE	1	99
GULF OF ALASKA SABLEFISH LONGLINE	1	99
MIDWATER TRAWL ROCKFISH EM	1	99
NEARSHORE HOOK AND LINE	1	100
POWER PLANT ENTRAINMENT	1	100
SEAL BOMB	1	100
SET GILLNET FISHERY INTERACTION	1	100
SHORESIDE HAKE MIDWATER TRAWL	1	100
SPEARING	1	100
UNIDENTIFIED NET FISHERY	1	100
UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	1	100

Table 4. Sources of human-caused injury and mortality of large whales, 2014–2018.

SOURCE OF HUMAN-CAUSED SERIOUS INJURY OR MORTALITY	NUMBER	CUMULATIVE PERCENT OF TOTAL
UNIDENTIFIED FISHERY INTERACTION	110	38
DUNGENESS CRAB POT FISHERY (CALIFORNIA)	45	53
VESSEL STRIKE	40	67
UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	28	76
GILLNET FISHERY	23	84
DUNGENESS CRAB POT FISHERY (WASHINGTON)	10	88
CA SPOT PRAWN TRAP FISHERY	8	90
DUNGENESS CRAB POT FISHERY (OREGON)	4	92
MARINE DEBRIS	4	93
GILLNET FISHERY (TRIBAL)	3	94
WA/OR/CA SABLEFISH POT FISHERY	3	95
DUNGENESS CRAB POT FISHERY (RECREATIONAL)	2	96
CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	1	96
CA SWORDFISH DRIFT GILLNET FISHERY	1	97
DUNGENESS CRAB POT FISHERY	1	97
DUNGENESS CRAB POT FISHERY (COMMERCIAL)	1	97
DUNGENESS CRAB POT WASHINGTON TRIBAL	1	98
ILLEGAL HUNT	1	98
LOBSTER TRAP ENTANGLEMENT	1	98
SALMON GILLNET FISHERY	1	99
SCIENTIFIC RESEARCH	1	99
SHOOTING	1	99
SPOT PRAWN TRAP/POT FISHERY (RECREATIONAL)	1	100
WA/OR/CA SABLEFISH POT FISHERY AND CA/OR COONSTRIPE SHRIMP POT	1	100

Table 5. Sources of human-caused injury and mortality of small cetaceans, 2014–2018.

SOURCE OF HUMAN-CAUSED SERIOUS INJURY OR MORTALITY	NUMBER	CUMULATIVE PERCENT OF TOTAL
CA SWORDFISH DRIFT GILLNET FISHERY	37	24
UNIDENTIFIED FISHERY INTERACTION	35	47
GILLNET FISHERY	30	67
SCIENTIFIC RESEARCH	22	81
UNIDENTIFIED NET FISHERY	9	87
CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	4	90
CATCH SHARES BOTTOM TRAWL	4	92
CATCHER PROCESSOR MIDWATER TRAWL	3	94
HOOK AND LINE FISHERY	3	96
VESSEL STRIKE	3	98
CA SPOT PRAWN TRAP FISHERY	2	99
MARINE DEBRIS	1	100

Table 6. Leading causes of observed human-caused injury and mortality by species, 2014–2018.

SPECIES	SOURCE OF INJURY/MORTALITY	NUMBER OF RECORDS
BAIRD'S BEAKED WHALE	VESSEL STRIKE	1
BLAINVILLE'S BEAKED WHALE	GILLNET FISHERY	1
BLUE WHALE	UNIDENTIFIED FISHERY INTERACTION	5
BOTTLENOSE DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	1
CALIFORNIA SEA LION	HOOK AND LINE FISHERY	271
COMMON DOLPHIN, LONG-BEAKED	GILLNET FISHERY	11
COMMON DOLPHIN, SHORT-BEAKED	CA SWORDFISH DRIFT GILLNET FISHERY	28
COMMON DOLPHIN, UNIDENTIFIED	MARINE DEBRIS	1
DALL'S PORPOISE	CA SWORDFISH DRIFT GILLNET FISHERY	1
FIN WHALE	VESSEL STRIKE	8
GRAY WHALE	UNIDENTIFIED FISHERY INTERACTION	21
GUADALUPE FUR SEAL	MARINE DEBRIS	15
HARBOR PORPOISE	UNIDENTIFIED FISHERY INTERACTION	24
HARBOR SEAL	HARASSMENT	105
HUMPBACK WHALE	UNIDENTIFIED FISHERY INTERACTION	64
MINKE WHALE	MARINE DEBRIS	1
NORTHERN ELEPHANT SEAL	OIL / TAR	35
NORTHERN FUR SEAL	TRAWL FISHERY (UNKNOWN)	3
NORTHERN RIGHT WHALE DOLPHIN	CA SWORDFISH DRIFT GILLNET FISHERY	3
PACIFIC WHITE-SIDED DOLPHIN	SCIENTIFIC RESEARCH	22
RISSE'S DOLPHIN	GILLNET FISHERY	1
SHORT-FINNED PILOT WHALE	CA SWORDFISH DRIFT GILLNET FISHERY	2
STRIPED DOLPHIN	GILLNET FISHERY	3
UNIDENTIFIED DOLPHIN	CA SPOT PRAWN TRAP FISHERY	1
UNIDENTIFIED OTARIID	HAWAII LONGLINE SHALLOW SET FISHERY	3
UNIDENTIFIED PINNIPED	CATCHER PROCESSOR MIDWATER TRAWL	7
UNIDENTIFIED WHALE	UNIDENTIFIED FISHERY INTERACTION	17

Table 7a. Matrix of initial (rows) and final (columns) injury determinations for pinnipeds. NSI=non-serious injury, SI=serious injury. Records with initial determinations of 'ALIVE' include individual California sea lions targeted for removal at Willamette Falls and Bonneville Dam to protect endangered salmon under authority of the MMPA Section 120.

	CAPTIVITY	DEAD	NSI	SI
ALIVE	2	147	0	0
NSI	1	18	121	27
SI	8	239	197	276

Table 7b. Matrix of initial (rows) and final (columns) injury determinations for large whales. NSI=non-serious injury, SI=serious injury.

	DEAD	NSI	SI	SI (PRORATE)
NSI	0	13	0	0
SI	7	14	60	2
SI (PRORATE)	0	6	1	141

Table 7c. Matrix of initial (rows) and final (columns) injury determinations for small cetaceans. NSI=non-serious injury, SI=serious injury.

	DEAD	NSI	SI
ALIVE	0	0	0
NSI	0	0	0
SI	4	0	3

Appendix 1. Pinniped Injury Criteria (NOAA 2012)

Summary of Pinniped¹ Injury Categories and Criteria

Instructions: Each pinniped injury event is recorded to the appropriate injury/information category using all available information and scientific judgment, as described in the Procedural Directive. For a single injury event to which several categories apply, the injury determination with the highest level of severity is assigned. More detailed information or extended observation on an individual case/animal may justify a determination differing from the guidance of this table. Any injury leading to apparent significant health decline (e.g., skin discoloration, fat loss) is a serious injury.			
Category	Injury/Information	Injury Determination ²	Additional factors for evaluating whether “case specific” injuries are serious or non-serious (additional factors at end of table) *
P1	A free-swimming animal observed at a date later than its human interaction, exhibiting signs of declining health believed to be resulting from initial injury (e.g., a marked change in body condition, tissue necrosis, emaciation, gangrene).	SI ³	
P2	Ingested gear ⁴ or hook(s)	SI	
P3	Visible blood loss	Case specific ⁵	Amount of blood, location of the bleeding injury, duration of bleeding
P4	Animal brought on vessel deck following entanglement/entrapment (excluding scientific research targeting marine mammals and authorized as such under a NMFS scientific research permit, where the animal is brought on and placed on the vessel deck in a controlled manner)	Case specific	Manner in which animal is brought on deck, length of time animal is on deck, environmental conditions (e.g., temperature)
P5a	Hook(s) in mouth (excluding criterion P5b), regardless of the presence of gear	SI	
P5b	Hook(s) confirmed in head (excluding criterion P5a), or in lip only (external tissue outside of teeth), no trailing gear	Case specific	Location on head (e.g., eye), depth of penetration, type of hook, prolonged restraint or struggle that could lead to capture myopathy, size of hook, impairing ability to feed
P5c	Hook(s) in any body part, but hook(s) is removed or pulls out	Case specific	Prolonged restraint or struggle that could lead to capture myopathy, location of hooking on the body, depth of hook, hook pulls out cleanly vs. causes further injury during dehooking, method used to remove hook, length of time hooked

¹ For the purposes of this table, pinnipeds include all pinniped species except walrus.

² This table includes only those criteria determined to be serious injuries or case specific based on expert opinion at the 2007 Workshop (Andersen *et al.*, 2008) and by pinniped experts on the NMFS Determination Staff working group. For the purposes of streamlining the information for the reader, criteria determined to be non-serious injuries are not included in this table.

³ SI = serious injury.

⁴ For the purposes of this table, gear is defined as any portion of fishing gear excluding the hook, which is considered separately. Lures are considered gear. Gear also generally refers to any type of debris entangling or attached to the animal.

⁵ Case specific = Could be a serious or non-serious injury, but either 1) there insufficient information about the impact of a particular injury, or 2) additional factors must be considered on a case-by-case basis to determine the severity.

Appendix 1. Pinniped Injury Criteria (NOAA 2012)

P5d	Hook(s) in appendage or body (excluding criteria P5a-c and P12), without trailing gear or with trailing gear that does not have the potential ⁶ to: 1) become a constricting wrap on animal; 2) be ingested, 3) accumulate drag; or 4) become snagged on something in the environment, anchoring the animal	NSI ⁷	
P6	Gear attached in any manner to free-swimming animal with potential ⁸ to: 1) become a constricting wrap on animal; 2) be ingested; 3) accumulate drag; or 4) become snagged on something in the environment, anchoring the animal	SI	
P7a	Anchored/immobilized and not freed	SI	
P7b	Anchored, immobilized, or entangled before being freed without gear attached	Case specific	Duration of entanglement, prolonged restraint or struggle that could lead to capture myopathy, type of fishing gear, where/how gear immobilized animal, associated injury (where directly or indirectly caused by initial entanglement), response of individual
P8a	Gear wrapped and constricting any body part or likely to become constricting as the animal moves or grows	SI	
P8b	Gear wrapped loosely on any body part	Case specific	Type and amount of fishing gear, animal body size relative to gear (species, age), effect on movement, species sensitivity
P9	Body trauma ⁹ not covered by any other criteria	Case specific	Location of trauma on body, depth (superficial or to the bone, penetrating muscle or organs) length of laceration(s), number of lacerations, cleanliness (compression vs. tearing), amount and duration of blood loss, risk of infection or disease transmission (e.g., dog bites)
P10	Visible fracture(s), excluding broken appendages (see criterion P13 for broken appendages)	SI	
P11	Vertebral transection or fully severed flipper(s)	SI	
P12	Body cavity penetration ¹⁰ by foreign object or body cavity exposure	SI	

⁶ For the purposes of this table, potential as it relates to criterion P5d indicates that the trailing gear IS NOT capable of leading to any of the situations listed.

⁷ NSI = non-serious injury.

⁸ For the purposes of this table, potential as it relates to criterion P6 indicates that the trailing gear IS capable of leading to any of the situations listed.

⁹ For the purposes of this table, "trauma" is defined as a wound or bodily harm caused by an extrinsic agent. Blunt trauma is an injury (abrasion, laceration, contusion or skeletal fracture) produced by a blunt object striking the body or impact of the body against a blunt object or surface. Sharp force trauma is an injury caused by a sharp or pointed object or a bullet from a gunshot creating a penetrating (stab, chop or incision) wound. Laceration is defined as a ragged incision or a tearing of the skin. Lacerations are caused by blunt trauma that results in stretching, tearing, crushing, shearing, or avulsion of the tissue.

¹⁰ For the purposes of this table, "penetration" is defined as a wound occurring when a foreign object punctures the body, such as a bullet from a gunshot. Penetrating wounds can be characterized as one of three types: stab (small external wound that is greater in length into the body than is apparent on the skin surface), incised (clean cuts into the skin which are longer on the skin surface than they are deep), or chop wounds (incised wounds that penetrate deep to the bone, leaving a groove or cut in the bone).

Appendix 1. Pinniped Injury Criteria (NOAA 2012)

P13	Partially severed or fractured flipper(s)	Case specific	Cleanliness (clean cut vs. tear), nature of injury causing the loss, extent of fin or flipper loss, opened or closed fracture, dislocation, amount/duration of blood loss
P14	Dependent animal (i.e., pup, juvenile) released alone post-interaction or dependent animal left with a seriously injured or dead mother	SI	
P15	Observed or reported collision with vessel	Case specific	Speed of vessel, size of vessel, hull shape, part of vessel to strike the animal (e.g., propeller, hull), size of animal compared to size of vessel, location of strike on animal's body, extent and location of wound(s) to animal

* Factors listed in the far right column of Table 3 are unique to the associated injury type. In addition to those listed in this column, the factors that should be considered, if available, when reviewing all case specific injury events in Table 3 include, but are not limited to:

- Species
- Age or age class (e.g., calf, juvenile, adult)
- Sex
- Size of animal
- Overall health (e.g., nutritional status, body condition, pre-existing disease state, pre-existing injuries)
- Behavior during and/or after injury-causing interaction (e.g., listlessness)
- Reproductive status (e.g., pregnant, lactating, has dependant pup)
- Natural history (e.g., small home range, large home range)
- Location of injury (e.g., mouth, head, body, flipper/fin, internal)
- Size of injury
- Duration of injury (e.g., single event, repeated, chronic)
- Depth of injury (e.g., superficial or to the bone, penetrating muscle or organs)
- Cleanliness of injury (e.g., compression, tearing)
- Environmental condition (e.g., individuals out of their normal habitat, environmental stressors)
- Social stressors (e.g., social structure of species, separation of social individuals from the group, mother/pup separation)
- Cumulative effects of repeated exposures
- Compounding effects of multiple injuries obtained during a single event
- Availability of data on multiple sequential events involving the same individual over time
- Susceptibility of the species to capture myopathy (some sensitive, others robust, some unknown)
- Ability of rehabilitated animal to be released
- Relative effect of blood loss on different species

In addition to those factors listed above, the factors that apply to all fishery or marine-debris interaction related case specific injuries include, but are not limited to:

- Entanglement type (e.g., hooked, anchored, entrapment)
- Amount and size of gear (e.g., size, length and number of lines; number of buoys, traps or anchors; volume of netting; material of gear)
- Method of handling the animal during disentanglement
- Entanglement constriction (e.g., tight, loose, multiple wraps)
- Habitat where animal is located (e.g., an animal with trailing gear in areas of dense gear or an area with vegetation or on shore is more likely to risk snagging the gear and becoming anchored)
- Entanglement duration
- Existence, type and amount of any trailing gear

Appendix 2. Large Whale Injury Criteria (NOAA 2012).

Summary of Large Cetacean¹ Injury Categories and Criteria

Instructions: Each large cetacean injury event is recorded to the appropriate injury/information category using all available information and scientific judgment, as described in the Procedural Directive. Criteria L10 - L12 accommodate events that lack details necessary for assignment to a more specific category. For a single injury event to which several categories apply, the injury determination with the highest level of severity is assigned. More detailed information or extended observation on an individual case/animal may justify a determination differing from the guidance of this table. An animal that is fully disentangled would generally be considered not seriously injured, unless there is additional evidence of a serious injury. Any injury leading to apparent significant health decline (e.g., skin discoloration, lesions near the nares, fat loss, increased cyamid loads) is a serious injury.

Category	Injury/ Information	Injury Determination	Criteria
L1	Ingested gear ² or hook(s)	SI ³	Swallowed, not simply draped through mouth
L2	Constricting wrap	SI	Tightly wrapped line anywhere on body that indents the skin or does not shift with whale's movement, or line that is likely to become constricting as the whale grows. Indication that a whale that is heavily weighted, anchored or has a discolored appendage is sufficient evidence of constricting gear
L3	Loose wrap, bridled or draped gear	NSI ⁴	Loosely wrapped gear that moves or shifts freely with whale's movement. Absence of constricting gear must be confirmed
L4	External hook	NSI	Fishing hook of any size on any part of the body (i.e., not ingested)
L5a	Deep laceration ⁵	SI	Laceration with the potential to affect major artery (e.g., laceration or severing at insertion of flipper/fluke), penetrating body cavity, or cutting bone
L5b	Superficial laceration	NSI	Laceration not deeper than blubber layer, does not affect major artery, or cut bone
L6a	Vessel much greater in size than whale or vessel $\geq 65'$ and >10 knots	SI	Struck by vessel much greater in size than the whale and traveling greater than 10 knots, or struck by vessel equal or greater than 65' and traveling greater than 10 knots, and no information on injury to the whale
L6b	Vessel smaller in size than whale or vessel $<65'$ and >10 knots	Prorate ⁶ : 0.20	Struck by vessel smaller in size than the whale and traveling greater than 10 knots, or struck by vessel less than 65' and traveling greater than 10 knots, and no information on injury to the whale. A strike to a calf by a vessel of any size and traveling greater than 10 knots will be considered a serious injury

¹ For the purposes of this table, "large cetaceans" include all mysticetes and sperm whales.

² For the purposes of this table, "gear" is defined as any portion of fishing gear excluding the hook, which is considered separately.

³ SI = Serious Injury.

⁴ NSI = Non-Serious Injury.

⁵ For the purposes of this table, "laceration" is defined as a ragged incision or a tearing of the skin. Lacerations are caused by trauma that results in stretching, tearing, crushing, shearing, or avulsion of the tissue. Trauma, including blunt and sharp force trauma, includes a wound or bodily harm caused by an extrinsic agent.

⁶ "Prorate" means the number of events assigned to a given category within the assessment period is multiplied by the prorate number provided for that category.

Appendix 2. Large Whale Injury Criteria (NOAA 2012).

L6c	Vessel any size ≤ 10 knots	NSI	Struck by vessel of any size traveling at equal or less than 10 knots and no information on injury to the whale
L7a	Vessel much greater in size than whale or vessel ≥ 65 and speed unknown	Prorate: 0.56	Struck by vessel much greater in size than the whale traveling at an unknown speed, or struck by vessel equal or greater than 65' and traveling at unknown speed, and no information on injury to the whale. A strike to a calf by a vessel of any size when speed is unknown will be considered a serious injury
L7b	Vessel smaller in size than whale or vessel $< 65'$ and speed unknown	Prorate: 0.14	Struck by vessel smaller than the whale traveling at an unknown speed, or struck by vessel less than 65' and traveling at unknown speed, and no information on injury to the whale. A strike to a calf by a vessel of any size when speed is unknown will be considered a serious injury
L8	Dependent ⁷	SI	Dependent calf of a dead or seriously injured mother
L9	Brought on deck	SI	Whale removed from water and brought on deck
L10	Evidence of entanglement	Prorate: 0.75	Confirmed entanglement but insufficient information available to place in any of the L1-L4 criteria with a high degree of certainty
L11	Vessel strike laceration	Prorate: 0.52	Whale confirmed with non-entanglement related laceration but lacking details to place in either criteria L5a or L5b with a high degree of certainty. Includes observation of blood in water
L12	Vessel strike observed	Prorate: 0.36	Confirmed vessel strike report where there is insufficient detail to assign event to criteria L6a – L7b with a high degree of certainty. A strike to a calf by a vessel of unknown size traveling at an unknown speed will be considered a serious injury

⁷ “Dependent” for a large cetacean means a non-weaned calf. Weaned calves and juvenile large cetaceans are no longer dependent on their mothers.

Appendix 3. Small Cetacean Injury Criteria (NOAA 2012).

Summary of Small Cetacean¹ Injury Categories and Criteria

Instructions: Each small cetacean injury event is recorded to the appropriate injury/information category using all available information and scientific judgment, as described in the Procedural Directive. For a single injury event to which several categories apply, the injury determination with the highest level of severity is assigned. More detailed information or extended observation on an individual case/animal may justify a determination differing from the guidance of this table. Any injury leading to apparent significant health decline (e.g., skin discoloration, fat loss) is a serious injury.			
Category	Injury/Information	Injury Determination ²	Additional factors for evaluating whether “case specific” injuries are serious or non-serious (additional factors at end of table) *
S1	A free-swimming animal observed at a date later than its human interaction, exhibiting signs of declining health believed to be resulting from initial injury (e.g., a marked skin discoloration, fat loss)	SI ³	
S2	Ingested gear ⁴ or hook(s)	SI	
S3	Visible blood loss	Case specific ⁵	Amount of blood, location of the bleeding injury, duration of bleeding
S4	Animal brought on vessel deck following entanglement/entrapment (excluding scientific research targeting marine mammals and authorized as such under a NMFS scientific research permit, where the animal is brought on and placed on the vessel deck in a controlled manner)	SI	
S5a	Hook(s) in head (excluding criterion S5b), regardless of the presence of gear	SI	
S5b	Hook(s) confirmed in lip only, external tissue outside of teeth, no trailing gear	Case specific	Prolonged restraint or struggle that could lead to capture myopathy, size of hook, depth of hooking, impairing ability to feed, presence of other injuries
S5c	Hook(s) in any body part, but hook(s) is removed or pulls out	Case specific	Prolonged restraint or struggle that could lead to capture myopathy, depth of hook, hook pulls out cleanly vs. causes further injury during dehooking, method used to remove hook, length of time hooked
S5d	Hook(s) in appendage or body (excluding criterion S5a), without trailing gear or with trailing gear that does not have the potential ⁶ to: 1) become a constricting wrap on animal; 2) be ingested; 3) accumulate drag; or 4) become snagged on something in the environment, anchoring the animal	Case specific	Prolonged restraint or struggle that could lead to capture myopathy, depth and location of hook, type and amount of gear attached

¹ For the purposes of this table, small cetaceans include all odontocetes except sperm whales.

² This table includes only those criteria determined to be serious injuries or case specific based on expert opinion at the 2007 Workshop (Andersen *et al.*, 2008) and by small cetacean experts on the NMFS Determination Staff working group. For the purposes of streamlining the information for the reader, criteria determined to be non-serious injuries are not included in this table.

³ SI = serious injury.

⁴ For the purposes of this table, gear is defined as any portion of fishing gear excluding the hook, which is considered separately. Lures are considered gear. Gear also generally refers to any type of debris entangling or attached to the animal.

⁵ Case specific = Could be a serious or non-serious injury, but either 1) there is insufficient information about the impact of a particular injury, or 2) additional factors must be considered on a case-by-case basis to determine the severity

⁶ For the purposes of this table, “potential” as it relates criterion S5d indicates that the trailing gear IS NOT capable of leading to any of the situations listed.

Appendix 3. Small Cetacean Injury Criteria (NOAA 2012).

S6	Gear attached to free-swimming animal with potential ⁷ to: 1) become a constricting wrap on animal; 2) be ingested; 3) accumulate drag; or 4) become snagged on something in the environment, anchoring the animal	SI	
S7a	Anchored, immobilized, or entrapped and not freed	SI	
S7b	Anchored, immobilized, entangled, or entrapped before being freed without gear attached	Case specific	Duration of entanglement/entrapment, prolonged restraint or struggle that could lead to capture myopathy, gear type, where/how gear is attached to animal, associated injury (i.e., where directly or indirectly caused by initial entanglement), response of individual animal, method used by human to remove gear from animal
S8a	Gear wrapped and constricting on any body part or is likely to become constricting as the animal moves or grows	SI	
S8b	Gear wrapped and loose on any body part	Case specific	Gear type, amount of gear, potential for snag, potential to lead to criterion S8a, animal body size relative to gear (e.g., because of species or age), effect on animal movement, species sensitivity (e.g., frightens easily)
S9	Body trauma ⁸ not covered by any other criteria	Case specific	Location of wound, depth (e.g., superficial or to the bone, penetrating muscle or organs), length, number of lacerations, cleanliness (i.e., compression vs. tearing)
S10	Visible fracture(s), excluding pectoral fins (see criterion S13d for pectoral fin fractures)	SI	
S11	Vertebral transection, including fully severed flukes	SI	
S12	Body cavity penetration ⁹ by foreign object or body cavity exposure	SI	
S13a	Loss or disfigurement of dorsal fin	Case specific	Cleanliness (i.e., compression vs. tearing), nature of injury causing the loss, extent of fin loss (i.e., full or partial), amount and duration of blood loss
S13b	Partially severed flukes, transecting midline	SI	

⁷ For the purposes of this table, potential as it relates criterion S6 indicates that the trailing gear IS capable of leading to any of the situations listed.

⁸ For the purposes of this table, “trauma” is defined as a wound or bodily harm caused by an extrinsic agent. Blunt trauma is an injury (abrasion, laceration, contusion or skeletal fracture) produced by a blunt object striking the body or impact of the body against a blunt object or surface. Sharp force trauma is an injury caused by a sharp or pointed object creating a penetrating (stab, chop or incision) wound. Laceration is defined as a ragged incision or a tearing of the skin. Lacerations are caused by blunt trauma that results in stretching, tearing, crushing, shearing, or avulsion of the tissue.

⁹ For the purposes of this table, “penetration” is defined as a wound occurring when a foreign object punctures the body. Penetrating wounds can be characterized as one of three types: stab (small external wound that is greater in length into the body than is apparent on the skin surface), incised (clean cuts into the skin which are longer on the skin surface than they are deep), or chop wounds (incised wounds that penetrate deep to the bone, leaving a groove or cut in the bone).

Appendix 3. Small Cetacean Injury Criteria (NOAA 2012).

S13c	Partially severed flukes, not transecting midline	Case specific	Cleanliness (i.e., compression vs. tearing), nature of injury causing the loss, amount and duration of blood loss
S13d	Partially or completely severed or fractured pectoral fin(s)	Case specific	Cleanliness (i.e., compression vs. tearing), nature of injury causing the loss, extent of fin loss (i.e., full or partial), amount and duration of blood loss, opened or closed fracture
S14	Social animal separated from group and/or released alone post-interaction (excluding criterion S15)	Case specific	Species (e.g., sensitivity, offshore vs. inshore), location of release (e.g., likelihood of animal locating its conspecifics)
S15	Dependent animal (i.e., calf, juvenile) released alone post-interaction or dependent animal left with a seriously injured or dead mother	SI	
S16	Observed or reported collision with vessel	Case specific	Speed of vessel, size of vessel, hull shape, part of vessel to strike the animal, size of animal compared to size of vessel, behavior of animal after collision, extent and location of wound(s) on animal

* Factors listed in the far right column of Table 2 are unique to the associated injury type. In addition to those listed in this column, the factors that should be considered, if available, when reviewing all case specific injury events in Table 2 include, but are not limited to:

- Species
- Age or age class (e.g., calf, juvenile, adult)
- Sex
- Size of animal
- Overall health (e.g., nutritional status, body condition, pre-existing disease state, pre-existing injuries)
- Behavior during and/or after injury-causing interaction (e.g., dorsal arching, listlessness)
- Reproductive status (e.g., pregnant, lactating, has dependant calf)
- Natural history (e.g., indigenous, migratory)
- Location of injury (e.g., mouth, head, body, fin, tail, internal)
- Size of injury
- Duration of injury (e.g., single event, repeated, chronic)
- Depth of injury (e.g., superficial or to the bone, penetrating muscle or organs)
- Cleanliness of injury (e.g., compression, tearing)
- Environmental condition (e.g., individuals out of their normal habitat, climate stressors)
- Social stressors (e.g., social structure of species, separation of social individuals from the group, cow/calf separation)
- Cumulative effects of repeated exposures
- Compounding effects of multiple injuries obtained during a single event
- Availability of data on multiple sequential events involving the same individual over time
- Susceptibility of the species to capture myopathy (spinner dolphins and porpoises notoriously sensitive; bottlenose dolphins robust; many others fall in between, with some unknown)
- Ability of rehabilitated animal to be released
- Relative effect of blood loss on different species

In addition to those factors listed above, the factors that apply to all fishery-interaction related case specific injuries include, but are not limited to:

- Entanglement type (e.g., hooked, anchored, entrapment)
- Amount and size of gear (e.g., size, length and number of branches of line; number of buoys, traps or anchors; volume of netting)
- Entanglement constriction (e.g., tight, loose, multiple wraps)
- Habitat where animal is located (e.g., an animal with trailing gear areas of dense gear or an area with vegetation is more likely to risk snagging the gear and becoming anchored)
- Entanglement duration
- Existence, type and amount of any trailing gear
- Method of handling the animal during disentanglement

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
BAIRD'S BEAKED WHALE	CA-OR-WA	2016	8	29	VESSEL STRIKE	MARIN	CA	DEAD	THE DISTAL END OF THE PEDUNCLE AND THE FLUKES HAD BEEN SEVERED OFF, LIKELY PERIMORTEM. STANDARD LENGTH MEASUREMENT IS TO THE SEVERED PEDUNCLE. LIMITED NECROPSY DUE TO THE LEVEL OF	DEAD	NA	1	N	Y
BLAINVILLE'S BEAKED WHALE	CA-OR-WA	2016	10	9	GILLNET FISHERY	CLALLAM	WA	DEAD	DETERMINED VIA EXTERNAL AND INTERNAL EXAM, HISTOLOGY. SEVERAL EVENLY SPACED (5CM BETWEEN EACH "X") CROSSHATCH MARKS ON FRONT OF ROSTRUM AND SIDES OF HEAD. THIN INDENTATIONS ON LEFT AND RIGHT SIDES OF BEAK THAT APPEAR TO WRAP AROUND BEAK. DIFFUSE BRUISING THROUGHOUT HEAD BLUBBER, SEVERE ON RIGHT SIDE BEHIND BLOWHOLE, WITH EDEMATOUS MUSCLE BENEATH. BODY BRUISING, PARTICULARLY ON ENTIRE VENTRAL SIDE OF THE ANIMAL AND ALONG THE TIPS OF THE DORSAL VERTEBRAL PROCESSES. EVIDENCE OF POSSIBLE DROWNING, CONFIRMED VIA HISTOLOGY. ALSO INGESTED 15CM LONG PIECE OF BLACK KNOTTED ROPE (3CM DIAMETER).	DEAD	NA	1	Y	Y
BLUE WHALE	EASTERN N PACIFIC	2015	9	4	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	LOS ANGELES	CA	SI (PRORATE)	OVERHEAD CAMERA FOOTAGE INDICATES THAT GEAR ORIGINATES FROM MOUTH OR RIGHT PECTORAL AND RUNS ALONG BODY, POSSIBLY TWO LINES, ONE OVER THE FLUKES AND ANOTHER UNDER THE FLUKES THEN APPROX 40 FT BEHIND WHALE, THEN WRAPS/TWISTS TOGETHER AND GOES BACK 400+ FEET. CDFW CONCURS IS CONSISTENT WITH DEEP SET TRAP, POSSIBLY HAGFISH, SABLEFISH, OR SPOT PRAWN. CONFIGURATION OF GEAR UNKNOWN AND CANNOT TELL IF GEAR IS CONSTRICTING OR LOOSELY WRAPPED. WHALE REPORTED AS SWIMMING AND DIVING, BUT NOT ENOUGH TO SUBMERGE BODY. WHALE APPEARS SLIGHTLY THIN, IMPLYING A DECLINE IN HEALTH STATUS DUE TO THE TRAILING GEAR. SERIOUS INJURY PRORATION VALUE IS ASSIGNED AS = 1 FOR THIS REASON. PHOTOS AND VIDEO REVIEWED BY J. CARRETTA, J. GILPATRICK, M. LYNN AND A. HENRY.	SI (PRORATE)	L10	1	Y	Y
BLUE WHALE	EASTERN N PACIFIC	2016	6	26	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	SAN DIEGO	CA	SI	35 MILES WEST OF PT. LOMA. TRAILING 2 RED BULLET BUOYS WITH PURPLE T6 CDFW DUNGENESS CRAB BUOY TAG; LINE WRAPPED THROUGH MOUTH OR AROUND PECTORAL FIN. GEAR WAS ORIGINALLY SET OFF SAN LUIS OBISPO IN 40 - 70 FATHOMS OF WATER. WHALE SEEN NEXT DAY, LOGGING AT SURFACE, WHICH IS ABNORMAL BEHAVIOR FOR A BLUE WHALE. UNSUCCESSFUL ATTEMPT AT DISENTANGLING WHALE. FULL CONFIGURATION OF GEAR UNKNOWN. THIS IS A SERIOUS INJURY BECAUSE OF THE NOTED HEALTH DECLINE OF THE WHALE.	SI	L10	1	Y	Y
BLUE WHALE	EASTERN N PACIFIC	2016	7	14	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	LOS ANGELES	CA	SI	SEEN OFF LOS ANGELES TRAILING BUOYS AND LINE. MULTIPLE RESIGHTS AS FAR NORTH AS SANTA CRUZ COUNTY. SEEN ACTIVELY FEEDING WITH OTHER BLUE WHALES THROUGH EARLY OCTOBER. FINAL SIGHTING WAS IN OCTOBER OFF OF LOS ANGELES. WHALE BODY CONDITION WAS DESCRIBED AS "EMACIATED" IN AUGUST AND "FAIR" IN OCTOBER. LINE WRAPPED AROUND BODY, 2 YELLOW BUOYS WITH BLUE TIPS, TRAILING 30 FEET BEHIND WHALE, SPACED 1 FM APART, PURPLE CDFW DUNGENESS CRAB BUOY TAG VISIBLE. VIDEO SHOWS ALGAE AND BARNACLE GROWTH ON ROPE AND BUOYS, COMPRESSION OF BUOYS. UNCERTAINTY OVER WHETHER LINE EXTENDS THROUGH MOUTH OR JUST OVER PECTORAL FLIPPERS. HEALTH DECLINE AND TWO CRISS-CROSSED CONSTRICTING MULTIPLE WRAPS OF LINE POSTERIOR OF DORSAL AROUND BODY WARRANTS REPORT OF AN ENTANGLED WHALE FROM POINT BLUE CONSERVATION GROUP NEAR THE FARALLON ISLANDS.	SI	L2	1	Y	Y
BLUE WHALE	EASTERN N PACIFIC	2016	8	15	UNIDENTIFIED FISHERY INTERACTION	SAN FRANCISCO	CA	SI (PRORATE)	NO PHOTOS OR ADDITIONAL INFORMATION. AMOUNT OF GEAR AND CONFIGURATION UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
BLUE WHALE	EASTERN N PACIFIC	2016	8	28	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI (PRORATE)	TWO BLACK OR GREEN BUOYS WITH ABUNDANT MARINE GROWTH TRAILING BEHIND WHALE ABOUT 20-30 FEET, FLUKES NOT ENTANGLED, BUT POSSIBLY PECTORAL FIN. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. NO PHOTOS.	SI (PRORATE)	L10	0.75	Y	Y
BLUE WHALE	EASTERN N PACIFIC	2016	10	26	VESSEL STRIKE	SAN MATEO	CA	DEAD	MODERATELY DECOMPOSED 65-FOOT LONG BLUE WHALE NECROPSIED BY THE MARINE MAMMAL CENTER, FINDINGS OF BLUNT FORCE TRAUMA. SOME UNCERTAINTY WHETHER OR NOT VESSEL STRIKE WAS NECROPSY CONDUCTED BY MARINE MAMMAL CENTER IN SAUSALITO. BLUNT FORCE TRAUMA DUE TO A BOAT STRIKE," SAID BARBIE HALASKA, A BIOLOGIST AND RESEARCH ASSISTANT AT THE MARINE MAMMAL CENTER IN SAUSALITO. LEFT SIDE OF BODY WAS DAMAGED. FINDINGS INCLUDED 10 BROKEN RIBS AND 10 FRACTURED VERTEBRAE NEAR THE TAIL AND MID-BODY.	DEAD	NA	1	N	Y
BLUE WHALE	EASTERN N PACIFIC	2017	5	25	VESSEL STRIKE	MARIN	CA	DEAD	TWO BUOYS ON RIGHT SIDE OF BODY, WITH LINE POSSIBLY EXTENDING TO MOUTH. ONE BUOY HAD A RED/ORANGE TAG, THIS IS A CA DUNGENESS CRAB ENTANGLEMENT. ONE LARGER YELLOW BUOY WITH BLACK LONGITUDINAL STRIPE TRAILING OFF RIGHT SIDE, MID BODY, POSSIBLE MOUTH ENTANGLEMENT. APPEARS TO BE A GREEN/BLUE LINE AROUND THE HEAD. ANIMAL LUNGING AT SURFACE, OBSERVERS THINK IT MIGHT HAVE SELF-RELEASED, BUT BUOYS WERE NOT SEEN AGAIN. UNCERTAINTY REGARDING CONTINUED PRESENCE OF GEAR ON ANIMAL AND UNKNOWN CONFIGURATION WARRANTS PRORATED SERIOUS INJURY.	DEAD	NA	1	N	Y
BLUE WHALE	EASTERN N PACIFIC	2017	6	10	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	SAN FRANCISCO	CA	SI (PRORATE)	PHOTOS SHOW BLUE LINE DRAPED OVER BACK OF WHALE DIAGONALLY, FROM ANTERIOR TO DORSAL FIN, TOWARDS MIDBODY. PHOTOS SHOW THAT PRIVATE VESSEL RETRIEVED, VIA CUTTING, A LONG LENGTH OF BLUE LINE AND 2 LARGE BUMPER BUOYS. UNCLEAR IF GEAR REMAINED ON ANIMAL OR NOT. GOOD BODY CONDITION, NO BEHAVIORAL SUMMARY. UNKNOWN GEAR CONFIGURATION AND AMOUNT.	SI (PRORATE)	L10	0.75	Y	Y
BLUE WHALE	EASTERN N PACIFIC	2017	8	19	UNIDENTIFIED FISHERY INTERACTION	SAN DIEGO	CA	SI (PRORATE)	PHOTOS SHOW BLUE WHALE TRAILING A SINGLE BUOY APPROXIMATELY 1.5 BODY LENGTHS BEHIND TAIL. ANIMAL WAS ACTIVELY SWIMMING. GEAR CONFIGURATION AND AMOUNT UNKNOWN. PHOTOS NECROPSY FINDINGS INCLUDED: LARGE AREAS OF MUSCLE HEMORRHAGE ON THE LEFT AND RIGHT DORSO-LATERAL SIDES. HEMORRHAGED TISSUE OBSERVED CAUDAL TO THE GAPE ON THE LEFT SIDE. EXTENSIVE NECROTIC TISSUE WAS NOTED CAUDAL TO THE SKULL AT THE CERVICAL VERTEBRAE. BONE BRUISING WAS OBSERVED ON ALL OF THE RIBS THAT WERE VISUALIZED ON THE LEFT SIDE AND ON THE LEFT MANDIBLE. THERE WERE NO BROKEN RIBS. THERE WAS EXTENSIVE FREE-FLOWING BLOOD OBSERVED WHEN THE RIGHT THORAX WAS OPENED UP. THE FIRST THREE (3) LUMBAR VERTEBRAE WERE SURROUNDED BY NECROTIC TISSUE AND WERE SHATTERED INTO MANY PIECES, INCLUDING FRACTURED LATERAL PROCESSES, FRACTURED CENTRUMS, AND A FRACTURED EPIPHYSEAL PLATE. ALL OTHER VERTEBRAE THAT WERE VISUALIZED WERE INTACT.	SI (PRORATE)	L10	0.75	Y	Y
BLUE WHALE	EASTERN N PACIFIC	2018	6	16	VESSEL STRIKE	SAN FRANCISCO	CA	DEAD	FINDINGS CONSISTENT WITH VESSEL STRIKE AS CAUSE OF WHALE TRAILING 2 YELLOW BUOYS APPROXIMATELY 40 FT. BEHIND ANIMAL. NO PHOTOS. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN.	DEAD	NA	1	N	Y
BLUE WHALE	EASTERN N PACIFIC	2018	7	16	UNIDENTIFIED FISHERY INTERACTION	SONOMA	CA	SI (PRORATE)		SI (PRORATE)	L10	0.75	Y	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
BOTTLENOSE DOLPHIN	CA-OR-WA OFFSHORE	2014	1	3	CA SWORDFISH DRIFT GILLNET FISHERY	SAN DIEGO	CA	DEAD	SELF-REPORTED BY VESSEL CAPTAIN. NO DETAILS OTHER THAN KILLED. ASSUMED TO BE PART OF OFFSHORE CA/OR/WA STOCK BASED ON TYPICAL FISHING LOCATIONS FOR THIS FISHERY.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2014	1	3	MARINE DEBRIS	ORANGE	CA	SI	WOUND AROUND NECK FROM NET/LINE. EMACIATED, DEHYDRATED.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	1	20	HOOK AND LINE FISHERY	ORANGE	CA	SI	UNDERWEIGHT, DEHYDRATED, FISH HOOK AND LINE UNDER RIGHT FLIPPER	SI	P1	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	1	21	SHOOTING	SAN LUIS OBISPO	CA	SI	LETHARGIC, UNDERWEIGHT, WOUND ON LOWER BACK. BULLET FOUND DURING NECROPSY IN THE DIAPHRAGM WITH AN ENTRANCE POINT IN THE PUBIS.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	1	22	HOOK AND LINE FISHERY	ORANGE	CA	SI	UNDERWEIGHT, LARGE BITE WOUNDS UNDER RIGHT FRONT FLIPPER AND LEFT CHEST AREA. FOUND APPROXIMATELY 3 FEET OF FISHING LINE/NET IN ANIMALS VOMIT. ANIMAL TRANSFERRED TO REHAB FACILITY.	SI	P2	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	2	9	MARINE DEBRIS	VENTURA	CA	SI	WOUND AROUND NECK FROM POSSIBLE PACKING STRAP. TRANSFERRED TO REHAB FACILITY, OUTCOME UNKNOWN.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	2	24	CATCH SHARES HOOK AND LINE	OFFSHORE	CA	NSI	SEAL BOMBS USED TO SCARE ANIMAL AWAY FROM CATCH. WORKED TEMPORARILY BUT ANIMAL RETURNED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2014	2	24	CATCH SHARES HOOK AND LINE	OFFSHORE	CA	NSI	SEAL BOMBS USED TO SCARE ANIMAL AWAY FROM CATCH. WORKED TEMPORARILY BUT ANIMAL RETURNED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2014	2	24	CATCH SHARES HOOK AND LINE	OFFSHORE	CA	NSI	SEAL BOMBS USED TO SCARE ANIMAL AWAY FROM CATCH. WORKED TEMPORARILY BUT ANIMAL RETURNED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2014	2	24	CATCH SHARES HOOK AND LINE	OFFSHORE	CA	NSI	SEAL BOMBS USED TO SCARE ANIMAL AWAY FROM CATCH. WORKED TEMPORARILY BUT ANIMAL RETURNED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2014	2	24	CATCH SHARES HOOK AND LINE	OFFSHORE	CA	NSI	SEAL BOMBS USED TO SCARE ANIMAL AWAY FROM CATCH. WORKED TEMPORARILY BUT ANIMAL RETURNED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2014	2	24	CATCH SHARES HOOK AND LINE	OFFSHORE	CA	NSI	SEAL BOMBS USED TO SCARE ANIMAL AWAY FROM CATCH. WORKED TEMPORARILY BUT ANIMAL RETURNED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2014	3	1	UNIDENTIFIED NET FISHERY	SANTA CRUZ	CA	SI	ENTANGLEMENT WOUND AROUND NECK FROM MONOFILAMENT NET. ANIMAL SENT TO REHAB FACILITY, OUTCOME UNKNOWN.	SI	P8A	1	Y	Y
CALIFORNIA SEA LION	U.S.	2014	3	6	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	MONOFILAMENT LINE AROUND NECK CAUSING A HALF INCH DEEP LACERATION. THIN, DEHYDRATED, SWOLLEN RIGHT FRONT FLIPPER. ANIMAL SENT TO REHAB FACILITY, OUTCOME UNKNOWN.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	3	9	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	THIN PUP WITH FISHING LINE AROUND NECK CAUSING A HALF INCH DEEP BY FIVE INCH WIDE LACERATION ON THE VENTRAL SIDE. ANIMAL TRANSFERRED TO REHAB FACILITY, OUTCOME UNKNOWN.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	3	12	POWER PLANT ENTRAINMENT	LOS ANGELES	CA	DEAD	FOUND FLOATING DEAD IN WATER INTAKE SYSTEM. SCATTERGOOD GENERATING STATION.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	3	16	HOOK AND LINE FISHERY	MONTEREY	CA	SI	GREEN MONOFILAMENT AROUND HEAD AND NECK, CUTS TO HEAD AND NECK, TREMBLING, MODERATELY UNDERWEIGHT. TRANSFERRED TO REHAB FACILITY, OUTCOME UNKNOWN.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	3	19	VESSEL STRIKE	CLATSOP	OR	DEAD	PROPELLER WOUNDS ON FRESHLY DEAD ANIMAL UNRESPONSIVE, LABORED BREATHING, MODERATELY UNDERWEIGHT. ANIMAL TRANSFERRED TO REHAB FACILITY, OUTCOME UNKNOWN.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	3	20	OIL / TAR	MONTEREY	CA	SI	UNRESPONSIVE, LABORED BREATHING, MODERATELY UNDERWEIGHT. ANIMAL TRANSFERRED TO REHAB FACILITY, OUTCOME UNKNOWN.	SI	P1	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	3	21	GILLNET FISHERY	LOS ANGELES	CA	SI	GILLNET ENTRAPMENT AROUND SKULL CUTTING INTO NECK AT LEVEL OF LARYNX; COUGHING; CONGESTION. ANIMAL TRANSFERRED TO REHAB FACILITY, OUTCOME UNKNOWN.	SI	P8A	1	Y	Y
CALIFORNIA SEA LION	U.S.	2014	3	22	SHOOTING	SAN DIEGO	CA	SI	EXTERNAL WOUNDS CONSISTENT WITH GUNSHOT. THE ANIMAL WAS RADIOGRAPHED WHICH CONFIRMED THAT HE HAD BEEN SHOT WITH A SHOT GUN AND HAD MULTIPLE BUCKSHOT IN HIS HEAD AND BACK.	SI	P9	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	3	24	GILLNET FISHERY	SANTA BARBARA	CA	SI	MONOFILAMENT GILLNET CUTTING INTO NECK AND MOUTH. ANIMAL TRANSFERRED TO REHAB FACILITY, OUTCOME UNKNOWN.	SI	P8A	1	Y	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
CALIFORNIA SEA LION	U.S.	2014	3	25	GILLNET FISHERY	SANTA BARBARA	CA	SI	UNDERWEIGHT ANIMAL WITH MONOFILAMENT NET AROUND NECK AND MOUTH REMOVED, ANIMAL TRANSPORTED TO THE MARINE MAMMAL CENTER, FINAL OUTCOME UNKNOWN.	SI	P7B	1	Y	Y
CALIFORNIA SEA LION	U.S.	2014	3	27	OIL / TAR	SAN DIEGO	CA	SI	LETHARGIC, UNDERWEIGHT, THICK OIL COAT ON HEAD AND HINDQUARTERS, ANIMAL TAKEN INTO REHAB AND CLEANED, FINAL OUTCOME UNKNOWN.	SI	P1	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	3	30	HOOK AND LINE FISHERY	ORANGE	CA	SI	HOOK IN RIGHT FRONT FLIPPER	NSI	PSD	0	N	N
CALIFORNIA SEA LION	U.S.	2014	4	1	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	UNDERWEIGHT, HOOK THROUGH TONGUE	SI	PSA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	1	MARINE DEBRIS	GRAYS HARBOR	WA	SI	CONSTRICTING ENTANGLEMENT AROUND NECK, PHOTO REVIEWED, MATERIAL NOT VISIBLE.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	4	MARINE DEBRIS	SAN MATEO	CA	SI	RUBBER BELT AROUND NECK. ANIMAL TAKEN TO REHAB, OUTCOME UNKNOWN.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	5	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	UNDERWEIGHT ANIMAL WITH ONE FISH HOOK UNDER RIGHT EYE, ONE IN FLIPPER. RADIOGRAPH REVEALED THIRD FISH HOOK IN STOMACH WHICH WAS REMOVED IN REHAB. FINAL OUTCOME UNKNOWN.	SI	P2	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	6	MARINE DEBRIS	SANTA BARBARA	CA	SI	UNDERWEIGHT ANIMAL WITH BLACK RUBBER BELT CUTTING INTO NECK. REMOVED AT SANTA BARBARA MARINE MAMMAL CENTER. FINAL OUTCOME UNKNOWN.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	6	SHOOTING	SAN DIEGO	CA	SI	UNDERWEIGHT ANIMAL MISSING BOTH EYES. RADIOGRAPH REVEALED BULLET IN HEAD.	SI	P12	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	8	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	KILLED BY GEAR	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2014	4	8	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	HYPERTHERMIC ANIMAL WITH HOOK IN SHOULDER. TREATED AT REHAB FACILITY, OUTCOME UNKNOWN.	SI	P5C	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	10	GILLNET FISHERY	SAN DIEGO	CA	SI	GILLNET WOUND AROUND NECK, ANIMAL CAPTURED AND TREATED, OUTCOME UNKNOWN.	SI	P8A	1	Y	Y
CALIFORNIA SEA LION	U.S.	2014	4	11	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	UNDERWEIGHT ANIMAL WITH HOOK IN SHOULDER. TREATED AT REHAB FACILITY, OUTCOME UNKNOWN.	SI	P5C	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	11	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	UNDERWEIGHT AND CONGESTED ANIMAL WITH FISH HOOK IN RIGHT REAR FLIPPER. TREATED AT REHAB, OUTCOME UNKNOWN.	SI	P5C	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	12	GILLNET FISHERY	LOS ANGELES	CA	SI	CUTS AROUND NECK - GILL NET INJURY; ATAXIC; THIN; MALNUTRITION	SI	P1	1	Y	Y
CALIFORNIA SEA LION	U.S.	2014	4	12	HOOK AND LINE FISHERY	ORANGE	CA	SI	UNDERWEIGHT AND DEHYDRATED ANIMAL WITH FISH HOOK IN LEFT REAR FLIPPER. TREATED AT REHAB, OUTCOME UNKNOWN	SI	P5C	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	13	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	KILLED BY GEAR	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2014	4	13	HOOK AND LINE FISHERY	ORANGE	CA	SI	UNDERWEIGHT ANIMAL WITH HOOK ON RIGHT SIDE OF MOUTH AND FLIPPER. TREATED AT REHAB FACILITY, OUTCOME UNKNOWN.	SI	PSA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	13	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	EMACIATED, DEHYDRATED, FISHING HOOK IN CHIN ON LEFT SIDE, SWOLLEN RIGHT SIDE OF NECK POSSIBLY FROM DOG BITE. ANIMAL TREATED AT REHAB FACILITY, OUTCOME UNKNOWN.	SI	P5B	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	13	MARINE DEBRIS	GRAYS HARBOR	WA	SI	CONSTRICTING ENTANGLEMENT AROUND NECK, LOOKS LIKE WHITE PACKING BAND OR LARGE ZIP TIE. PHOTO EMACIATED, FISH HOOKS IN FRONT & REAR FLIPPERS. TREATED AT REHAB, OUTCOME UNKNOWN.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	14	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	EMACIATED, DEHYDRATED, AND THREE PRONG FISHING HOOK ON THE FRONT EDGE OF LEFT FLIPPER WITH FISHING LINE WRAPPED TIGHTLY AROUND TIP SEVERING A PIECE OF THE FLIPPER. TREATED AT REHAB, OUTCOME UNKNOWN.	SI	P5C	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	14	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	15	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	15	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
CALIFORNIA SEA LION	U.S.	2014	4	15	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	15	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	15	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	16	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	FISH HOOK IN LEFT GUM. ANIMAL TREATED IN REHAB, OUTCOME UNKNOWN.	SI	PSA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	16	SHOOTING	LOS ANGELES	CA	SI	GUNSHOT WOUNDS TO HEAD; PNEUMONIA; MALNUTRITION. TREATED IN REHAB, OUTCOME	SI	P12	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	17	HOOK AND LINE FISHERY	ORANGE	CA	SI	UNDERWEIGHT, FISH HOOKS BELOW EYE AND IN FLIPPERS. TREATED AT REHAB FACILITY, OUTCOME UNKNOWN.	SI	PSB	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	19	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	THIN AND DEHYDRATED. FISH HOOK IN LEFT CORNER OF MOUTH. TREATED AT REHAB FACILITY, OUTCOME UNKNOWN.	SI	PSA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	19	MARINE DEBRIS	SAN DIEGO	CA	SI	PLASTIC ZIPLOC BAG AROUND NECK REMOVED ON SITE. ANIMAL WAS ALERT AND OTHERWISE IN GOOD BODY CONDITION.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2014	4	20	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	FISH HOOK IN MOUTH	SI	PSA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	21	HOOK AND LINE FISHERY	ORANGE	CA	SI	UNDERWEIGHT, DEHYDRATED, FISH HOOK LEFT REAR FLIPPER. TREATED AT REHAB FACILITY, OUTCOME UNKNOWN.	SI	P5C	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	22	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	22	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	22	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	22	HOOK AND LINE FISHERY	ORANGE	CA	SI	LACERATION ON L FRONT FLIPPER WITH A FISH HOOK	SI	P5C	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	22	HOOK AND LINE FISHERY	ORANGE	CA	SI	UNDERWEIGHT, FISH HOOK IN MOUTH LEFT EAR, LEFT REAR FLIPPER. TREATED AT REHAB, OUTCOME UNKNOWN.	SI	P5C	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	22	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	MALNOURISHED AND LETHARGIC ANIMAL WITH A FISH HOOK. LOCATION OF HOOK NOT DESCRIBED. HOOK FOUND IN NET AFTER RESCUE. TRANSFERRED TO REHAB FACILITY, OUTCOME UNKNOWN.	SI	P5C	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	26	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	DEEP FISHING LINE CUTS AROUND SKULL; PROLAPSED AND ULCERATED RECTUM; CONGESTED. SENT TO REHAB FACILITY, OUTCOME UNKNOWN.	SI	P1	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	27	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	EMACIATED, DEHYDRATED AND 1/2 INCH DEEP CUT ALL THE WAY AROUND NECK FROM MONOFILAMENT LINE WHICH WAS REMOVED AT SEAWORLD. UNDERWEIGHT AND DEEP CUT FROM FISHING LINE. FINAL OUTCOME	SI	P1	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	28	OIL / TAR	MONTEREY	CA	SI	EMACIATED AND LETHARGIC ANIMAL WITH OIL/TAR ON BODY	SI	P1	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	28	OIL / TAR	SAN LUIS OBISPO	CA	SI	ALERT, EMACIATED, TAR PATCHES ON NECK. SMALL WOUND ON NECK. OIL/TAR EXTERNAL EXAM	SI	P1	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	28	SHOOTING	CLATSOP	OR	DEAD	BULLETS RETRIEVED	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	28	SHOOTING	CLATSOP	OR	DEAD	BULLET HOLES IN SKULL AND BODY	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	29	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	4	29	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
CALIFORNIA SEA LION	U.S.	2014	4	29	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	5	1	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	5	1	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	5	1	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	5	1	GILLNET FISHERY	LOS ANGELES	CA	SI	SEVERE GILL NET INJURY; MALNUTRITION.	SI	P1	1	Y	Y
CALIFORNIA SEA LION	U.S.	2014	5	1	GILLNET FISHERY	MONTEREY	CA	NSI	GOOD BODY CONDITION, MONOFILAMENT NET ENTANGLEMENT	NSI	P1	0	N	N
CALIFORNIA SEA LION	U.S.	2014	5	4	HOOK AND LINE FISHERY	LOS ANGELES	CA	NSI	FISH HOOK IN LOWER LIP; SENT TO REHAB, OUTCOME UNKNOWN.	NSI	PSB	0	N	N
CALIFORNIA SEA LION	U.S.	2014	5	4	SHOOTING	GRAYS HARBOR	WA	DEAD	LARGE PELLET RECOVERED FROM SKULL, ASSOCIATED HEMORRHAGE.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	5	7	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	MONOFILAMENT LINE AROUND SHOULDER. ANIMAL SENT TO REHAB, OUTCOME UNKNOWN.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	5	8	HOOK AND LINE FISHERY	SAN DIEGO	CA	NSI	SMALL HOOK NEAR GENITALS, UNDERWEIGHT, SLIGHTLY DEHYDRATED AND AN INJURED LEFT EYE. FISHING HOOK WAS REMOVED ON 5/8/14 UNDERWEIGHT AND INJURED LEFT EYE External Exam	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2014	5	11	MARINE DEBRIS	SAN JUAN	WA	SI	CONSTRICTING INJURY AROUND NECK, MATERIAL NOT VISIBLE IN PHOTO.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	5	11	SHOOTING	SAN DIEGO	CA	SI	EXTREMELY LETHARGIC, SWOLLEN RIGHT EYE, WOUNDS ON RIGHT SIDE OF FACE. BULLETS FOUND IN NECROPSY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	5	11	SHOOTING	MONTEREY	CA	DEAD	BULLET HOLE / INJURY IN BACK	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	5	18	HOOK AND LINE FISHERY	SANTA BARBARA	CA	SI	FISH HOOKS IN CHEST AND NECK. RELOCATED AND RELEASED 5/18/14.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2014	5	18	MARINE DEBRIS	LOS ANGELES	CA	SI	THIN; HEALING CIRCUMFERENTIAL NECK LACERATION FROM PREVIOUS ENTANGLEMENT; DEHYDRATED.	SI	P1	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	5	18	SHOOTING	CLATSOP	OR	DEAD	BULLET HOLES	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	5	19	HOOK AND LINE FISHERY	SANTA BARBARA	CA	NSI	FISH HOOKS REMOVED FROM THIN ANIMAL BY REHAB CENTER, NO DETAILS ON LOCATION OF HOOKS.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2014	5	19	SHOOTING	CLATSOP	OR	DEAD	BULLET HOLES, EXTENSIVE HEMORRHAGE.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	5	21	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	ANIMAL WAS IN GOOD BODY CONDITION BUT HAD A FISHING GAFF PIERCING THROUGH HIS SKIN ABOVE HIS LEFT HIP.	SI	P12	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	5	23	HOOK AND LINE FISHERY	SANTA BARBARA	CA	SI	FISH HOOK IN MOUTH, REMOVED AT REHAB FACILITY, ANIMAL RELEASED.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2014	5	26	ENTRAPMENT	SANTA BARBARA	CA	DEAD	DROWNED. WAS TRAPPED UNDER POOL GRATE.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	5	27	GILLNET FISHERY	SANTA BARBARA	CA	NSI	GILLNET AROUND NECK. NET REMOVED AND WOUND CLEANED AT REHAB FACILITY	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2014	5	27	GILLNET FISHERY	SANTA BARBARA	CA	SI	GILLNET AROUND NECK. SENT TO REHAB FACILITY. NO FURTHER DETAILS.	SI	P8A	1	Y	Y
CALIFORNIA SEA LION	U.S.	2014	5	27	GILLNET FISHERY	SANTA BARBARA	CA	SI	GILLNET AROUND NECK. SENT TO REHAB FACILITY. NO FURTHER DETAILS.	SI	P8A	1	Y	Y
CALIFORNIA SEA LION	U.S.	2014	5	27	GILLNET FISHERY	SANTA BARBARA	CA	SI	GILLNET AROUND NECK. SENT TO REHAB FACILITY. NO FURTHER DETAILS.	SI	P8A	1	Y	Y
CALIFORNIA SEA LION	U.S.	2014	5	31	GILLNET FISHERY	ORANGE	CA	SI	GILLNET INJURY, EXPOSED TRACHEAL THYROID CARTILAGE. POLICE REMOVED THE FISHING LINE FROM AROUND THE ANIMAL'S NECK, ONCE DONE THEY	SI	P8A	1	Y	Y
CALIFORNIA SEA LION	U.S.	2014	5	31	SHOOTING	CLACKAMAS	OR	DEAD	BULLET HOLES, HEMORRHAGE.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	6	6	SHOOTING	MARIN	CA	DEAD	SMALL HOLE ABOUT RIGHT EYE SOCKET, WHICH IS ABOVE THE MAXILLA FRACTURE. SMALL CIRCULAR DIVOTS IN CHIN AND LOWER JAW AREA. NO BUCKSHOT IN HOLES AND THEY DID NOT TRACK DOWN THROUGH SUBCUTANEOUS TISSUE, WILL LOOK FOR BULLETS AND BUCKSHOT DURING PROCESSING OF SKULL. OLD BUCKSHOT HOLES IN CHIN MAXILLA IN NUMEROUS	DEAD	NA	1	N	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
CALIFORNIA SEA LION	U.S.	2014	6	8	HOOK AND LINE FISHERY	SANTA BARBARA	CA	NSI	LARGE FISHHOOK AND LINE, NO DETAILS, OTHER THAN ANIMAL SENT TO REHAB.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2014	6	19	HOOK AND LINE FISHERY	SANTA BARBARA	CA	SI	FISH HOOK IN LEFT LP, PNEUMONIA, GI TRACT INFECTIONS, QUARTS OF PUS REMOVED. SENT TO REHAB, FINAL OUTCOME UNKNOWN.	SI	P1	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	6	23	SHOOTING	PACIFIC	WA	DEAD	OBVIOUS BULLET HOLES	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	7	2	SCIENTIFIC RESEARCH	OFFSHORE	CA	SI	ADULT MALE SEA LION, 6-7 FEET IN LENGTH, APPROXIMATELY 200 LB, HOOKED DEEP IN MOUTH BY SCIENTIFIC LONGLINE. LEADER CUT APPROXIMATELY 10-INCHES FROM MOUTH. ANIMAL WAS FEISTY AND APPEARED TO BE IN GOOD CONDUCTION WHEN	SI	P2	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	7	17	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	LETHARGIC ON THE BEACH, OPEN MOUTH BREATHING, DECENT BODY CONDITION. FISH HOOK IN MOUTH. RESTRAND ANIMAL FROM FORT MAC, SHAVED "408" ON RIGHT HIP FISH HOOK WITH THE LINE HANGING FROM IT IN THE THROAT, BOTH LUNGS COLLAPSED FISH HOOK WITH THE LINE HANGING FROM IT IN THE THROAT.	SI	P2	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	7	23	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	FISHING HOOK EMBEDDED IN NECK WITH LINE. SENT TO REHAB, FINAL OUTCOME UNKNOWN.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	7	25	GILLNET FISHERY	VENTURA	CA	SI	ANIMAL WITH NETTING AROUND NECK. REHAB, FINAL OUTCOME UNKNOWN.	SI	P8A	1	Y	Y
CALIFORNIA SEA LION	U.S.	2014	7	28	HOOK AND LINE FISHERY	ORANGE	CA	SI	3 FISH HOOKS, MOUTH, FRONT AND REAR FLIPPER. ANIMAL SENT TO REHAB, FINAL OUTCOME UNKNOWN. A FEMALE CA SEA LION GOT CAUGHT ON A HOOK AND HAD TO HAVE THE GANGLION CUT. LOCATION OF HOOK IN MOUTH NOT DETAILED. OBSERVER PROGRAM.	SI	P5A	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	8	6	LIMITED ENTRY SABLEFISH HOOK AND LINE	OFFSHORE	CA	SI	HAULED OUT WITH A SILVER COLORED SALMON FLASHER	SI	P5A	1	Y	Y
CALIFORNIA SEA LION	U.S.	2014	8	9	HOOK AND LINE FISHERY	LINCOLN	OR	SI	HANGING FROM IT'S MOUTH.	SI	P2	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	8	12	OPEN ACCESS CA HALIBUT BOTTOM TRAWL	OFFSHORE	CA	NSI	ONE OF TWO CA SEA LIONS TRAPPED IN TRAWL NET DURING HAUL BACK. DUMPED ON DECK, BOTH DEPARTED VESSEL UNASSISTED WITH NO APPARENT INJURIES.	NSI	P4	0	N	N
CALIFORNIA SEA LION	U.S.	2014	8	12	OPEN ACCESS CA HALIBUT BOTTOM TRAWL	OFFSHORE	CA	NSI	ONE OF TWO CA SEA LIONS TRAPPED IN TRAWL NET DURING HAUL BACK. DUMPED ON DECK, BOTH DEPARTED VESSEL UNASSISTED WITH NO APPARENT INJURIES.	NSI	P4	0	N	N
CALIFORNIA SEA LION	U.S.	2014	8	23	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	KILLED BY GEAR	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2014	8	23	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	KILLED IN GEAR (DESCRIBED AS DEAD IN COMMENTS AND CATEGORIZED AS 'ENTANGLED IN GEAR', WHICH IS USUALLY RESERVED FOR ANIMALS RELEASED ALIVE)	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2014	8	26	VESSEL STRIKE	MONTEREY	CA	DEAD	PROPELLER STRIKE TO HEAD, DEEP GASH.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	9	1	SHOOTING	PACIFIC	WA	DEAD	BULLET HOLES, HEMORRHAGE.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	9	2	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	FISHING LINE COMING FROM MOUTH. MEMBERS OF PUBLIC REPORTEDLY PULLING ON LINE. HOOKS IN THROAT FOUND ON X-RAY.	SI	P2	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	9	8	SHOOTING	SAN MATEO	CA	DEAD	TWO BULLET ENTRY WOUNDS ON RIGHT SHOULDER AREA.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	9	9	SHOOTING	MARIN	CA	DEAD	GREEN TWINE TO LEFT FRONT FLIPPER. DURING SKULL PREPARATION PROCESS, A THROUGH AND THROUGH BULLET WOUND WAS NOTED. THE APPARENT ENTRY IS BEHIND THE RIGHT EYE SOCKET. THE EXIT IS LEFT REAR LATERAL SKULL AREA.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	9	15	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	KILLED BY GEAR	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2014	9	15	SHOOTING	SAN DIEGO	CA	SI	THIN AND EXTREMELY LETHARGIC, VETS LISTENED TO THE LUNGS AND THEY SOUNDED POOR. FOUND BULLETS AND YELLOWISH FLUID IN ABDOMEN X RAY.	SI	P12	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	9	18	GILLNET FISHERY	LOS ANGELES	CA	SI	THIN; ACTIVE ONLY TO TOUCH; HYPOTHERMIC; HEALING OLD GILL NET INJURY; INJURY ON LEFT FRONT FLIPPER; MALNUTRITION.	SI	P1	1	Y	Y
CALIFORNIA SEA LION	U.S.	2014	9	18	SHOOTING	CURRY	OR	DEAD	MULTIPLE HEAD AND TORSO GUNSHOT WOUNDS, PELLETS COLLECTED.	DEAD	NA	1	N	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
CALIFORNIA SEA LION	U.S.	2014	9	18	SHOOTING	VENTURA	CA	SI	CALL RECEIVED OF POSSIBLY INJURED CSL JUST W OF HUENEME PIER. PEOPLE HARASSING IT. SWIMS OUT TO GET AWAY, BUT COMES RIGHT BACK. BY THE TIME CIMWI VOLUNTEERS ARRIVED CSL HAD MOVED TO E OF THE PIER. APPEARED TO HAVE FISHING LURE IN MOUTH. CSL THIN, LETHARGIC. RESCUED. WHATEVER WAS IN MOUTH CAME OUT DURING RESCUE. POST NOTE-CSL EXPIRED DURING INTAKE/INITIAL TREATMENT. APPEARED TO HAVE AN ABSCESS ON THE L NECK/SHOULDER AREA WHICH WAS ASPIRATED- BLOOD & CLOTS WERE OBTAINED. AREA WAS OPENED- MASSIVE AMOUNTS OF FREE FLOWING BLOOD AND CLOTS WERE FOUND. AFTER CSL'S EXPIRATION, A QUICK NECROPSY WAS DONE. FOUND SMALL POINTED PROJECTILE FROM A PELLET GUN. UNABLE TO LOCATE ENTRY POINT.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	9	21	SHOOTING	SAN DIEGO	CA	SI	LETHARGIC, PEOPLE WERE CHASING IT INTO THE WATER AND THEN HE WOULD IMMEDIATELY COME BACK ONTO THE BEACH. WE NOTICED HE WASN'T FOCUSING ON ANYTHING AND BOTH EYES DRIFT INWARD. FOUND BULLET FRAGMENTS IN AND AROUND EYESOCKET DURING X-RAYS ON 9/24/2014.	SI	P12	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	9	27	SHORESIDE HAKE MIDWATER TRAWL	OFFSHORE	OR	DEAD	KILLED BY GEAR	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2014	10	3	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	KILLED BY GEAR	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2014	10	7	SHOOTING	SAN DIEGO	CA	SI	THIN, APPEARED TO BE BLIND. ANIMAL WAS DARTED. X-RAYED. FOUND BUCKSHOT IN THE FACE AND BODY. FOUR PRONGED BARBED FISHING HOOK WITH A 10" LURE ATTACHED HOOKED IN ANIMALS RT CORNER OF MOUTH.	SI	P12	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	10	9	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	HAD MONOFILAMENT ATTACHED TO LURE LEFT EYE APPEARS TO BE BLIND. VERY THIN/LETHARGIC DURING RESCUE. BUCKSHOT FOUND IN CRANIAL AREA DURING X-RAYS.	SI	PSA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	10	10	SHOOTING	SAN DIEGO	CA	SI	CONSTRUCTING INJURY AROUND TORSO AND LOWER NECK, APPEARS TO BE ROPE. PHOTO REVIEWED.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	10	13	MARINE DEBRIS	CLATSOP	OR	SI	SEAL BOMBS USED TO SCARE ANIMAL AWAY FROM CATCH. WORKED TEMPORARILY BUT ANIMAL RETURNED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2014	10	15	CATCH SHARES HOOK AND LINE	OFFSHORE	CA	NSI	SEAL BOMBS USED TO SCARE ANIMAL AWAY FROM CATCH. WORKED TEMPORARILY BUT ANIMAL RETURNED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2014	10	15	CATCH SHARES HOOK AND LINE	OFFSHORE	CA	NSI	SEAL BOMBS USED TO SCARE ANIMAL AWAY FROM CATCH. WORKED TEMPORARILY BUT ANIMAL RETURNED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2014	10	15	CATCH SHARES HOOK AND LINE	OFFSHORE	CA	NSI	SEAL BOMBS USED TO SCARE ANIMAL AWAY FROM CATCH. WORKED TEMPORARILY BUT ANIMAL RETURNED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2014	10	15	CATCH SHARES HOOK AND LINE	OFFSHORE	CA	NSI	SEAL BOMBS USED TO SCARE ANIMAL AWAY FROM CATCH. WORKED TEMPORARILY BUT ANIMAL RETURNED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2014	10	18	SHOOTING	SAN DIEGO	CA	SI	X-RAYS TAKEN SHOWED BULLET TRACK. BUCK SHOT IN ABDOMEN AND 2 BULLETS IN BACK.	SI	P12	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	10	19	OPEN ACCESS CA HALIBUT BOTTOM TRAWL	OFFSHORE	CA	NSI	ONE CA SEA LION WAS ENTANGLED INSIDE THE NET. THE ONE INSIDE THE NET WAS FEEDING ON THE CATCH. A SECOND CA SEA LION WAS SWIMMING BENEATH THE SURFACE. THE SEA LION STUCK IN THE NET SWAM INTO THE NET FROM THE SURFACE WHEN THE NET WAS BEING REELED BACK. THE SEA LION WAS RELEASED FROM THE NET IN THE WATER AND NEVER BOARDED THE VESSEL.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2014	10	22	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	KILLED BY GEAR, ONE OF THREE ANIMALS IN SINGLE	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2014	10	22	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	KILLED BY GEAR, ONE OF THREE ANIMALS IN SINGLE	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2014	10	22	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	KILLED BY GEAR, ONE OF THREE ANIMALS IN SINGLE	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2014	10	22	HOOK AND LINE FISHERY	VENTURA	CA	SI	LINE AROUND NECK AT CHANNEL ISLANDS HARBOR MARINA. DARTED WITH TRANQUILIZER. LINE REMOVED. TRANQUILIZER REVERSED AND CSL RELEASED.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2014	10	23	SHOOTING	SAN DIEGO	CA	SI	BULLET IN SHOULDER (X-RAYS TAKEN 10/24/14) BONE WAS STARTING TO FUSE NOT GIVING SUFFICIENT RANGE OF MOTION. EUTHANIZED DUE TO POOR PROGNOSIS.	DEAD	NA	1	N	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
CALIFORNIA SEA LION	U.S.	2014	10	26	GAFF INJURY	SAN DIEGO	CA	SI	ANIMAL WAS ALERT AND IN GOOD BODY CONDITION. ABILITY TO MANEUVER WAS LIMITED DUE TO A LARGE GAFF IN THE RIGHT SHOULDER WITH 5" HOOK. WE WERE ABLE TO REMOVE THE HOOK FROM THE ANIMALS SHOULDER. THE HOOK MADE 3 SEPERATE PUNCTURES. TREATED AT REHAB FACILITY, OUTCOME UNKNOWN.	SI	P12	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	10	27	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	KILLED IN GEAR	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2014	10	27	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	GOOD BODY CONDITION, ALERT. HAD MONOFILAMENT WRAPPED AROUND NECK WITH HALF OF ITS NECK LACERATED. ANIMAL WAS DARTED. NO DETAILS ON OUTCOME.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	10	29	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	KILLED IN GEAR	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2014	11	3	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	KILLED IN GEAR	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2014	11	4	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM, ONE OF THREE ANIMALS IN SET	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2014	11	4	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM, ONE OF THREE ANIMALS IN SET	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2014	11	4	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM, ONE OF THREE ANIMALS IN SET	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2014	11	6	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	KILLED BY GEAR	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2014	11	12	HOOK AND LINE FISHERY	ORANGE	CA	SI	FISH HOOK LEFT SIDE OF MOUTH, WOUNDS ON ABDOMEN. TREATED AT REHAB. OUTCOME UNKNOWN. GOOD BODY CONDITION/TEARING. VERTICAL SCAR ALONG THE TRACHEA 2 INCHES LONG FISHING LINE IMBEDDED AROUND NECK EXCEPT FOR 3-4 INCHES ON VENTRAL SIDE OF NECK, SAW DISCHARGE (COULD NOT SEE FISHING LINE DUE AT TIME OF RESCUE TO BEING CONSTRUCTING ENTANGLEMENT AROUND NECK, MATERIAL UNKNOWN. PHOTO REVIEWED.	SI	P5A	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	11	13	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	GOOD BODY CONDITION, FISHING LINE EMBEDDED AROUND THE NECK.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	11	19	MARINE DEBRIS	GRAYS HARBOR	WA	SI	BULLET HOLES, HEMORRHAGE.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	11	24	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	FISH HOOK ABOVE RIGHT EYE AND SIDE OF BODY, UNDERWEIGHT.	NSI	P5B	0	N	N
CALIFORNIA SEA LION	U.S.	2014	11	25	SHOOTING	CLATSOP	OR	DEAD	A LITTLE THIN, SWOLLEN RIGHT SHOULDER WITH OOZING WOUND. X RAYS SHOWED 3 BULLET FRAGMENTS, 2 ABOVE THE SHOULDER AND 1 AT ZYGOMATIC ARCH. UNABLE TO BE REMOVED.	SI	P12	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	12	1	SHOOTING	SAN DIEGO	CA	SI	LACERATION AROUND NECK, EMACIATED.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	12	12	MARINE DEBRIS	MONTEREY	CA	SI	THIN, DEHYDRATED, SWOLLEN RIGHT SHOULDER. X RAYS SHOWED BULLET IN LEFT SHOULDER.	SI	P12	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	12	23	SHOOTING	SAN DIEGO	CA	SI	CONSTRUCTING ENTANGLEMENT AROUND NECK, UNKNOWN MATERIAL. PHOTO REVIEWED.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	12	24	MARINE DEBRIS	CLATSOP	OR	SI	SHOT IN HEAD, PELLET HOLES, BROKEN BONES, HEMORRHAGE.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	12	25	SHOOTING	PACIFIC	WA	DEAD	THIN ADULT MALE WITH SIGNS OF TRAUMA TO HEAD AREA. BOTH EYES CLOSED, UNABLE TO OPEN. ANIMAL WAS ALSO WEAK. BLOOD SQUIRTED FROM BOTH EYES WHEN RESCUE WAS ATTEMPTED. REPORTS OF ANIMAL ROLLING IN SURFLINE FROM STONE STEPS TO MOONLIGHT BEACH. 12/26/14 X RAYS CONFIRMED GUN SHOTS TO HEAD, NECK AND SHOULDER AREA X RAYS	SI	P12	1	N	Y
CALIFORNIA SEA LION	U.S.	2014	12	25	SHOOTING	SAN DIEGO	CA	SI	FISH HOOK REMOVED FROM LEFT FRONT FLIPPER; THIN; MALNUTRITION.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2014	12	30	HOOK AND LINE FISHERY	LOS ANGELES	CA	NSI	EMACIATED, HOOKS ON FLIPPER, WOUND ON MUZZLE. TREATED IN REHAB AND RELEASED.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2015	1	1	HOOK AND LINE FISHERY	ORANGE	CA	NSI	UNDERWEIGHT ANIMAL WITH FISHING LINE AROUND FEEDING ON CATCH THROUGH NET, SCARED OFF BY YELLING.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	1	3	HOOK AND LINE FISHERY	MONTEREY	CA	DEAD		DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	1	7	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	NSI		NSI	P4	0	N	N

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
CALIFORNIA SEA LION	U.S.	2015	1	7	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	NSI	FEEDING ON CATCH THROUGH NET, SCARED OFF BY YELLING.	NSI	P4	0	N	N
CALIFORNIA SEA LION	U.S.	2015	1	9	CATCH SHARES BOTTOM TRAWL	OFFSHORE	WA	NSI	CAUGHT IN TRAWL NET, DUMPED ON BACK DECK, JUMPED OVERBOARD, LOOKED UNHARMED.	NSI	P4	0	N	N
CALIFORNIA SEA LION	U.S.	2015	1	15	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	NSI	SMALL SEA LION BOARDED VESSEL AND REFUSED TO EXIT. TRANSPORTED TO SHORE WHERE IT WAS PICKED UP BY MARINE MAMMAL RESCUE TEAM.	NSI	P4	0	N	N
CALIFORNIA SEA LION	U.S.	2015	1	16	MARINE DEBRIS	LINCOLN	OR	SI	WHITE PLASTIC PACKING BAND CUTTING INTO FLESH AROUND THE NECK. THE ANIMAL HAS BEEN SIGHTED SEVERAL TIMES HAULED OUT ON PORT DOCK #1, AND IS ALERT AND ACTIVE.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	1	16	SHOOTING	SAN JOAQUIN	CA	SI	EUTHANIZED IN REHAB. BULLET / PELLET RECOVERED POSTMORTEM. ANIMAL ALSO HAD 'FANBELT' AROUND NECK WHEN FIRST ENCOUNTERED.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	1	17	VEHICLE COLLISION	VENTURA	CA	DEAD	DIED AT SITE	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	1	18	MARINE DEBRIS	GRAYS HARBOR	WA	SI	ANIMAL WITH WHITE PACKING BAND TIGHTLY AROUND NECK.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	1	20	SHOOTING	PACIFIC	WA	DEAD	SHOTGUN PELLET HOLES/MARKS IN LEFT NECK AND HEAD; ROBUST BODY CONDITION; LEFT INTRAORBITAL AREA FRAGMENTED WITH ASSOCIATED HEMORRHAGE.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	1	24	HOOK AND LINE FISHERY	VENTURA	CA	SI	ANIMAL FOUND WITH LINE AROUND NECK, TAKEN TO REHAB FACILITY. OUTCOME UNKNOWN.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	1	24	OIL / TAR	SAN LUIS OBISPO	CA	SI	MODERATELY UNDERWEIGHT, WOUND ON BACK OF HEAD, DISORIENTED. TAR ON BELLY. TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2015	1	25	HOOK AND LINE FISHERY	ORANGE	CA	SI	UNDERWEIGHT, DEHYDRATED, MUSCLE EDEMA ON MUZZLE, FISH HOOK RIGHT SIDE OF MOUTH AND RIGHT FLIPPER. TREATED AT REHAB AND RELEASED.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2015	1	26	GILLNET FISHERY	MONTEREY	CA	SI	UNDERWEIGHT ANIMAL ENTANGLED IN MONOFILAMENT NETTING AROUND NECK. TREATED IN REHAB AND RELEASED.	NSI	P7B	0	Y	N
CALIFORNIA SEA LION	U.S.	2015	1	27	DOG ATTACK	SAN LUIS OBISPO	CA	SI	PUBLIC WITNESSED EMACIATED ANIMAL BEING BITTEN BY DOG. TRANSFERRED TO REHAB, TREATED AND RELEASED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2015	1	29	GILLNET FISHERY	SAN DIEGO	CA	SI	GILLNET AROUND NECK. TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P7B	0	Y	N
CALIFORNIA SEA LION	U.S.	2015	1	30	OPEN ACCESS CA HALIBUT BOTTOM TRAWL	OFFSHORE	CA	NSI	SEA LION DUMPED OUT OF NET ON DECK. JUMPED OVERBOARD WITHOUT APPARENT INJURIES.	NSI	P4	0	N	N
CALIFORNIA SEA LION	U.S.	2015	2	1	HOOK AND LINE FISHERY	ORANGE	CA	NSI	UNDERWEIGHT ANIMAL WITH FISH HOOK IN LEFT FOREFLIPPER. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	1	OIL / TAR	SAN MATEO	CA	SI	LETHARGIC, EMACIATED, TAR ON RIGHT CHEST. TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2015	2	2	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	UNDERWEIGHT; HYPERTHERMIC; FISH HOOK IN ESOPHAGUS; FISH LINE IN MOUTH. TREATED AT REHAB FACILITY AND RELEASED.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2015	2	2	MARINE DEBRIS	VENTURA	CA	SI	ANIMAL DISENTANGLED FROM UNREPORTED MATERIAL IN SITU.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2015	2	4	OIL / TAR	SANTA BARBARA	CA	SI	EMACIATED, TAR ALL OVER UNDERSIDE OF BODY. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	5	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	UNDERWEIGHT AND EMACIATED PUP. FISHING HOOK IN TONGUE. TREATED AT REHAB FACILITY AND RELEASED. ASSUMED DEPENDENT ANIMAL RELEASED ALONE.	SI	P14	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	5	VESSEL STRIKE	SAN DIEGO	CA	SI	PROPELLER WOUNDS FROM THE MIDDLE OF THE BACK EXTENDING TO THE REAR FLIPPERS AND AROUND MAJORITY OF TORSO. EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	6	MARINE DEBRIS	SANTA CRUZ	CA	SI	UNDERWEIGHT ANIMAL ENTANGLED IN UNDESCRIBED MARINE DEBRIS. EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	8	HOOK AND LINE FISHERY	ORANGE	CA	NSI	UNDERWEIGHT ANIMAL WITH FISH HOOK IN LEFT REAR FLIPPER. TREATED IN REHAB AND RELEASED.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2015	2	8	MARINE DEBRIS	SANTA BARBARA	CA	SI	UNDERWEIGHT ANIMAL ENTANGLED IN UNDESCRIBED MARINE DEBRIS. EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	8	MARINE DEBRIS	CLATSOP	OR	SI	APPEARS TO HAVE A HEALING NECK WOUND FROM A PREVIOUS ENTANGLEMENT, BLOOD AROUND THE WOUND APPEARS TO BE A ROSY PINK. PSU15-02-08A-ENT-2C	NSI	P7B	0	N	N

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
CALIFORNIA SEA LION	U.S.	2015	2	8	MARINE DEBRIS	CLATSOP	OR	SI	APPEARS TO BE A SINGLE BAND TYPE OF ENTANGLEMENT AROUND THE NECK AREA, ENTANGLEMENT APPEARS TO BE RELATIVELY DEEP BUT CAN'T SEE ACTUAL FLESH OR BLOOD AROUND THE WOUND IN THE PHOTOS.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	9	HOOK AND LINE FISHERY	SAN DIEGO	CA	NSI	FISHING HOOK THROUGH THE SKIN ABOUT THE LEFT FRONT FLIPPER. TREATED / RELEASED FROM REHAB	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2015	2	9	HOOK AND LINE FISHERY	ORANGE	CA	SI	TAR ON NECK, FISH HOOK IN LIP, UNDERWEIGHT. ANIMAL TREATED IN REHAB AND RELEASED.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2015	2	9	MARINE DEBRIS	SANTA CRUZ	CA	SI	UNDERWEIGHT ANIMAL ENTANGLED IN UNDESCRIBED MARINE DEBRIS. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	9	SHOOTING	GRAYS HARBOR	OR	DEAD	MUMMIFIED CARCASS WITH SKULL EXPOSED, CAN SEE BULLET ENTRY AND EXIT DAMAGE TO SKULL.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	10	GILLNET FISHERY	LOS ANGELES	CA	SI	GILLNET ENTANGLEMENT WOUND AROUND NECK, EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	2	10	MARINE DEBRIS	ORANGE	CA	SI	2 INCH WIDE RUBBER BAND AROUND NECK OF UNDERWEIGHT ANIMAL. TREATED AT REHAB AND RELEASED.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2015	2	11	MARINE DEBRIS	SANTA CRUZ	CA	SI	UNDERWEIGHT ANIMAL ENTANGLED IN UNDESCRIBED MARINE DEBRIS. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	11	OIL / TAR	SANTA BARBARA	CA	SI	EMACIATED, TAR PATCHES ON CHIN AND CHEST. TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2015	2	11	SHOOTING	SAN FRANCISCO	CA	DEAD	HOLE CONSISTENT WITH SHOOTING / TRACKING WOUND FOUND ON DECOMPOSING ANIMAL.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	13	OIL / TAR	SANTA BARBARA	CA	SI	EMACIATED. SMALL PATCH OF TAR ON RIGHT HIP. EUTHANIZED IN REHAB.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	14	GILLNET FISHERY	SAN LUIS OBISPO	CA	SI	GREEN MONOFILAMENT NETTING AROUND NECK WITH MULTIPLE KNOTS AND FREE EXPOSED DANGLING LINES, WOUND SUPERFICIAL CUTTING INTO SUBCUTANEOUS TISSUE ONLY, SMALL TAR PATCH ON RIGHT HIP AREA, MODERATELY UNDERWEIGHT. TREATED IN REHAB AND RELEASED.	NSI	P7B	0	Y	N
CALIFORNIA SEA LION	U.S.	2015	2	14	HOOK AND LINE FISHERY	ORANGE	CA	SI	FISH HOOK IN THROAT. EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	15	HOOK AND LINE FISHERY	ORANGE	CA	SI	MULTIPLE FISH HOOKS ON BODY RIGHT FRONT FLIPPER, UNDER RIGHT EYE, LEFT SHOULDER AND RIGHT LOWER LIP. EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	16	HOOK AND LINE FISHERY	MONTEREY	CA	DEAD	FISHING LINE AROUND NECK.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	17	MARINE DEBRIS	SONOMA	CA	SI	ENTANGLEMENT SCAR AROUND NECK, PREVIOUS TAG HOLES IN BOTH FRONT FLIPPERS BUT NO TAG PRESENT. MODERATELY UNDERWEIGHT. ANIMAL DIED IN REHAB.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	18	GILLNET FISHERY	MONTEREY	CA	SI	UNDERWEIGHT LETHARGIC ANIMAL ENTANGLED IN MONOFILAMENT NETTING. DIED IN REHAB.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	2	18	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	FISH HOOK IN MOUTH WITH ABOUT 4 INCHES OF MONOFILAMENT LINE. NARRATIVE INDICATED THAT REHAB FACILITY REMOVED LINE, BUT DID NOT MENTION HOOK. ASSUMED THAT HOOK REMAINS IN MOUTH POST-RELEASE. EMACIATED MALNURISHED PUP WITH MUCUS ON RIGHT EYE.	SI	P5A	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	18	HOOK AND LINE FISHERY	SANTA CRUZ	CA	DEAD	CARCASS FOUND WITH MONOFILAMENT LINE. DETAILS LACKING.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	19	HOOK AND LINE FISHERY	ORANGE	CA	NSI	FISH HOOKS INDICATED ON LEFT AND RIGHT FLIPPERS. EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	19	HOOK AND LINE FISHERY	ORANGE	CA	SI	FISHING HOOKS IN LEFT FLIPPER PIT AND RIGHT FRONT FLIPPER. TREATED IN REHAB AND RELEASED.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2015	2	19	HOOK AND LINE FISHERY	ORANGE	CA	NSI	UNDERWEIGHT, FISH HOOK LEFT REAR FLIPPER. DIED IN REHAB.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	19	HOOK AND LINE FISHERY	VENTURA	CA	SI	ANIMAL ENTANGLED IN MONOFILAMENT LINE. TREATED AT REHAB FACILITY.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2015	2	20	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	FISHING HOOK REMOVED FROM MOUTH. EMACIATED MALNURISHED PUP. ASSUMED DEPENDENT ANIMAL RELEASED ALONE AFTER TREATMENT AT REHAB FACILITY.	SI	P14	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	21	DOG ATTACK	LOS ANGELES	CA	DEAD	DOG BITES ON NECK. LOOKS LIKE ANIMAL HAD BEEN SHAKEN.	DEAD	NA	1	N	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
CALIFORNIA SEA LION	U.S.	2015	2	21	HOOK AND LINE FISHERY UNIDENTIFIED HUMAN INTERACTION	LOS ANGELES	CA	SI	UNDERWEIGHT ANIMAL WITH HOOK IN MOUTH. TREATED AT REHAB FACILITY AND RELEASED.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2015	2	21	HOOK AND LINE FISHERY UNIDENTIFIED HUMAN INTERACTION	MENDOCINO	CA	DEAD	HEAD WAS REMOVED FOR UNKNOWN REASON. EMACIATED, TAR PATCH ON RIGHT FRONT FLIPPER DORSAL SIDE. DIED AT REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	23	OIL / TAR	SANTA BARBARA	CA	SI	LETHARGIC, MONOFILAMENT NETTING CUTTING INTO NECK, MODERATELY UNDERWEIGHT, RIGHT EYE CLOUDY. ANIMAL DIED IN REHAB.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	2	24	GILLNET FISHERY	SAN LUIS OBISPO	CA	SI	UNDERWEIGHT AND HYPOTHERMIC ANIMAL WITH TAR ON FACE AND BODY ABOVE SHOULDER. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	25	OIL / TAR	LOS ANGELES	CA	SI	EMACIATED, COUGHING, MULTIPLE TAR PATCHES DORSAL SIDE. DIED AT REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	25	OIL / TAR	SANTA BARBARA	CA	SI	UNDERWEIGHT, LETHARGIC, OILED ANIMAL DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	25	OIL / TAR	SAN LUIS OBISPO	CA	SI	UNDERWEIGHT ANIMAL WITH TAR ON FLIPPER AND SHOULDER EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	25	OIL / TAR	SANTA BARBARA	CA	SI	EMACIATED ANIMAL WITH PNEUMONIA, TAR ON RIGHT FRONT FLIPPER AND SHOULDER. ANIMAL DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	25	OIL / TAR	SANTA BARBARA	CA	SI	UNDERWEIGHT, LARGE LACERATIONS ON LOWER BACK CONSISTENT WITH PROPELLER INJURY. EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	25	VESSEL STRIKE	ORANGE	CA	SI	COUGHING, EMACIATED, TAR ON CHEST AND MUZZLE. TREATED AND RELEASED FROM REHAB.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2015	2	26	OIL / TAR	SAN LUIS OBISPO	CA	SI	EMACIATED, TAR PATCH ON RIGHT DORSAL 3X5 CM. EUTHANIZED AT REHAB CENTER.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	26	OIL / TAR	SANTA BARBARA	CA	SI	ODFW CONFIRMED ENTANGLEMENT AND IS CURRENTLY MONITORING THE ANIMAL. THERE APPEARS TO BE A SMALL SECTION OF GILL NET WRAPPED AROUND THE SEA LIONS FACE. ONE SQUARE OF GILL NET IS TIGHT WRAPPED AROUND THE FACE AND RUNS DOWN THE MIDDLE OF THE LEFT EYE, CAUSING THE LEFT EYE TO STAY CLOSED. THE LINE IS ORIENTATED BETWEEN THE EAR AND EAR ON THE RIGHT SIDE. NO BLOOD OR OPEN WOUND FROM ENTANGLEMENT NOTED.	SI	P8A	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	2	27	GILLNET FISHERY	CLATSOP	OR	SI	UNDERWEIGHT PUP WITH TAR PATCHES ON DORSUM. TREATED AND RELEASED FROM REHAB. ASSUMED DEPENDENT ANIMAL RELEASED ALONE.	SI	P14	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	27	OIL / TAR	SANTA BARBARA	CA	SI	EMACIATED, TAR PATCH ON LEFT SHOULDER. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	27	OIL / TAR	SANTA BARBARA	CA	SI	EMACIATED, TAR PATCHES ON BOTH FRONT FLIPPERS AND BACK. EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	28	OIL / TAR	SAN FRANCISCO	CA	SI	UNDERWEIGHT, LETHARGIC, OILED ANIMAL DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	28	OIL / TAR	SANTA BARBARA	CA	SI	EMACIATED, TAR ON MUZZLE, CHIN, LEFT HIND FLIPPER, AND LEFT HIP. EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	2	28	VEHICLE COLLISION	SAN DIEGO	CA	DEAD	DIED AT SITE	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	3	1	OIL / TAR	SANTA BARBARA	CA	SI	EMACIATED, TAR PATCH ON RIGHT HIP AND CAUDAL ABDOMEN. TREATED AT REHAB FACILITY. FINAL OUTCOME UNKNOWN.	SI	P9	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	3	1	SHOOTING	CLATSOP	OR	DEAD	EXCELLENT BODY CONDITION; SUBSTANTIAL AMOUNT OF BLOODY FLUID IN THORACIC CAVITY; TREMENDOUS HEMORRHAGE ASSOCIATED WITH UNDERWEIGHT, LETHARGIC, OILED ANIMAL DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	3	2	OIL / TAR	SAN MATEO	CA	SI	ANIMAL WAS FOUND ON TRAIN TRACKS NEAR TRAIN STATION, COMATOSE, JAW BROKEN BLOOD COMING FROM MOUTH. EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	3	2	VEHICLE COLLISION	ORANGE	CA	SI	ANIMAL WITH FISH HOOK IN CHEST THAT FELL OUT WHEN RESCUED. ANIMAL DIED IN REHAB.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	3	7	HOOK AND LINE FISHERY	MONTEREY	CA	NSI	TAR ON DORSAL PART OF BODY. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	3	7	OIL / TAR	SAN LUIS OBISPO	CA	SI	TAR ON DORSAL PART OF BODY. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y

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Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
CALIFORNIA SEA LION	U.S.	2015	3	8	HOOK AND LINE FISHERY	ORANGE	CA	SI	EMACIATED, DEHYDRATED, 2 TREBLE HOOKS IN MOUTH, 1 LARGE HOOK REAR FLIPPER, FISHING LINE. TREATED AT REHAB FACILITY AND RELEASED.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2015	3	8	MARINE DEBRIS	CLATSOP	OR	SI	SIGHTED IN THE EAST MOORING BASIN WITH A THIN WHITE LINE/ROPE AROUND THE NECK AREA. POSSIBLY 1/16-1/8" LINE. PHOTOS SHOWS LINE IS CONSTRICTING	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	3	8	UNIDENTIFIED FISHERY INTERACTION	SAN MATEO	CA	DEAD	GREEN TWINE ENTANGLEMENT.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	3	8	UNIDENTIFIED HUMAN INTERACTION	LOS ANGELES	CA	SI	PUNCTURE WOUNDS ON JAW AND APPARENT 'BRANDING' WOUND. ANIMAL DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	3	9	MARINE DEBRIS	DEL NORTE	CA	SI	UNDERWEIGHT ANIMAL ENTANGLED IN UNKNOWN MATERIAL. DIED AT REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	3	10	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	HYPERTHERMIA. LESIONS ON ALL FLIPPERS; 3 FISH HOOKS EMBEDDED. TREATED IN REHAB FACILITY AND RELEASED. ANIMAL ENTANGLED IN MONOFILAMENT NETTING.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2015	3	14	GILLNET FISHERY	MONTEREY	CA	SI	ANIMAL WAS DARTED FOR CAPTURE AND TRANSFER TO REHAB, BUT DROWNED BEFORE CAPTURE.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	3	14	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	2 FISH HOOKS EMBEDDED; HYPERTHERMIC; DEEP LACERATION UNDER CHIN; PARASITISM. DIED IN REHAB FACILITY. NO DETAILS ON SEVERITY OF HOOK PLACEMENT.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	3	14	UNIDENTIFIED FISHERY INTERACTION	SANTA CRUZ	CA	SI	UNDERWEIGHT ANIMAL WITH ENTANGLEMENT SCAR ON NECK DIED IN REHAB.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	3	16	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	UNDERWEIGHT AND DEHYDRATED. FISH HOOK IN FRONT UPPER LEFT LIP. TREATED IN REHAB AND RELEASED.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2015	3	17	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	UNDERWEIGHT AND LETHARGIC. HOOK IN RIGHT SIDE OF MOUTH. DIAGONAL NECK WOUND ACROSS THROAT. TREATED IN REHAB FACILITY AND RELEASED.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2015	3	17	OIL / TAR	SAN DIEGO	CA	SI	LESS THAN 2% EXTERNAL OILING SEEN. TREATED IN REHAB, RELEASED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2015	3	17	OIL / TAR	SAN DIEGO	CA	SI	LESS THAN 2% EXTERNAL OILING SEEN. DIED IN REHAB. ANIMAL EUTHANIZED. FIVE RUBBER BULLETS FOUND DURING SURGERY. ONLY ABLE TO REMOVE THREE AS BRAIN WAS EXPOSED.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	3	17	SHOOTING	SAN DIEGO	CA	SI	FISHING HOOK IN LEFT SIDE OF MOUTH. ANIMAL HAVING SEIZURES. EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	3	18	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	UNDERWEIGHT ANIMAL ENTANGLED AT BASE OF NECK IN FISHING LINE. TREATED IN REHAB FACILITY, OUTCOME UNKNOWN.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	3	18	HOOK AND LINE FISHERY	MONTEREY	CA	SI	ANIMAL WITH FISHING LINE AND HOOKS DIED IN REHAB FACILITY. DETAILS ON HOOK PLACEMENT NOT PROVIDED.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	3	18	HOOK AND LINE FISHERY	MONTEREY	CA	SI	UNDERWEIGHT ANIMAL WITH FISH HOOKS IN RIGHT FLIPPER. EUTHANIZED AT REHAB FACILITY DUE TO OTHER SYMPTOMS INCLUDING PNEUMONOPATHY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	3	19	HOOK AND LINE FISHERY	ORANGE	CA	NSI	UNDERWEIGHT, LETHARGIC. TAR BENEATH THE LEFT FLIPPER AND ON THE LEFT FLIPPER. TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2015	3	19	OIL / TAR	SAN DIEGO	CA	SI	FISH HOOK AND LEAD WEIGHT IN MOUTH. TREATED IN REHAB FACILITY AND RELEASED.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2015	3	20	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	UNDERWEIGHT LETHARGIC ANIMAL ENTANGLED IN MONOFILAMENT NETTING. DIED IN REHAB.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	3	22	GILLNET FISHERY	MONTEREY	CA	SI	FISH HOOKS BY NOSTRIL. EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	3	22	HOOK AND LINE FISHERY	ORANGE	CA	DEAD	HOOK AND MONOFILAMENT IN ESOPHAGUS. EUTHANIZED AT REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	3	22	HOOK AND LINE FISHERY	ORANGE	CA	SI	UNDERWEIGHT ANIMAL WITH A FISH HOOK IN THE FACE. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	3	23	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	UNDERWEIGHT ANIMAL WITH OIL PARTICLES AND SIGNIFICANT BIOCHEMICAL ABNORMALITIES; ANEMIA. ANIMAL FOUND ON FREEWAY. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	3	23	OIL / TAR	LOS ANGELES	CA	SI	EMACIATED ANIMAL WITH FISHING HOOK IN LEFT FLIPPER. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	3	25	HOOK AND LINE FISHERY	SAN DIEGO	CA	NSI	HOOKS BETWEEN EYES, FISHING LINE AROUND CHEST.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	3	25	HOOK AND LINE FISHERY	MONTEREY	CA	SI	ENTANGLED IN 'CRAB POTS', DIED IN REHAB FACILITY.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	3	25	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	MONTEREY	CA	SI		DEAD	NA	1	Y	Y

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CALIFORNIA SEA LION	U.S.	2015	3	26	GILLNET FISHERY	SANTA BARBARA	CA	SI	MONOFILAMENT NETTING. DIED IN REHAB FACILITY. DETAILS NOT PROVIDED.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	3	27	OIL / TAR	LOS ANGELES	CA	SI	UNDERWEIGHT ANIMAL WITH SEIZURES WITH TAR ON FLANK AND SHOULDER. EUTHANIZED AT REHAB FACILITY. EVIDENCE COLLECTED FROM PELVIS; ENTRANCE AND EXIT HOLE AND TRACK IN NECK; LEFT SIDE OF SNOUT CUT OFF (PROPELLER?); MODERATE AMOUNT OF BLOODY FLUID IN THORACIC AND ABDOMINAL CAVITIES; ANIMAL HAD EXCELLENT BODY CONDITION.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	3	28	SHOOTING	CLATSOP	OR	DEAD	FISHING LINE ATTACHED TO FLIPPER AND MOUTH. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	3	30	HOOK AND LINE FISHERY	SANTA CRUZ	CA	SI	UNDERWEIGHT ANIMAL WITH TAR ON FLIPPERS. DIED AT REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	3	30	OIL / TAR	LOS ANGELES	CA	SI	UNDERWEIGHT ANIMAL WITH SEIZURES WITH TAR ON FLIPPERS. EUTHANIZED AT REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	3	31	SCIENTIFIC RESEARCH	SAN MIGUEL ISLAND	CA	DEAD	DATABASE DETAILS LACKING.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	1	OIL / TAR	LOS ANGELES	CA	SI	UNDERWEIGHT ANIMAL WITH SEIZURES WITH TAR ON FLIPPERS. EUTHANIZED AT REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	2	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	FISHING HOOK IN LEFT REAR FLIPPER. UNDERWEIGHT ANIMAL TREATED IN REHAB FACILITY AND RELEASED.	NSI	PSC	0	N	N
CALIFORNIA SEA LION	U.S.	2015	4	2	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	FISHING HOOK IN MOUTH AND IN REAR LEFT FLIPPER. TREATED AT REHAB FACILITY AND RELEASED.	NSI	PSC	0	N	N
CALIFORNIA SEA LION	U.S.	2015	4	3	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	FISHING HOOKS FOUND IN LOWER RIGHT SIDE OF JAW (1), RIGHT FRONT FLIPPER (1), LEFT SHOULDER (2), AND TWO REMOVED FROM STOMACH. TAR ON LEFT SHOULDER AND NEAR RIGHT EAR. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	3	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	UNDERWEIGHT ANIMAL WITH FISH HOOK IN LOWER LEFT JAW. TREATED IN REHAB FACILITY AND RELEASED.	NSI	PSC	0	N	N
CALIFORNIA SEA LION	U.S.	2015	4	4	HOOK AND LINE FISHERY	LOS ANGELES	CA	NSI	HYPERTHERMIC. 2 FISH HOOKS IN LEFT REAR FLIPPER. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	4	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	UNDERWEIGHT ANIMAL WITH FISHING LINE AROUND MOUTH AREA. TREATED IN REHAB FACILITY AND RELEASED.	NSI	PBB	0	N	N
CALIFORNIA SEA LION	U.S.	2015	4	4	SHOOTING	CLATSOP	OR	DEAD	TWO PENETRATING HOLES IN THE THORACIC AND ABDOMINAL CAVITIES WITH ASSOCIATED HEMORRHAGE; OTHER AREAS OF HEMORRHAGE IN HEAD AND BODY; INTESTINES TIGHTLY TWISTED; ANIMAL HAD EXCELLENT BODY CONDITION.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	5	GILLNET FISHERY	MONTEREY	CA	SI	MONOFILAMENT NETTING ENTANGLEMENT. TREATED AT REHAB FACILITY, OUTCOME UNKNOWN.	SI	P8A	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	4	5	HOOK AND LINE FISHERY	LOS ANGELES	CA	NSI	LETHARGIC ANIMAL WITH HOOK IN LEFT FOREFLIPPER. TREATED IN REHAB AND RELEASED.	NSI	PSC	0	N	N
CALIFORNIA SEA LION	U.S.	2015	4	5	HOOK AND LINE FISHERY	ORANGE	CA	SI	FISHING LINE AND HOOKS. LOCATION NOT GIVEN. EUTHANIZED IN REHAB FACILITY. NECROPSY INDICATED ULCERATIVE GASTROPATHY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	5	SHOOTING	CLATSOP	OR	DEAD	SKULL DAMAGE INCLUDED BULLET TRACK THROUGH EYE ORBITS & OTHER BONE DAMAGE.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	6	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	UNDERWEIGHT AND DEHYDRATED. ANIMAL HAD HOOK IN MOUTH WHEN PICKED UP. ANIMAL REMOVED IT EN ROUTE TO SEAWORLD SAN DIEGO. TREATED IN REHAB AND RELEASED.	NSI	PSC	0	N	N
CALIFORNIA SEA LION	U.S.	2015	4	6	SHOOTING	SAN DIEGO	CA	SI	GUNSHOT PELLETS FOUND POSTMORTEM. ANIMAL EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	7	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	7	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	7	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	7	GILLNET FISHERY	MONTEREY	CA	SI	MONOFILAMENT NETTING, INJURY DETAILS NOT PROVIDED, ASSUMED SERIOUS INJURY. ANIMAL TREATED AT REHAB FACILITY, OUTCOME UNKNOWN.	SI	P8A	1	Y	Y

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CALIFORNIA SEA LION	U.S.	2015	4	7	HOOK AND LINE FISHERY	CLATSOP	OR	SI	RED FISHING LURE HANGING FROM THE LEFT CORNER OF THE LOWER JAW. PHOTO SHOWS HOOKS ARE LIKELY INSIDE LEFT CORNER OF MOUTH.	SI	PSA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	7	HOOK AND LINE FISHERY	MONTEREY	CA	SI	DIED IN REHAB FACILITY. HOOK, FISHING LURE, AND LINE FOUND.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	8	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	8	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	8	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	8	HOOK AND LINE FISHERY	MONTEREY	CA	SI	FISH HOOKS, DETAILS NOT GIVEN. ANIMAL DIED IN REHAB.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	8	HOOK AND LINE FISHERY	SAN LUIS OBISPO	CA	SI	HOOK IN CHEST WITH LINE. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	8	OIL / TAR	SAN LUIS OBISPO	CA	SI	EMACIATED, CONGESTED AND COUGHING, TAR PATCHES ON BACK. BAD LOCATION- POPULAR DOG BEACH. EUTHANIZED AT REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	11	HOOK AND LINE FISHERY	ORANGE	CA	SI	FISH HOOKS IN MOUTH. DIED AT REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	11	HOOK AND LINE FISHERY	MONTEREY	CA	SI	FISHING LURE, HOOK AND LINE ENTANGLEMENT. DIED AT REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	12	HOOK AND LINE FISHERY	ORANGE	CA	SI	UNDERWEIGHT ANIMAL WITH FISH HOOKS IN MOUTH. TREATED IN REHAB FACILITY AND RELEASED.	NSI	PSC	0	N	N
CALIFORNIA SEA LION	U.S.	2015	4	12	HOOK AND LINE FISHERY	MONTEREY	CA	SI	ANIMAL WITH UNSPECIFIED FISH HOOK INJURIES DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	13	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	CONSTRICTING AND LACERATED FISHING LINE INJURIES AROUND NECK. EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	14	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	16	OIL / TAR	SANTA BARBARA	CA	SI	UNDERWEIGHT ANIMAL WITH TAR / OIL. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	17	HOOK AND LINE FISHERY	ORANGE	CA	NSI	UNDERWEIGHT ANIMAL WITH FISH HOOK IN LEFT SHOULDER. TREATED AT REHAB FACILITY AND RELEASED.	NSI	PSC	0	N	N
CALIFORNIA SEA LION	U.S.	2015	4	18	HOOK AND LINE FISHERY	ORANGE	CA	SI	EMACIATED ANIMAL WITH FISH HOOKS IN ABDOMEN AND ABBESS IN RIGHT JAW. EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	18	HOOK AND LINE FISHERY	LOS ANGELES	CA	NSI	FISH HOOK IN FLIPPER. TREATED IN REHAB AND RELEASED.	NSI	PSC	0	N	N
CALIFORNIA SEA LION	U.S.	2015	4	20	GILLNET FISHERY	SANTA CRUZ	CA	SI	ANIMAL ENTANGLED IN MONOFILAMENT NETTING DIED IN REHAB.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	4	20	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	SEAWORLD TEAM DISENTAGLED ANIMAL AND CUT OFF MONOFILAMENT FROM AROUND HEAD AND MOUTH. ANIMAL WAS AN EXCELLENT WEIGHT AND AGGRESSIVE. IT WAS RELEASED ON SITE AFTER MONOFILAMENT HAD BEEN REMOVED.	NSI	P8A	0	N	N
CALIFORNIA SEA LION	U.S.	2015	4	20	HOOK AND LINE FISHERY	SAN DIEGO	CA	NSI	HEALTHY, AGGRESSIVE ANIMAL WITH FISHING HOOK PIERCING BELOW BOTTOM JAW. HOOK REMOVED AND ANIMAL RELEASED ON SITE.	NSI	PSC	0	N	N
CALIFORNIA SEA LION	U.S.	2015	4	20	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	FISHING LINE COMING OUT OF MOUTH. EUTHANIZED IN REHAB.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	21	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	21	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	21	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	21	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
CALIFORNIA SEA LION	U.S.	2015	4	22	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	22	HOOK AND LINE FISHERY	SANTA BARBARA	CA	SI	FISH HOOKS, DETAILS NOT GIVEN. ANIMAL DIED IN REHAB.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	23	GILLNET FISHERY	MONTEREY	CA	SI	MONOFILAMENT NETTING, INJURY DETAILS NOT PROVIDED, ASSUMED SERIOUS INJURY. ANIMAL TREATED AT REHAB FACILITY, OUTCOME UNKNOWN.	SI	P8A	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	4	23	GILLNET FISHERY	MONTEREY	CA	SI	NECK ENTANGLEMENT IN MONOFILAMENT NETTING. DIED IN REHAB FACILITY.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	4	23	HOOK AND LINE FISHERY	SAN DIEGO	CA	NSI	FISHING HOOK IN LEFT FRONT FLIPPER, VENTRAL SIDE. PUSHED THROUGH AND CUT OFF, RELEASED FROM REHAB FACILITY. SLIGHTLY UNDERWEIGHT.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2015	4	25	SHOOTING	MONTEREY	CA	SI	GUNSHOT PELLET FOUND IN HEAD POSTMORTEM. EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	27	SHOOTING	CLARK	WA	DEAD	TWO SUSPICIOUS HOLES WITH ASSOCIATED TREMENDOUS HEMORRHAGE; HEMORRHAGE IN HEAD; ANIMAL HAD EXCELLENT BODY CONDITION.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	28	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	28	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	4	28	HOOK AND LINE FISHERY	VENTURA	CA	SI	UNDERWEIGHT ANIMAL WITH FISHING LINE IN MOUTH. TREATED AT REHAB FACILITY.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2015	4	28	VESSEL STRIKE	KING	WA	SI	SEVERE, DEEP AND OPEN PROPELLER INJURY (LACERATION) EXTENDING DOWN NECK TO BASE OF FISHING LINE EMBEDDED IN HEALED NECK WOUND. EUTHANIZED IN REHAB FACILITY. DEHYDRATION AND PARASITISM NOTED.	SI	P9	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	1	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	ADULT MALE CALIFORNIA SEA LION HAULED OUT ON PORT DOCK 1 WITH A PLASTIC PACKING BAND AROUND THE NECK, CUTTING INTO FLESH VENTRALLY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	3	MARINE DEBRIS	LINCOLN	OR	SI	FISHING WIRE AROUND NECK; LESIONS ON ALL FLIPPERS; THIN; CONGESTION; RESPIRATION LABORED. EUTHANIZED AT REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	5	HOOK AND LINE FISHERY	SANTA CRUZ	CA	SI	ANIMAL WITH UNSPECIFIED FISH HOOK INJURIES DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	5	MARINE DEBRIS	LINCOLN	OR	SI	ADULT MALE CALIFORNIA SEA LION HAULED OUT ON PORT DOCK 1 WITH A PLASTIC PACKING BAND OR FISHING LINE WRAPPED VERY TIGHTLY AROUND THE NECK. VERY ACTIVE AND COMING AND GOING FROM THE SITE.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	5	UNIDENTIFIED HUMAN INTERACTION	LOS ANGELES	CA	SI	LONG LINEAR LACERATION, LEFT REAR FLIPPER. UNDERWEIGHT ANIMAL TAKEN TO REHAB FACILITY, TREATED AND RELEASED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2015	5	6	GILLNET FISHERY	COLUMBIA	OR	DEAD	GILL NET IN MOUTH AND THROAT; EVIDENCE IN NECK; ASPHYXIATION AND PULMONARY ASPIRATION CAUSED BY INGESTION OF GILL NET AND AMERICAN SHAD THAT WAS LODGED IN THROAT; TREMENDOUS HEMORRHAGE AND CLOTTING IN NECK.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	5	6	HOOK AND LINE FISHERY	SAN DIEGO	CA	NSI	FISHING HOOK AND LINE IN LEFT FRONT FLIPPER NEAR BEND OF FLIPPER ON VENTRAL SIDE. REMOVED ON SITE. BUT HAD PUSS POCKET. TREATED AT REHAB FACILITY AND FISHING LINE IN MOUTH. TWO HOOKS SEEN, ONLY ONE WAS FOUND. TREATED IN REHAB FACILITY AND RELEASED.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2015	5	7	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	HOOK REMOVED FROM LEFT SIDE OF MUZZLE. HAD A LARGE LURE REMOVED BY VETERINARIAN. TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2015	5	7	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	UNDERWEIGHT ANIMAL WITH TAR / OIL AND FISHING LINE ON FUR. RASPY COUGH. TREATED IN REHAB AND	NSI	P9	0	N	N

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
CALIFORNIA SEA LION	U.S.	2015	5	8	SHOOTING	CLATSOP	OR	DEAD	EVIDENCE FOUND IN BODY; HEMORRHAGE AND TISSUE DAMAGE LOCATED IN VARIOUS AREAS OF THE BODY; ANIMAL HAD EXCELLENT BODY CONDITION. NOAA ENFORCEMENT CASE.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	9	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	FISHING HOOKS IN MOUTH. HOOKS REMOVED AT REHAB FACILITY, TREATED AND RELEASED.	NSI	PSC	0	N	N
CALIFORNIA SEA LION	U.S.	2015	5	9	OIL / TAR	MARIN	CA	SI	APPROACHING PEOPLE, MODERATELY UNDERWEIGHT. TAR PATCHES ON VENTRUM AND DORSUM. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	13	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	13	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	13	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	13	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	13	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL TRANSFERRED TO CAPTIVE	CAPTIVITY	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	13	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL TRANSFERRED TO CAPTIVE	CAPTIVITY	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	13	SHOOTING	SAN DIEGO	CA	SI	ABCESS ON LEFT SIDE, SUSPECTED GUNSHOT/PUNCTURE BLEEDING WOUND ON LEFT SHOULDER. DEHYDRATED, LETHARGIC. EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	14	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	14	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	16	GILLNET FISHERY	SANTA BARBARA	CA	SI	MONOFILAMENT NETTING. DIED IN REHAB FACILITY. DETAILS NOT PROVIDED.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	5	16	HOOK AND LINE FISHERY	SANTA CRUZ	CA	SI	UNDERWEIGHT ANIMAL WITH TWO FISH HOOKS IN THE HEAD. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	18	GILLNET FISHERY	SANTA BARBARA	CA	SI	ANIMAL ENTANGLED IN MONOFILAMENT NETTING, DIED IN REHAB.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	5	18	HARASSMENT	SANTA CRUZ	CA	SI	UNDERWEIGHT ANIMAL WITH PNEUMONIA HARASSED BY THE PUBLIC. TRANSFERRED TO PUBLIC DISPLAY FACILITY.	CAPTIVITY	P9	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	19	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	19	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	19	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	19	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
CALIFORNIA SEA LION	U.S.	2015	5	19	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	19	MARINE DEBRIS	LOS ANGELES	CA	SI	EMACIATED ANIMAL HAD CIRCUMFERENTIAL CONSTRICTING NECK WOUND FROM STRAPPING MATERIAL. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	19	SHOOTING	COWLITZ	WA	DEAD	EVIDENCE FOUND IN SKULL. NOAA ENFORCEMENT CASE.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	20	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	20	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	20	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	20	MARINE DEBRIS	MARIN	CA	SI	UNDERWEIGHT ANIMAL ENTANGLED IN UNDESCRIBED MARINE DEBRIS. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	21	OIL / TAR	SANTA BARBARA	CA	SI	ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. 26-50% EXTERNAL OIL SEEN. HEAD, HIND AND FRONT FLIPPERS, VENTRUM, THROAT, MOUTH OILED.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	22	GILLNET FISHERY	SAN DIEGO	CA	SI	CONSTRICTING MONOFILAMENT GILLNET INJURY AROUND NECK. TREATED IN REHAB FACILITY AND UNDERWEIGHT, MILD DEHYDRATION, 1 CENTIMETER WOUND ON LEFT FLIPPER. OIL ON MUZZLE. 2-25% EXTERNAL OILING SEEN. OIL ON VENTRAL THORAX, ABDOMEN, FRONT FLIPPERS. ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. TREATED AND	NSI	P7B	0	Y	N
CALIFORNIA SEA LION	U.S.	2015	5	22	OIL / TAR	SANTA BARBARA	CA	SI	RELEASED FROM REHAB FACILITY.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2015	5	22	OIL / TAR	VENTURA	CA	SI	ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. 2-25% EXTERNAL OILING SEEN. OIL ON PELAGE ON CHIN. OIL PRESENT ON CHIN, ABDOMEN, DORSAL SURFACE OF BOTH FRONT FLIPPERS, BOTH REAR FLIPPERS. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	22	OIL / TAR	VENTURA	CA	SI	EMACIATED, LETHARGIC. APPROX. 10% OIL/TAR ON BODY. TRANSPORTED TO OWCN FIELD TRIAGE. FINAL OUTCOME UNKNOWN.	SI	P9	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	22	UNIDENTIFIED HUMAN INTERACTION	LOS ANGELES	CA	SI	UNDERWEIGHT ANIMAL WITH LACERATIONS ON LEFT SIDE OF BODY; SEVERAL CUTS TO LEFT FOREFLIPPER; CITIZEN APPLIED TISSUE GLUE TO WOUNDS TRAPPING DEBRIS. TREATED AT REHAB FACILITY AND RELEASED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2015	5	23	MARINE DEBRIS	SANTA BARBARA	CA	SI	UNDERWEIGHT ANIMAL ENTANGLED IN UNDESCRIBED MARINE DEBRIS. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	23	OIL / TAR	VENTURA	CA	SI	ANIMAL TREATED AND RELEASED FROM REHAB. 2-25% EXTERNAL OILING SEEN. OPEN LESIONS ON FIRST DIGIT ON RIGHT FRONT FLIPPER AND RECTUM. MODERATE DEHYDRATION. ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2015	5	23	OIL / TAR	SANTA BARBARA	CA	SI	MILD DEHYDRATION. 2-25% EXTERNAL OILING SEEN. OIL ON FUR ALONG FLIPPERS, CHEST, VESTRUM, ABOVE LEFT EYE, AND LEFT SIDE OF FACE. ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. TREATED AT REHAB FACILITY AND RELEASED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2015	5	23	OIL / TAR	SANTA BARBARA	CA	SI	26-50% EXTERNAL OILING SEEN. ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. OIL AND BLOOD SAMPLES WERE TAKEN ACCORDING TO NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND OILED WILDLIFE CARE NETWORK OIL SPILL RESPONSE PROTOCOLS. TREATED AND RELEASED FROM REHAB	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2015	5	23	OIL / TAR	SANTA BARBARA	CA	SI	OIL ON BODY, STRONG PETROLEUM ODOR. TRANSPORTED TO OWCN FIELD TRIAGE. FINAL OUTCOME UNKNOWN.	SI	P9	1	N	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
CALIFORNIA SEA LION	U.S.	2015	5	23	OIL / TAR	VENTURA	CA	SI	VERY THIN CSL WITH OIL ON BODY. TRANSPORTED TO OWCN FIELD TRIAGE. FINAL OUTCOME UNKNOWN.	SI	P9	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	23	OIL / TAR	SAN LUIS OBISPO	CA	SI	UNDERWEIGHT ANIMAL WITH A LOT OF TAR ON ABDOMEN. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	23	UNIDENTIFIED HUMAN INTERACTION	VENTURA	CA	SI	ANIMAL FOUND WITH SPEAR IN SIDE, TRANSFERRED TO REHAB. FINAL OUTCOME UNKNOWN.	SI	P9	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	24	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	FISHING HOOK IN MOUTH. TREATED IN REHAB FACILITY AND RELEASED. ANIMAL RESTRANDED IN MONTEREY IN NOVEMBER, UNDERWEIGHT. CONSIDERED SERIOUS INJURY DESPITE REHAB EFFORTS DUE TO ANIMAL	SI	P1	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	24	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	HYPOTHERMIC; COMATOSE; FISHING LINE DOWN THROAT; UNDERWEIGHT ANIMAL. EUTHANIZED IN REHAB	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	24	OIL / TAR	SANTA BARBARA	CA	SI	MODERATE DEHYDRATION. 2-25% EXTERNAL OILING SEEN. ANIMAL PICKED UP AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	24	OIL / TAR	SANTA BARBARA	CA	SI	UNDERWEIGHT, MILD DEHYDRATION. 26-50% EXTERNAL OILING SEEN. SUPERFICIAL OIL COVERING OF FLIPPERS, VENTRUM, HEAD, THROAT. ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. TREATED AT REHAB FACILITY AND RELEASED WITH SATELLITE TRANSMITTER. FINAL OUTCOME UNKNOWN, NO ADDITIONAL DETAILS ON SATELLITE TRACKING RESULTS.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2015	5	24	OIL / TAR	VENTURA	CA	SI	THIN, MODERATE DEHYDRATION. 2-25% EXTERNAL OILING SEEN. OIL ON VENTRAL THORAX, ABDOMEN, AND LEADING EDGE OF FORE AND HIND FLIPPERS. ANIMAL COLLECTED AS PART OF THE REFUGIO BEACH OIL SPILL RESPONSE. EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	24	SHOOTING	UNKNOWN	OR	DEAD	EVIDENCE COLLECTED FROM SKULL. NOAA ENFORCEMENT CASE.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	25	HOOK AND LINE FISHERY	ORANGE	CA	SI	EMACIATED ANIMAL WITH FISH HOOKS IN MOUTH. EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	25	HOOK AND LINE FISHERY	SANTA BARBARA	CA	SI	UNDERWEIGHT ANIMAL WITH MULTIPLE FISH HOOK INJURIES, DIED IN REHAB.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	25	OIL / TAR	SANTA BARBARA	CA	SI	LESS THAN 2% EXTERNAL OILING SEEN. TREATED IN REHAB, RELEASED	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2015	5	25	OIL / TAR	SANTA BARBARA	CA	SI	TREATED AND RELEASED FROM REHAB. MILD DEHYDRATION. LESS THAN 2% EXTERNAL OILING SEEN. SUPERFICIAL OIL SHEEN ON VENTRUM AND FLIPPERS. ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2015	5	25	OIL / TAR	SANTA BARBARA	CA	SI	UNDERWEIGHT AND DEHYDRATED. LESS THAN 2% EXTERNAL OILING SEEN. OIL ON RIGHT FRONT FLIPPER. SCANT SHEEN ON HIND FLIPPERS AND RIGHT VENTRAL CERVICAL AREA. ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. ANIMAL TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2015	5	25	OIL / TAR	SANTA BARBARA	CA	SI	ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. 26-50% EXTERNAL OILING SEEN. OIL SPOTS ON LEFT HOP, VENTRUM, MUZZLE, HEAD, VENTRAL NECK, FRONT FLIPPERS. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	26	SHOOTING	PACIFIC	WA	DEAD	EVIDENCE IN BODY W/ASSOC. HEMORRHAGE; BLOOD FROM NOSE AND LEFT EYE; TREMENDOUS HEMORRHAGE IN HEAD AND BODY; RIGHT LUNG HEMORRHAGED WITH POSSIBLE TRACK/HOLE; RIGHT PLEURAL CAVITY FILLED WITH BLOOD; ANIMAL HAD EXCELLENT BODY CONDITION. NOAA ENFORCEMENT CASE.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	26	SPEARING	VENTURA	CA	SI	SEA LION HAD A 2 FOOT SPEAR ON HIS LEFT MIDSECTION SIDE, STICKING OUT OF HIM. IT WAS REMOVED ON SITE. LACERATION SIZE IS 6 INCHES TO 8 INCHES LONG AND 5 INCHES WIDE. EUTHANIZED IN REHAB.	DEAD	NA	1	N	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
CALIFORNIA SEA LION	U.S.	2015	5	27	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	PUP HAD TWO FISHING HOOKS IN MOUTH WITH MONOFILAMENT. ONE HOOK IN EACH SIDE OF THE MOUTH. TREATED IN REHAB FACILITY AND RELEASED. TREATED AS SERIOUS INJURY BECAUSE ANIMAL MAY BE A DEPENDENT PUP RELEASED ALONE.	SI	P14	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	27	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	UNDERWEIGHT ANIMAL. FISH HOOK FOUND IN STOMACH. ULCERATIVE GASTRITUS. DIED IN REHAB FACILITY. LESS THAN 2% EXTERNAL OILING SEEN. TREATED IN REHAB, RELEASED	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	27	OIL / TAR	SANTA BARBARA	CA	SI	1 CENTIMETER LACERATION OVER RIGHT HIP. ANIMAL WAS COLLECTED AS PART OF THE REFUGIO BEACH OIL SPILL RESPONSE. HAD 51-75% EXTERNAL OILING SEEN. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	27	OIL / TAR	SANTA BARBARA	CA	SI	UNDERWEIGHT, MILD DEHYDRATION. 51-75% EXTERNAL OILING SEEN. OIL AROUND EYES AND NOSE, ALL FLIPPERS, ENTIRE VENTRAL SIDE. ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. TREATED AT REHAB AND RELEASED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2015	5	27	OIL / TAR	SANTA BARBARA	CA	SI	UNDERWEIGHT. 26-50% EXTERNAL OILING SEEN. OIL SEEN AROUND MUZZLE AND EYES. OIL SHEEN ON FLIPPERS AND DORSAL BODY. ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2015	5	28	OIL / TAR	SANTA BARBARA	CA	SI	LESS THAN 2% EXTERNAL OILING SEEN. DIED IN REHAB. ANIMAL TREATED AND RELEASED FROM REHAB FACILITY. DIARRHEA. OIL IN BETWEEN VIBRISSAE. LESS THAN 2% EXTERNAL OILING SEEN. ANIMAL COLLECTED AS PART OF THE REFUGIO BEACH OIL SPILL RESPONSE.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	28	OIL / TAR	SANTA BARBARA	CA	SI	ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. LESS THAN 2% EXTERNAL OILING SEEN. UNDERWEIGHT ANIMAL TREATED AND RELEASED FROM REHAB.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2015	5	28	OIL / TAR	VENTURA	CA	SI	ANIMAL DESCRIBED AS 'OILED' BROUGHT TO REHAB FACILITY. OUTCOME UNKNOWN.	SI	P9	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	29	OIL / TAR	SANTA BARBARA	CA	SI	LESS THAN 2% EXTERNAL OILING SEEN. TREATED IN REHAB, RELEASED	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2015	5	29	OIL / TAR	SANTA BARBARA	CA	SI	UNDERWEIGHT. ANIMAL GOT OUT OF TRANSPORT CARRIER AND FELL OFF TRUCK. 2-25% EXTERNAL OILING SEEN ON HEAD AND ABDOMEN. ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	30	OIL / TAR	VENTURA	CA	SI	2-25% EXTERNAL OILING SEEN ON MUZZLE, RIGHT LATERAL ABDOMEN, RIGHT SHOULDER, HEAD AND NECK. THIN AND DEHYDRATED. OPEN LESION ON LEFT MANDIBLE, NEXT TO THIRD POSTERIOR CANINE. DIED IN REHAB FACILITY. ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	30	OIL / TAR	SANTA BARBARA	CA	SI	DIED IN REHAB FACILITY. ANIMAL COLLECTED AS PART OF THE REFUGIO BEACH OIL SPILL RESPONSE. 2-25% EXTERNAL OILING SEEN ON REAR END, HIND FLIPPERS, LEFT SCAPULA, AND NEAR EYES.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	30	OIL / TAR	VENTURA	CA	SI	ANIMAL DIED IN REHAB FACILITY. ANIMAL WAS PICKED UP ALIVE FROM THE OIL SPILL ZONE. 5% EXTERNAL OILING SEEN ON LEFT LATERAL CAUDAL. EMACIATED. SUPERFICIAL ABRASIONS ON VENTRAL SIDE OF ALL FLIPPERS. DEHYDRATED. ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	31	OIL / TAR	SANTA BARBARA	CA	SI	2-25% EXTERNAL OILING NOTED. TREATED IN REHAB, RELEASED	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2015	5	31	OIL / TAR	SANTA BARBARA	CA	SI	LESS THAN 2% EXTERNAL OILING SEEN ON LEFT TARSAS, HIND FLIPPER AND TAIL, RIGHT FLIPPER AXILLARY. TREATED IN REHAB, RELEASED.	NSI	P9	0	N	N

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
CALIFORNIA SEA LION	U.S.	2015	5	31	OIL / TAR	VENTURA	CA	SI	MILDLY DEHYDRATED, THIN. LESION ON MIDDLE OF TONGUE AND UNDER LEFT EYE. LESS THAN 2% EXTERNAL OILING SEEN ON RIGHT HIP, RIGHT SIDE AND ON CHEST. ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	5	31	OIL / TAR	SANTA BARBARA	CA	SI	MODERATELY DEHYDRATED, RIGHT FRONT FLIPPER SWOLLEN. LESS THAN 2% EXTERNAL OILING SEEN ON SNOUT, NECK, VENTRAL THORAX, AROUND EYES, AND CHEST. ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. ANIMAL EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	6	1	OIL / TAR	VENTURA	CA	SI	ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. LESS THAN 2% EXTERNAL OILING PREVIOUSLY SEEN NEAR BASE OF TAIL. UPON INTAKE, NO OIL WAS VISIBLE. ANIMAL WAS THIN AND MILDLY DEHYDRATED. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	6	1	OIL / TAR	SANTA BARBARA	CA	SI	ANIMAL COLLECTED AS PART OF THE REFUGIO BEACH OIL SPILL RESPONSE. LESS THAN 2% EXTERNAL OILING SEEN ON REAR END. THIN AND SLIGHTLY DEHYDRATED. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	6	2	OIL / TAR	SANTA BARBARA	CA	SI	UNDERWEIGHT, DEHYDRATED. LESS THAN 2% EXTERNAL OILING SEEN IN PATCHES ON DORSAL, AND SURFACE OF VENTRUM. SPOTS ON LEFT MUZZLE AND VENTRAL BODY. MILD FORE-FLIPPER PATCHES ON DORSAL SIDE. ANIMAL WAS COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. RELEASED FROM REHAB FACILITY.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2015	6	3	OIL / TAR	SANTA BARBARA	CA	SI	2-25% EXTERNAL OILING NOTED. TREATED IN REHAB AND RELEASED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2015	6	3	OIL / TAR	LOS ANGELES	CA	DEAD	LESS THAN 2% EXTERNAL OILING SEEN. DIED IN REHAB. ROPE WAS SEEN WRAPPED AROUND ANIMAL'S BODY FOR SEVERAL HOURS BEFORE IT MANAGED TO FREE ITSELF, PHOTO IN HMSC ARCHIVE.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	6	4	MARINE DEBRIS	LINCOLN	OR	SI	UNDERWEIGHT ANIMAL WITH NECK ENTANGLEMENT IN FISHING LINE. DIED IN REHAB FACILITY.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2015	6	5	HOOK AND LINE FISHERY	MONTEREY	CA	SI	UNDERWEIGHT ANIMAL WITH NECK ENTANGLEMENT IN FISHING LINE. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	6	5	OIL / TAR	VENTURA	CA	SI	UNDERWEIGHT ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. TREATED AT REHAB FACILITY AND RELEASED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2015	6	5	SHOOTING	PACIFIC	WA	DEAD	EVIDENCE FOUND IN HEAD; THE HEART AND SOME AREAS OF THE BODY HEMORRHAGED; THE ANIMAL HAD EXCELLENT BODY CONDITION. NOAA ENFORCEMENT	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	6	6	UNIDENTIFIED FISHERY INTERACTION	SANTA BARBARA	CA	SI	UNDERWEIGHT ANIMAL ENTANGLED IN GEAR OR MATERIAL OF UNKNOWN TYPE, TREATED AT REHAB FACILITY AND RELEASED.	NSI	P7B	0	Y	N
CALIFORNIA SEA LION	U.S.	2015	6	7	OIL / TAR	SANTA BARBARA	CA	SI	ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. LESS THAN 2% EXTERNAL OILING SEEN ON LEFT NECK AND VENTRUM (MID THORAX). OIL AND BLOOD SAMPLES WERE TAKEN. TREATED IN REHAB FACILITY AND RELEASED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2015	6	8	OPEN ACCESS CA HALIBUT BOTTOM TRAWL	OFFSHORE	CA	DEAD	HAULED ABOARD DEAD IN NET.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	6	11	SHOOTING	SANTA BARBARA	CA	SI	EUTHANIZED IN REHAB, BULLET RECOVERED	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	6	12	OIL / TAR	VENTURA	CA	SI	LESS THAN 2% EXTERNAL OILING SEEN. TREATED IN REHAB, RELEASED	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2015	6	13	OIL / TAR	VENTURA	CA	SI	LESS THAN 2% EXTERNAL OILING SEEN. TREATED IN REHAB, RELEASED	NSI	P9	0	N	N

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
CALIFORNIA SEA LION	U.S.	2015	6	14	OIL / TAR	VENTURA	CA	SI	ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. LESS THAN 2% EXTERNAL OILING SEEN ON RIGHT SHOULDER. ANIMAL HAD MULTIPLE SEIZURES ON THE BEACH BEFORE AND DURING RESCUE. 2 FULL BODY SEIZURES, ABOUT 1 MINUTE LONG EACH, FOLLOWED BY SEVERAL SHORTER SEIZURES. ON ARRIVAL TO FACILITY, TWITCHING FOLLOWED BY GRAND MAL SEIZURE (FACIAL TWITCHING, JACK SMACKING, FLIPPER FLAPPING). SEIZURES STOPPED AFTER FIVE MINUTES. SEIZURE ACTIVITY RESUMED LATER ON IN THE NIGHT AND AGAIN THE NEXT MORNING. ANIMAL EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	6	14	OIL / TAR	SANTA BARBARA	CA	SI	ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. LESS THAN 2% EXTERNAL OILING SEEN AROUND LEFT HIP AND LEFT CERVICAL REGION. MILD DEHYDRATION. MILD SWOLLEN VULVA. ANIMAL EUTHANIZED AT REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	6	14	OIL / TAR	SANTA BARBARA	CA	SI	UNDERWEIGHT, DEHYDRATED, DIARRHEA. LESS THAN 2% EXTERNAL OILING SEEN ON LEFT SHOULDER. ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. TREATED AT REHAB FACILITY AND RELEASED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2015	6	14	OIL / TAR	SANTA BARBARA	CA	SI	UNDERWEIGHT, DEHYDRATED. LESS THAN 2% EXTERNAL OILING SEEN ON RIGHT HIP. ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. RELEASED FROM REHAB FACILITY.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2015	6	14	OIL / TAR	VENTURA	CA	SI	UNDERWEIGHT. LESS THAN 2% EXTERNAL OILING SEEN ON RIGHT SHOULDER, RIGHT AXILLARY, AND LEFT NECK. ANIMAL COLLECTED AS PART OF THE REFUGIO BEACH OIL SPILL RESPONSE. ANIMAL DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	6	16	HOOK AND LINE FISHERY	ORANGE	CA	SI	HOOK IN MOUTH. TREATED AT REHAB FACILITY AND RELEASED.	NSI	PSC	0	N	N
CALIFORNIA SEA LION	U.S.	2015	6	16	OIL / TAR	SANTA BARBARA	CA	SI	LESS THAN 2% EXTERNAL OILING SEEN. DIED IN REHAB. ANIMAL DIED IN REHAB FACILITY. EMACIATED.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	6	16	OIL / TAR	VENTURA	CA	SI	LACERATIONS ON FLIPPERS. LESS THAN 2% EXTERNAL SUSPECT OILING SEEN ON RIGHT LATERAL ELBOW. ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL PUBLIC PICKING UP APPROX. 1 WEEK OLD PUP.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	6	17	HARASSMENT	ORANGE	CA	SI	TRANSFERRED TO REHAB FACILITY, OUTCOME UNKNOWN. ANIMAL HAD MULTIPLE INJURIES (ENTANGLEMENT, VESSEL STRIKE, GUNSHOT). EUTHANIZED IN REHAB FACILITY.	SI	P14	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	6	17	SHOOTING	SAN LUIS OBISPO	CA	SI	RESTRICTIVE ENTANGLEMENT OF MONOFILAMENT LINE AROUND NECK LACERATED BLUBBER AND MUSCLE, DOWN TO TRACHEA. LINE LIKELY LACERATED MAJOR ARTERY, WHICH WOULD HAVE CAUSED BLOOD LOSS AND DEATH. MODERATELY UNDERWEIGHT, TREBLE HOOK AND LURE IN REAR FLIPPER. TRANSFERRED TO PUBLIC DISPLAY FACILITY AFTER REHAB.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	6	18	HOOK AND LINE FISHERY	SAN DIEGO	CA	DEAD		DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	6	18	HOOK AND LINE FISHERY	MONTEREY	CA	SI		CAPTIVITY	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	6	18	OPEN ACCESS CA HALIBUT BOTTOM TRAWL	OFFSHORE	CA	DEAD	HAULED ABOARD DEAD IN NET.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	6	18	SHOOTING	LINCOLN	OR	SI	GUNSHOT WOUND TO HEAD. NO FURTHER DETAILS.	SI	P9	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	6	19	OPEN ACCESS CA HALIBUT BOTTOM TRAWL	OFFSHORE	CA	DEAD	HAULED ABOARD DEAD IN NET.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	6	22	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	FISHING HOOK STUCK IN MOUTH. ACTIVE, ALERT, LOOSE STOOLS, FAIR BODY CONDITION. TREATED AND RELEASED FROM REHAB FACILITY.	NSI	PSC	0	N	N
CALIFORNIA SEA LION	U.S.	2015	6	22	OIL / TAR	VENTURA	CA	SI	SWOLLEN LEFT FLIPPER. LESS THAN 2% EXTERNAL OILING SEEN. ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. ANIMAL WAS PICKED UP ALIVE FROM THE OIL SPILL ZONE. DIED IN CARE AT FORT MACARTHUR. EVIDENCE FROM BODY W/ASSOC. TRACKING WOUNDS AND TRAUMA; EXTENSIVE HEMORRHAGE IN HEAD AND BODY. ANIMAL HAD EXCELLENT BODY CONDITION.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	6	23	SHOOTING	UNKNOWN	OR	DEAD		DEAD	NA	1	N	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
CALIFORNIA SEA LION	U.S.	2015	6	24	HOOK AND LINE FISHERY	ORANGE	CA	SI	EMACIATED, DEHYDRATED, FISH HOOK REAR FLIPPER. EUTHANIZED IN REHAB FACILITY. NECROPSY NOTED GASTROPATHY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	6	28	GILLNET FISHERY	MONTEREY	CA	SI	CLEAR MONOFILAMENT NETTING TANGLED AROUND NECK. ANIMAL TREATED AT REHAB FACILITY, OUTCOME UNKNOWN.	SI	P8A	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	6	28	MARINE DEBRIS	MONTEREY	CA	DEAD	FOUND IN TRASHBAG.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	6	29	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	REMOVED FISHING LINE FROM AROUND NECK; 1 CM DEEP CHRONIC WOUND OVER SHOULDER JOINTS BILATERALLY; HYPERTHERMIC; UNDERWEIGHT. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	7	5	GILLNET FISHERY	ORANGE	CA	SI	GILL NET TIGHTLY AROUND NECK, EMACIATED, DEHYDRATED, NECK WOUND. EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	7	8	SCIENTIFIC RESEARCH	VENTURA	CA	DEAD	A DEAD CALIFORNIA SEA LION WAS DISCOVERED DURING HAUL BACK IN A PELAGIC LONGLINE. THE ANIMAL WAS FOUL-HOOKED IN ITS BACK THROUGH ITS FUR AND SKIN. THIS TAKE OCCURRED DURING AN EXPERIMENTAL SET (BLUE SHARK SURVIVAL STUDY). THE APPROXIMATE DEPTH OF THE LINE WAS 60 M.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	7	9	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	HAULED ABOARD DEAD IN NET.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	7	9	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	HOOK AND LINE FISHERY	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	7	9	UNIDENTIFIED FISHERY INTERACTION	LOS ANGELES	CA	SI	DIED DURING TRANSPORT TO REHAB. DETAILS ON NATURE OF FISHERY-RELATED INJURY NOT PROVIDED.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	7	10	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	SELF-REPORTED DROWNING OF SEA LION IN GROUND FISH NET.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	7	10	SHOOTING	PACIFIC	WA	DEAD	SUSPECTED SHOOTING. HOLES WITH ASSOCIATED TREMENDOUS HEMORRHAGE IN BODY; AREAS OF BLACK TISSUE (FROM LEAD?); AT LEAST TWO SHATTERED RIBS AT STERNUM W/ASSOCIATED TISSUE. DAMAGE AND HEMORRHAGE; HEART AND LUNG HEMORRHAGED; ANIMAL HAD EXCELLENT BODY CONDITION.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	7	14	HOOK AND LINE FISHERY	ORANGE	CA	SI	FISH HOOK IN MOUTH. ANIMAL EUTHANIZED IN REHAB.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	7	15	UNIDENTIFIED HUMAN INTERACTION	MONTEREY	CA	DEAD	YELLOW WAX MARKINGS ON DORSAL SURFACE. TMMC RESCUE TEAM SAID ANIMAL WAS ALERT AND ACTIVE AND THEN SUDDENLY SEIZED AND DIED ON THE BEACH. THE ANIMAL WAS PICKED UP LESS THAN 24 HOURS LATER. ANIMAL WAS FRESH BUT MISSING EYES AND HAD A SMALL HOLE UNDERNEATH THE FRONT LEFT FLIPPER.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	7	17	UNIDENTIFIED HUMAN INTERACTION	SAN LUIS OBISPO	CA	SI	TRAUMA TO MOUTH. SUSPECTED SEAL BOMB OR OTHER BLUNT FORCE TRAUMA. ANIMAL DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	7	25	UNIDENTIFIED FISHERY INTERACTION	SAN MATEO	CA	SI	BROKEN JAW, SUSPECTED SEAL BOMB INJURY. ANIMAL DIED IN REHAB.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	7	27	MARINE DEBRIS	LINCOLN	OR	SI	PLASTIC PACKING BAND TIGHTLY WRAPPED AROUND NECK; CUTTING INTO FLESH; PUS EVIDENT.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	7	30	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	HAULED ABOARD DEAD IN NET.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	8	1	HOOK AND LINE FISHERY	SAN DIEGO	CA	DEAD	MONOFILAMENT LINE AROUND BOTH FRONT FLIPPERS. THIS ANIMAL WAS ENTANGLED AND PULLED UP DEAD ON A FISHING BOAT.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	8	2	UNIDENTIFIED FISHERY INTERACTION	SAN FRANCISCO	CA	DEAD	LETHARGIC ANIMAL ENTANGLED IN MONOFILAMENT NETTING AROUND NECK AND FLIPPERS. DIED IN REHAB FACILITY.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	8	3	GILLNET FISHERY	MONTEREY	CA	SI	APPARENT DEEP MONOFILAMENT WOUND ON NECK. RESCUE EFFORT FAILED.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	8	7	HOOK AND LINE FISHERY	SAN FRANCISCO	CA	SI	NECK ENTANGLEMENT IN MONOFILAMENT NETTING. SENT TO REHAB FACILITY, UNKNOWN OUTCOME.	SI	P8A	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	8	9	GILLNET FISHERY	MONTEREY	CA	SI	NECK ENTANGLEMENT IN MONOFILAMENT NETTING. SENT TO REHAB FACILITY, UNKNOWN OUTCOME.	SI	P8A	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	8	13	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	HAULED ABOARD DEAD IN NET.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	8	13	SHOOTING	PACIFIC	WA	DEAD	MULTIPLE HOLES WITH ASSOCIATED HEMORRHAGE IN BODY AND POSTERIOR HEAD; PART OF LEFT SKULL "BLOWN AWAY"; NECK TREMENDOUSLY HEMORRHAGED.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	8	19	SHOOTING	MARIN	CA	DEAD	BULLET HOLES IN CHEST.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	8	20	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	SELF-REPORTED DROWNING OF SEA LION IN GROUND FISH NET.	DEAD	NA	1	Y	Y

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CALIFORNIA SEA LION	U.S.	2015	8	23	MARINE DEBRIS	GRAYS HARBOR	WA	SI	PACKING BAND OR FISHING LINE CUTTING DEEPLY INTO NECK OF ANIMAL.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	8	25	DOG ATTACK	HUMBOLDT	CA	SI	DOG BITES ON BACK AND STOMACH. TREATED IN REHAB AND RELEASED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2015	8	29	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	FISH HOOK IN ESOPHAGUS. TREATED IN REHAB FACILITY AND RELEASED.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2015	9	5	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	ANIMAL HAD FISHING LINE CUTTING INTO ITS NECK. TREATED IN REHAB FACILITY AND RELEASED.	NSI	P8A	0	N	N
CALIFORNIA SEA LION	U.S.	2015	9	5	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	MONOFILAMENT AROUND NECK, NOT CUTTING INTO ANIMAL. TREATED IN REHAB AND RELEASED.	NSI	P8B	0	N	N
CALIFORNIA SEA LION	U.S.	2015	9	6	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	FISHING LINE IN MOUTH. TREATED AT REHAB FACILITY AND RELEASED. NO DETAILS ON WHETHER HOOKS WERE PRESENT AND/OR REMOVED. ASSUMED SERIOUS INJURY BECAUSE OF PROBABLE GEAR INGESTION.	SI	P2	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	9	13	SHOOTING	CLATSOP	OR	DEAD	HOLDS, HEMORRHAGE, AND OTHER TRAUMA CONSISTENT WITH SHOOTING.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	9	14	SCIENTIFIC RESEARCH	OFFSHORE	CA	NSI	THE SALMON OCEAN ECOLOGY TEAM WAS REVIEWING GO-PRO FOOTAGE FROM THEIR TRAWL ON 9/14/2015 AND NOTICED A SEA LION ACTIVELY SWIMMING IN AND OUT OF THE TRAWL INTERMEDIATE SECTION THROUGH THE MOUTH OF THE NET, AND THEN EVENTUALLY LEAVING THE NET THROUGH THE EXCLUDER. THE ANIMAL SEEMED TO BE COMPLETELY UNINJURED BY THE INTERACTION.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2015	9	17	MARINE DEBRIS	LINCOLN	OR	SI	ANIMAL WITH DEEP CONSTRICTING NECK ENTANGLEMENT Oozing fluid, entangling material SEA LION WAS DISCOVERED TO BE HOOKED IN THE MOUTH DURING RETRIEVAL OF THE LONGLINE AT 0949. IT WAS RELEASED IN GOOD CONDITION - SWAM AWAY LIVELY AND ENERGETIC. DETAILS LACKING ON WHETHER HOOK WAS REMOVED OR FELL OUT. ASSUMED SERIOUS INJURY BECAUSE OF HOOK REMAINING IN MOUTH.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	9	20	SCIENTIFIC RESEARCH	OFFSHORE	CA	SI	HOOK AND LINE HANGING FROM RIGHT SIDE OF MOUTH. SWOLLEN JAW. ANIMAL TRANSFERRED TO CAPTIVE DISPLAY FACILITY FOLLOWING REHAB.	SI	P5A	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	9	21	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	CONSTRICTING NECK WOUND WHICH APPEARS TO BE FAIRLY DEEP AND Oozing fluid, based on review of PHOTOS.	CAPTIVITY	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	9	21	MARINE DEBRIS	CLATSOP	WA	SI	NYLON NETTING ENTANGLEMENT AROUND NECK.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	9	25	GILLNET FISHERY	MONTEREY	CA	SI	TRANSFERRED TO REHAB FACILITY. OUTCOME UNKNOWN.	SI	P8A	1	Y	Y
CALIFORNIA SEA LION	U.S.	2015	9	25	MARINE DEBRIS	MARIN	CA	SI	UNDERWEIGHT ANIMAL ENTANGLED IN UNDESCRIBED MARINE DEBRIS. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	9	26	SHOOTING	MARIN	CA	DEAD	BULLET FOUND IN SKULL POSTMORTEM.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	9	29	SHOOTING	CLARK	WA	DEAD	OBVIOUS BULLET/PELLET HOLES IN NECK AND HEAD WITH ASSOCIATED TRAUMA; THE SEA LION HAD VERY GOOD BODY CONDITION.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	10	3	SHOOTING	SAN DIEGO	CA	SI	EMACIATED, LETHARGIC. TWO PUNCTURE WOUNDS ON LEFT SHOULDER WITH PUS. MULTIPLE GUNSHOT WOUNDS AND BULLETS FOUND IN XRAY ON 10/6/15.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	10	14	SHOOTING	CLATSOP	OR	DEAD	CLEARLY SHOT IN HEAD; LEFT MANDIBLE BROKEN IN HALF; MUCH OF SKULL EXPOSED; UPPER LEFT CANINE AND POSSIBLY OTHER TEETH REMOVED BY UNKNOWN PERSON; POSSIBLE SMALLER SHARK BITE AT LEFT VENTRAL PELVIS; THE SEA LION HAD VERY GOOD BODY CONDITION.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	10	26	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	FISH HOOK WITH LINE (WIRE) THROUGH JAW SLIGHTLY THIN, LOWER RIGHT GUM SWOLLEN FROM FISH HOOK. REPORT INDICATES A 'RESTRANDED' ANIMAL. TREATED AT REHAB FACILITY AND RELEASED. FINAL OUTCOME TREATED AS SERIOUS INJURY DUE TO LACK OF DETAIL.	SI	P5A	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	10	28	HOOK AND LINE FISHERY	ORANGE	CA	SI	UNDERWEIGHT ANIMAL ENTANGLED IN FISHING LINE. TRANSFERRED TO PUBLIC DISPLAY FACILITY.	CAPTIVITY	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	11	4	HOOK AND LINE FISHERY	SAN DIEGO	CA	NSI	LARGE FISHING LURE HANGING FROM RIGHT SIDE OF NOSE. REMOVED LURE AND RELEASED ANIMAL IN SITU. GOOD CONDITION OTHERWISE.	NSI	P5C	0	N	N

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CALIFORNIA SEA LION	U.S.	2015	11	5	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	ANIMAL SWALLOWED HOOK / LURE. TREATED AT REHAB FACILITY AND RELEASED.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2015	11	6	SHOOTING	MONTEREY	CA	DEAD	PHOTOS OF ENTRY AND EXIT WOUNDS IN HEAD AND UNDERWEIGHT ANIMAL WRAPPED IN FISHING LINE. TREATED AT REHAB FACILITY AND RELEASED.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	11	8	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	EMACIATED AND DEHYDRATED WITH FISH HOOK IN LEFT FOREFLIPPER. TRANSFERRED TO PUBLIC DISPLAY FACILITY. MONOFILAMENT WRAPPED TIGHTLY AROUND JAW. ANIMAL DIED IN REHAB.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2015	11	11	HOOK AND LINE FISHERY	ORANGE	CA	NSI	GILLNET LACERATION AROUND NECK. TREATED AT REHAB FACILITY AND RELEASED.	CAPTIVITY	P5C	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	11	13	HOOK AND LINE FISHERY	SANTA BARBARA	CA	SI	FISHING LINE AROUND NECK. TREATED IN REHAB AND RELEASED.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	11	17	GILLNET FISHERY	LOS ANGELES	CA	SI	A SINGLE CUT WAS MADE BY UNKNOWN PERSON(S) ALONG ENTIRE DORSAL MIDLINE; CLEAR BULLET/PELLET TRACK WITH CLOTTING ON SPLEEN; OTHER EVIDENCE HOLES AND TRACKS WITH ASSOCIATED HEMORRHAGE IN BODY; ANIMAL HAD EXCELLENT BODY CONDITION.	NSI	P7B	0	Y	N
CALIFORNIA SEA LION	U.S.	2015	11	17	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	YEARLING WITH SINGLE WRAP OF FISHING LINE AROUND NECK. NOT TIGHT, REMOVED. OTHERWISE GOOD CONDITION, UNDERWEIGHT.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2015	11	20	SHOOTING	PACIFIC	WA	DEAD	FOUND IN TUCK POSITION ON BEACH, LETHARGIC AND EMACIATED. TAR PATCH 6 CM X1 CM ON BACK BETWEEN SHOULDER BLADES. DIED IN REHAB FACILITY. PLASTIC BAG HANDLE AROUND EMACIATED ANIMAL'S NECK. OUTCOME UNKNOWN. TREATED CONSERVATIVELY AS SERIOUS INJURY BECAUSE OF LOCATION OF ENTANGLEMENT, WITH CAPACITY TO BE CONSTRICTING. GILL NECK INJURY AROUND NECK, UNDERWEIGHT, COUGHING. DIED AT REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	11	23	HOOK AND LINE FISHERY	SAN DIEGO	CA	NSI	HOOK IN LOWER RIGHT CHIN; HOOK IN RIGHT REAR FLIPPER; LOOSE LINE ON ANIMAL AND AROUND TAG; UNDERWEIGHT. TREATED IN REHAB AND RELEASED.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2015	11	24	OIL / TAR	MONTEREY	CA	SI	CONGESTED; THIN; MULTIPLE HOOKS IN MOUTH WITH SINKER. ANIMAL DIED IN REHAB.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	11	29	MARINE DEBRIS	ORANGE	CA	SI	ONE ANIMAL DISTURBED DURING RESCUE ON DOCK. ANIMAL WAS DARTED WITH APPROVAL FROM NATIONAL MARINE FISHERIES SERVICE. FISHING LINE STRAPPED AROUND HEAD VERTICALLY. FISHING LINE WRAPPED BEHIND EYES ON SKULL, LEFT EYE BULGING OUT OF SOCKET, POSSIBLY A HOOK CAUGHT IN EYE. ONE BULLET FOUND DURING XRAYS ON 12/9/15 LODGED IN BACK OF THROAT. REMOVED. TREATED AND RELEASED FROM UNDERWEIGHT ANIMAL WITH ENTANGLEMENT SCAR ON NECK DIED IN REHAB.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	11	30	GILLNET FISHERY	LOS ANGELES	CA	SI	EMACIATED; ULCERS ON TONGUE AND GUMS; LOST TOOTH LOWER LEFT JAW; HOOK PRESENT ON FRONT LEFT AXILLARY REGION OF LEFT FRONT FLIPPER. TREATED IN REHAB AND RELEASED.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2015	12	5	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	MONOFILAMENT LINE AROUND NECK. TREATED AT REHAB FACILITY AND RELEASED.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2015	12	7	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	UNDERWEIGHT ANIMAL WITH FISHING LINE AROUND NECK. TREATED IN REHAB AND RELEASED.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2015	12	8	SHOOTING	SAN DIEGO	CA	SI	UNDERWEIGHT ANIMAL WITH MONOFILAMENT LINE AROUND NECK. TREATED AT REHAB FACILITY AND RELEASED.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2015	12	10	MARINE DEBRIS	MONTEREY	CA	SI	TWO FISH HOOKS AND GILLNET AROUND NECK. TREATED AT REHAB AND RELEASED.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2015	12	15	HOOK AND LINE FISHERY	LOS ANGELES	CA	NSI	FRESH CARCASS WITH EVIDENCE OF SHOOTING / FRESH DEAD. VESSEL TRAUMA (SHARP AND BLUNT) ROUGHLY PARE-RALL LACERATION/ IMPRESSIONS EXTENDING FOR L SIDE TIP OF NOSE DOWN TO BASE OF TAIL.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2015	12	17	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI		NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2015	12	20	HOOK AND LINE FISHERY	MONTEREY	CA	SI		NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2015	12	21	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI		NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2015	12	30	HOOK AND LINE FISHERY	ORANGE	CA	SI		NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2016	1	1	SHOOTING	PIERCE	WA	DEAD		DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	1	1	VESSEL STRIKE	PIERCE	WA	DEAD		DEAD	NA	1	N	Y

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CALIFORNIA SEA LION	U.S.	2016	1	14	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	MALNOURISHED ANIMAL WITH FISHING LINE WOUND AROUND DORSAL REGION. EUTHANIZED IN REHAB	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	1	14	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	MALNOURISHED ANIMAL WITH SWOLLEN LEFT FLIPPER WHERE FISHING HOOK HAD BEEN LOCATED. EUTHANIZED IN REHAB CENTER.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	1	20	GILLNET FISHERY	LOS ANGELES	CA	SI	MALNOURISHED ANIMAL WITH GILLNET ENTANGLEMENT INJURY AROUND NECK. EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	1	28	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	HOOK IN BOTTOM JAW. TAKEN TO REHAB, TREATED AND RELEASED	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2016	2	1	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	LETHARGIC AND EMACIATED ANIMAL WITH FISHING HOOK AND LINE IN MOUTH. INITIALLY SEEN ALIVE. LATER FOUND DEAD WITH FISHING LINE AROUND NECK.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	2	1	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	ANIMAL WITH CIRCUMFERENTIAL WOUNDS AROUND NECK. TREATED AT REHAB AND RELEASED.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2016	2	3	SHOOTING	SAN LUIS OBISPO	CA	SI	LETHARGIC AND EMACIATED ANIMAL EUTHANIZED IN REHAB. NECROPSY PERFORMED, DETAILS ON LOCATION OF GUNSHOT INJURY NOT GIVEN.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	2	4	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	EMACIATED ANIMAL WITH HOOK IN LEFT LOWER JAW, REMOVED EASILY BY RESCUERS. TREATED AT REHAB AND RELEASED.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2016	2	14	HARASSMENT	SAN DIEGO	CA	NSI	SEA LION PUP ON BEACH BEING HARASSED BY PUBLIC, REPORTEDLY BEING TOUCHED AND PINCHED. TAKEN TO REHAB FACILITY, TREATED AND RELEASED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2016	2	15	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	FISH HOOK IN RIGHT SIDE OF LOWER LIP. ANIMAL TREATED IN REHAB AND RELEASED.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2016	2	15	MARINE DEBRIS	CLATSOP	OR	SI	CIRCUMFERENTIAL, CONSTRICTING WOUND AROUND NECK, POSSIBLY FROM PACKING BAND MATERIAL. NO RESCUE EFFORT INITIATED.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	2	16	MARINE DEBRIS	CLATSOP	OR	SI	CIRCUMFERENTIAL WOUND AROUND NECK FROM UNKNOWN MATERIAL. MATERIAL CUTTING INTO SKIN, SUBDERMAL LAYER EXPOSED. NO RESCUE EFFORT.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	2	16	HOOK AND LINE FISHERY	CLATSOP	OR	SI	CIRCUMFERENTIAL CONSTRICTING WOUND AROUND NECK FROM WHAT APPEARS TO BE SINGLE STRAND OF MONOFILAMENT LINE. NO RESCUE EFFORT.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	2	16	MARINE DEBRIS	CLATSOP	OR	SI	CIRCUMFERENTIAL ENTANGLEMENT AROUND NECK, CONSTRICTING, MATERIAL UNKNOWN. NO RESCUE	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	2	16	MARINE DEBRIS	CLATSOP	OR	SI	CIRCUMFERENTIAL ENTANGLEMENT AROUND NECK, CONSTRICTING, MATERIAL UNKNOWN. NO RESCUE	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	2	18	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	CIRCUMFERENTIAL WOUND AROUND NECK FROM FISHING LINE. TREATED AT REHAB FACILITY AND	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2016	2	23	SHOOTING	LINCOLN	OR	DEAD	APPARENT BULLET ENTRY WOUND AT DORSAL INSERTION OF RIGHT FRONT FLIPPER; RADIUS AND ULNA SHATTERED; SURROUNDING TISSUED HEMORRHAGED	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	2	24	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	EMACIATED ANIMAL WITH HOOK IN MOUTH. TREATED AT REHAB FACILITY AND RELEASED.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2016	2	24	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	EMACIATED ANIMAL WITH HOOK IN MOUTH. TREATED AT REHAB FACILITY AND RELEASED.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2016	2	24	OIL / TAR	SAN LUIS OBISPO	CA	SI	EMACIATED ANIMAL WITH LACERATION NEAR EYE AND OIL / TAR ON BODY. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	2	25	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	SEVERELY EMACIATED, MONOFILAMENT FISHING LINE WRAPPED AROUND FACE AND BEHIND EYES. SEVERE POOR BODY CONDITION RESULTING FROM ENTRAPMENT WITH FISHING TACKLE, AND GASTROESOPHAGEAL WOUNDS ASSOCIATED WITH INGESTED FISHING TACKLE FOREIGN BODIES WAS CONSIDERED TO BE THE PRIMARY CAUSE OF DEATH.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	2	26	OPEN ACCESS CA HALIBUT BOTTOM TRAWL	OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	2	27	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	EMACIATED ANIMAL WITH FISHING HOOK IN CHEEK. TREATED AT REHAB FACILITY AND RELEASED.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2016	2	28	HOOK AND LINE FISHERY	ORANGE	CA	SI	MALNOURISHED ANIMAL WITH FISHING LINE IN MOUTH. TREATED AND DIED IN REHAB FACILITY. NECROPSY PERFORMED.	DEAD	NA	1	N	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
CALIFORNIA SEA LION	U.S.	2016	2	28	MARINE DEBRIS	SAN LUIS OBISPO	CA	SI	MALNOURISHED ANIMAL ENTANGLED IN MARINE DEBRIS. ANIMAL EUTHANIZED AT REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	3	7	VEHICLE COLLISION	LOS ANGELES	CA	DEAD	HIT BY CAR.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	3	12	OIL / TAR	MONTEREY	CA	SI	EMACIATED ANIMAL WITH SMALL PATCH OF TAR ON ABDOMEN TAKEN INTO REHAB FACILITY, TREATED AND RELEASED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2016	3	13	MARINE DEBRIS	VENTURA	CA	SI	ANIMAL DISENTANGLED FROM EITHER MARINE DEBRIS OR FISHING GEAR. ENTANGLING MATERIAL WAS NOT DESCRIBED BY RESPONDERS.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2016	3	15	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	MALNOURISHED ANIMAL WITH FISHING LINE ENTANGLEMENT SCAR AROUND NECK. ANIMAL DIED IN SEVERAL SUSPICIOUS HOLES & HEMORRHAGE IN THE BODY; SKULL TOTALLY EXPOSED; KIDNEYS & LUNGS ABNORMAL; A SUBSTANTIAL AMOUNT OF CLOUDY, PINK-TINGED FLUID IN THORACIC CAVITY; THE ANIMAL HAD GOOD BODY CONDITION.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	3	16	SHOOTING	NA	OR	DEAD		DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	3	17	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	MALNOURISHED PUP WITH FISHING LINE IN MOUTH THAT WRAPS AROUND BODY AND FLIPPER WITH ONE HOOK IN FLIPPER AND TWO HOOKS IN MOUTH. HOOKS AND LINE REMOVED IN REHAB FACILITY, ANIMAL RELEASED.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2016	3	19	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	FISH HOOK IN LOWER JAW AND LIP OF MALNOURISHED ANIMAL. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	3	23	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	ANIMAL WITH GOOD BODY CONDITION WITH HOOK IN MOUTH, TREATED IN REHAB AND RELEASED.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2016	3	24	HOOK AND LINE FISHERY	SAN DIEGO	CA	NSI	HOOK IN LEFT FRONT FLIPPER, REMOVED AT REHAB FACILITY.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2016	3	27	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	3 HOOKS ON FLIPPERS, OIL/TAR PATCH ON EMACIATED ANIMAL. DIED IN REHAB.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	3	27	MARINE DEBRIS	SANTA CRUZ	CA	SI	EMACIATED ANIMAL WITH PLASTIC IN ITS STOMACH. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	3	28	HOOK AND LINE FISHERY	SAN DIEGO	CA	NSI	FISHING HOOK ON RIGHT SIDE OF FACE NEAR EYE, EMACIATED ANIMAL. TREATED IN REHAB AND RELEASED.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2016	3	28	SHOOTING	NA	OR	DEAD	ENTRANCE/EXIT HOLES WITH ASSOCIATED BONE DAMAGE, HEMORRHAGE, AND BLOOD CLOTTING; HEMORRHAGE ALSO IN OTHER AREAS OF BODY AND JUST ANTERIOR TO HEART; INTESTINES TIGHTLY TWISTED; THE SEA LION HAD EXCELLENT BODY CONDITION.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	3	31	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	HOOK REMOVED FROM MOUTH AND ANIMAL RELEASED ON THE BEACH. NO INFORMATION ON CONDITION OF ANIMAL WITH WOUND AROUND NECK FROM UNKNOWN CAUSE. TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2016	4	1	MARINE DEBRIS	LOS ANGELES	CA	SI	ANIMAL WITH FISHING LINE WRAPPED AROUND NECK, DIED IN REHAB.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	2	HOOK AND LINE FISHERY	MONTEREY	CA	SI		DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	4	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 4 (ODFW SUMMARY): ONE OF TEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	4	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 4 (ODFW SUMMARY): ONE OF TEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	4	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 4 (ODFW SUMMARY): ONE OF TEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	4	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 4 (ODFW SUMMARY): ONE OF TEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	4	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 4 (ODFW SUMMARY): ONE OF TEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	4	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 4 (ODFW SUMMARY): ONE OF TEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y

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CALIFORNIA SEA LION	U.S.	2016	4	4	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 4 (ODFW SUMMARY): ONE OF TEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	4	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 4 (ODFW SUMMARY): ONE OF TEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	4	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 4 (ODFW SUMMARY): ONE OF TEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	4	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 4 (ODFW SUMMARY): ONE OF TEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	4	HOOK AND LINE FISHERY	ORANGE	CA	SI	EMACIATED ANIMAL WITH FISH HOOKS IN HEAD AND FLIPPERS, DIED IN REHAB.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	4	SHOOTING	NA	OR	DEAD	OCCIPITAL BROKEN WITH ASSOCIATED HEMORRHAGE; TRACKS AND VARIOUS AREAS OF EXTENSIVE HEMORRHAGE IN BODY; SOME ORGANS HEMORRHAGED; THE ANIMAL HAD EXCELLENT BODY CONDITION.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	4	SHOOTING	PACIFIC	WA	DEAD	TRACKS WITH ASSOCIATED HOLES AND HEMORRHAGE IN BODY; TWO BROKEN RIBS; ABDOMINAL CAVITY FILLED WITH BLOODY FLUID; LIVER LOBE RUPTURED WITH CLOTTING; INTESTINES TWISTED; THE ANIMAL HAD EXCELLENT BODY CONDITION.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	5	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	UNDERWEIGHT ANIMAL WITH HOOK IN FLIPPER. TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2016	4	6	HOOK AND LINE FISHERY	ORANGE	CA	SI	FISHING LINE GOING DOWN THROAT. DIED IN REHAB.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	6	HOOK AND LINE FISHERY	ORANGE	CA	SI	UNDERWEIGHT ANIMAL WITH FISHING LINE GOING DOWN THROAT, SUSPECTED INGESTED FISH HOOK. OUTCOME UNKNOWN.	SI	P2	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	11	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 11 (ODFW SUMMARY): ONE OF SIX CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	11	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 11 (ODFW SUMMARY): ONE OF SIX CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	11	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 11 (ODFW SUMMARY): ONE OF SIX CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	11	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 11 (ODFW SUMMARY): ONE OF SIX CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	11	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 11 (ODFW SUMMARY): ONE OF SIX CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	12	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	MALNOURISHED ANIMAL WITH MONOFILAMENT AROUND HEAD TREATED IN REHAB AND RELEASED.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2016	4	12	OIL / TAR	SAN DIEGO	CA	SI	ANIMAL WITH OIL / TAR ON VARIOUS BODY PARTS FOUND IN GARAGE. TREATED AT REHAB AND RELEASED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2016	4	13	MARINE DEBRIS	MONTEREY	CA	SI	EMACIATED ANIMAL WITH GLASS FOUND IN STOMACH. EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	15	MARINE DEBRIS	CLALLAM	OR	SI	CIRCUMFERENTIAL ENTANGLEMENT AROUND NECK, CONSTRICTING, MATERIAL UNKNOWN. NO RESCUE	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	18	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 18 (ODFW SUMMARY): ONE OF THIRTEEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	18	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 18 (ODFW SUMMARY): ONE OF THIRTEEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y

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CALIFORNIA SEA LION	U.S.	2016	4	18	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 18 (ODFW SUMMARY): ONE OF THIRTEEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	18	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 18 (ODFW SUMMARY): ONE OF THIRTEEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	18	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 18 (ODFW SUMMARY): ONE OF THIRTEEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	18	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 18 (ODFW SUMMARY): ONE OF THIRTEEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	18	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 18 (ODFW SUMMARY): ONE OF THIRTEEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	18	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 18 (ODFW SUMMARY): ONE OF THIRTEEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	18	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 18 (ODFW SUMMARY): ONE OF THIRTEEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	18	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 18 (ODFW SUMMARY): ONE OF THIRTEEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	18	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 18 (ODFW SUMMARY): ONE OF THIRTEEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	18	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 18 (ODFW SUMMARY): ONE OF THIRTEEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	18	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 18 (ODFW SUMMARY): ONE OF THIRTEEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	18	SHOOTING	CLATSOP	OR	DEAD	TREMENDOUS AND EXTENSIVE HEMORRHAGE IN BODY, ESP. AT NECK AND SCAPULAE AREAS; PERICARDIUM AND MEDIAL LUNGS HEMORRHAGED; INTESTINES TWISTED; ABDOMINAL CAVITY MODERATELY FILLED WITH BLOODY	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	23	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 23 (ODFW SUMMARY): ONE OF NINE CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	23	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 23 (ODFW SUMMARY): ONE OF NINE CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	23	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 23 (ODFW SUMMARY): ONE OF NINE CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	23	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 23 (ODFW SUMMARY): ONE OF NINE CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	23	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 23 (ODFW SUMMARY): ONE OF NINE CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	23	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 23 (ODFW SUMMARY): ONE OF NINE CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	4	23	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF APRIL 23 (ODFW SUMMARY): ONE OF NINE CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y

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Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
CALIFORNIA SEA LION	U.S.	2016	5	9	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF MAY 9TH (ODFW SUMMARY): ONE OF SEVEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	5	9	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF MAY 9TH (ODFW SUMMARY): ONE OF SEVEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	5	9	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF MAY 9TH (ODFW SUMMARY): ONE OF SEVEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	5	9	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	WEEK OF MAY 9TH (ODFW SUMMARY): ONE OF SEVEN CA SEA LIONS TARGETED FOR REMOVAL THAT WERE TRAPPED AND EUTHANIZED UNDER MMPA SECTION 120.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	5	9	SHOOTING	TILLAMOOK	OR	DEAD	SUSPICIOUS GASHES AND HOLES W/ASSOCIATED TRACKS, CLOTTING, AND/OR HEMORRHAGE; ADDITIONAL EXTENSIVE HEMORRHAGE IN VARIOUS AREAS OF BODY; ORGANS HEMORRHAGED; THREE BROKEN RIBS; INTESTINES TWISTED; THE ANIMAL HAD EXCELLENT BODY CONDITION.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	5	13	MARINE DEBRIS	SAN DIEGO	CA	SI	ANIMAL HAD INGESTED A SOCK AND PLASTIC PARTS. EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	5	14	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	ANIMAL WITH GOOD BODY WEIGHT RESCUED BECAUSE OF MONOFILAMENT LINE AROUND NECK. ALSO HAD A HOOK IN CHEST. TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2016	5	14	SHOOTING	MENDOCINO	CA	SI	RADIOGRAPHS OF EUTHANIZED ANIMAL SHOWED EVIDENCE OF METALLIC FRAGMENTS.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	5	15	SHOOTING	SANTA CRUZ	CA	DEAD	STRANDED ANIMAL WITH DORSAL GUNSHOT ENTRY WOUND AND VENTRAL EXIT WOUND.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	5	16	HOOK AND LINE FISHERY	SANTA CRUZ	CA	SI	FISHING LINE, HOOK AND LURE ENTANGLED AROUND REAR FLIPPERS OF EMACIATED ANIMAL. TREATED AT REHAB FACILITY AND RELEASED.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2016	5	17	SHOOTING	SANTA CRUZ	CA	DEAD	MARINE MAMMAL CENTER RESPONDED AND SEA LION WAS DECEASED WHEN THEY ARRIVED TO THE BEACH. WAS OBSERVED HAVING TROUBLE BREATHING, HEAD THRUSTS AND POSSIBLE SEIZURES. FOUND SMALL CALIBER BULLET RESTING AGAINST OPPOSITE KIDNEY WHICH HAD HEMORRHAGE. GUNSHOT CAUSE OF DEATH.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	5	19	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	MALNOURISHED SEIZURING ANIMAL WITH FISH HOOKS IN FRONT AND REAR FLIPPERS AND EARS. ANIMAL DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	5	20	GILLNET FISHERY	ORANGE	CA	SI	GILLNET WOUND AROUND NECK, TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P7B	0	Y	N
CALIFORNIA SEA LION	U.S.	2016	5	23	SHOOTING	SAN LUIS OBISPO	CA	SI	GOOD BODY CONDITION, SUPERFICIAL LACERATIONS NEAR HEAD AND LEFT SIDE, ALERT BUT NOT ACTIVE, OBSERVED OVERNIGHT AND FOUND IN THE SAME LOCATION NEXT DAY. RADIOGRAPHS SHOWED BUCKSHOT SCATTERED THROUGHOUT CERVICAL REGION. ANIMAL TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2016	5	23	SHOOTING	CLATSOP	OR	DEAD	EVIDENCE OF HOLES AND TRACKING WOUNDS WITH ASSOCIATED HEMORRHAGE IN BODY; OTHER AREAS OF HEMORRHAGE/DAMAGE IN BODY/ORGANS; THORACIC CAVITY FILLED WITH BLOODY FLUID; SEA LION HAD EXCELLENT BODY CONDITION.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	5	26	HOOK AND LINE FISHERY	MONTEREY	CA	SI	DARTING CAPTURE, MONOFILAMENT ENTANGLEMENT AROUND NECK, MILDLY UNDERWEIGHT. TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2016	5	27	MARINE DEBRIS	MONTEREY	CA	SI	TWINE AROUND NECK, TREATED AT REHAB AND RELEASED FROM REHAB FACILITY.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2016	5	31	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	FISHING LINE JUST IN FRONT OF SHOULDER BLADE JOINT. LACERATION APPROXIMATELY 3/4 WAY AROUND BODY WHERE LINE WAS. TREATED AT REHAB AND RELEASED.	NSI	P7B	0	N	N

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
CALIFORNIA SEA LION	U.S.	2016	5	31	SHOOTING	NA	OR	DEAD	SUSPICIOUS HOLES W/ASSOC. HEMORRHAGE; POSSIBLE EVIDENCE TRACK ASSOC. W/BLACKENED BLUBBER; THORACIC CAVITY FILLED WITH CLOUDY, PINK-TINGED FLUID; ODD HOLE W/GELATINOUS TISSUE IN LUNG; THORACIC L.N.'S ABNORMAL; KIDNEY DAMAGED AND HEMORRHAGIC	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	6	2	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	NSI	ANIMAL BRIEFLY ENTANGLED AND RELEASED WITHOUT APPARENT INJURY.	NSI	P4	0	N	N
CALIFORNIA SEA LION	U.S.	2016	6	4	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	FISHING HOOK CAUGHT IN LOWER LEFT LIP WITH ~70 CENTIMETER FISHING LINE AND 8 OUNCE WEIGHT STILL ATTACHED. AREA OUTSIDE OF THE MOUTH AROUND HOOK IS SWOLLEN; INSIDE THE MOUTH IS BLEEDING FROM HOOK WOUND. THIN WITH HIPS AND SPINE VISIBLE. GOOD HYDRATION/WETNESS AROUND THE EYES. ALERT AND ACTIVE. TREATED AND RELEASED FROM REHAB RESTRAND. MODERATELY UNDERWEIGHT, HEAD WEAVING, DISORIENTED. FULL CIRCUMFERENCE CERVICAL SCAR FROM PREVIOUS MONOFILAMENT ENTANGLEMENT. TAGGED ON BOTH FLIPPERS DURING PREVIOUS STRAND BECAUSE OF ENTANGLEMENT. EUTHANIZED IN REHAB	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2016	6	5	HOOK AND LINE FISHERY	MARIN	CA	SI	EMACIATED ANIMAL, FISH HOOKS IN MOUTH. ANIMAL DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	6	14	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	EMACIATED ANIMAL, FISH HOOKS IN MOUTH. ANIMAL DIED IN REHAB FACILITY.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2016	6	15	HOOK AND LINE FISHERY	MONTEREY	CA	SI	FISHING HOOK IN PECTORAL RIGHT FLIPPER WITH LINE WRAPPED AROUND. OTHERWISE GOOD BODY	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	6	15	HOOK AND LINE FISHERY OPEN ACCESS CA HALIBUT BOTTOM TRAWL	SAN DIEGO OFFSHORE	CA	SI NSI	ANIMAL BRIEFLY ENTANGLED AND RELEASED WITHOUT APPARENT INJURY.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2016	6	16	HOOK AND LINE FISHERY	SANTA CRUZ	CA	SI	EMACIATED ANIMAL WITH MONOFILAMENT ENTANGLEMENT AROUND NECK. DIED IN REHAB FACILITY. GOOD BODY CONDITION. ENTANGLED WITH GILL NET AROUND NECK CAUSING LARGE OPEN GASHES. TREATED AND RELEASED FROM REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	6	17	GILLNET FISHERY	SAN DIEGO	CA	SI	CIRCUMFERENTIAL ENTANGLEMENT AROUND NECK, CONSTRICTING, MATERIAL UNKNOWN. NO RESCUE	NSI	P7B	0	Y	N
CALIFORNIA SEA LION	U.S.	2016	6	19	MARINE DEBRIS	CLALLAM	OR	SI	FISH HOOK ON LOWER LEFT LIP/MOUTH AREA. HOOK REMOVED AND ANIMAL RELEASED ON SITE. NO INFORMATION ON BODY CONDITION.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	6	22	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	FISH HOOK ON LEFT FRONT FLIPPER. HOOK REMOVED AND ANIMAL RELEASED ON SITE.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2016	6	22	HOOK AND LINE FISHERY	SAN DIEGO	CA	NSI	FISH HOOK ON RIGHT FRONT FLIPPER. FISH HOOK WAS REMOVED AND ANIMAL WAS RELEASED ON SITE	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2016	7	2	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	MONOFILAMENT LINE WRAPPED AROUND ANIMAL'S NECK. ANIMAL GOOD WEIGHT, ACTIVE, ALERT. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	7	4	MARINE DEBRIS	LOS ANGELES	CA	SI	EMACIATED ANIMAL WITH CIRCUMFERENTIAL ENTANGLEMENT WOUND AROUND NECK; DIED IN REHAB FACILITY. ENTANGLING MATERIAL NOT KNOWN.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	7	4	SHOOTING	MONTEREY	CA	SI	MODERATELY UNDERWEIGHT ANIMAL WITH DISPLACED JAW. EUTHANIZED IN REHAB FACILITY. BULLET FOUND IN NECK UPON NECROPSY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	7	9	SCIENTIFIC RESEARCH	SAN MIGUEL ISLAND	CA	DEAD	PUP DIED DURING CAPTURE EFFORTS DUE TO ASPHYXIATION	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	7	17	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	ANIMAL CAUGHT AT BEACH, REMOVED THREE HOOKS FROM NECK, MOUTH AND BOTTOM OF LEFT FRONT FLIPPER. ANIMAL RELEASED AT SITE.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2016	7	24	SHOOTING OPEN ACCESS CA HALIBUT	NA	OR	DEAD	BULLET/PELLET ENTRANCE HOLE IN SKULL; VARIOUS AREAS OF HEMORRHAGE IN BODY; TWO APPROXIMATELY 9 CM DIAMETER HOLES FILLED WITH SAND IN BODY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	7	27	BOTTOM TRAWL	OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	7	28	OPEN ACCESS CA HALIBUT BOTTOM TRAWL	OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
CALIFORNIA SEA LION	U.S.	2016	7	28	OPEN ACCESS CA HALIBUT BOTTOM TRAWL	OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	7	29	HOOK AND LINE FISHERY	SAN DIEGO	CA	NSI	SUPERFICIAL ENTRY OF FISHING HOOK WITH LURE ON STOMACH. GOOD BODY CONDITION AND ATTITUDE. REMOVED HOOK AND RELEASED ON SITE.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2016	7	30	HOOK AND LINE FISHERY	ORANGE	CA	SI	FISHING LINE AROUND NECK, SMALL WOUNDS REAR FLIPPERS. TREATED AT REHAB FACILITY AND RELEASED.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2016	7	31	HOOK AND LINE FISHERY	SAN DIEGO	CA	NSI	LARGE FISH HOOK THROUGH RIGHT FRONT FLIPPER. REMOVED HOOK AND RELEASED ON SITE. GOOD BODY CONDITION.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2016	8	1	SHOOTING	LOS ANGELES	CA	SI	FISHING ENTANGLEMENT AROUND HEAD; LIMITED RANGE OF MOTION IN JAW; 2 SHOTGUN PELLETS BETWEEN SHOULDERS. EUTHANIZED AT REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	8	2	VESSEL STRIKE	SAN DIEGO	CA	SI	TRAUMA TO LEFT FRONT FLIPPER. APPROXIMATELY HALF OF THE TIP OF THE FLIPPER HAD BEEN SLICED OFF WITH BONE EXPOSED. DEHYDRATED, MILD TREMORS.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	8	8	GILLNET FISHERY	VENTURA	CA	DEAD	SUSPECTED PROPELLER WOUND. ANIMAL EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	8	24	SHOOTING	CLATSOP	OR	DEAD	ENTANGLED IN GILLNET AROUND NECK. BLOOD CLOTTING, EXTENSIVE HEMORRHAGE, AND SUSPICIOUS HOLES IN NECK; HEMORRHAGE IN HEAD AND BODY; URINE BLOODY; THE ANIMAL HAD GOOD BODY CONDITION.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	8	24	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	8	28	MARINE DEBRIS	LINCOLN	OR	SI	PACKING BAND CUTTING DEEPLY INTO NECK OF ANIMAL. FISHING LINE AROUND NECK, RIGHT ABOVE SHOULDERS. EMBEDDED WITH PUS AND LACERATIONS. TREATED AT REHAB FACILITY AND RELEASED.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	9	1	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	REHAB FACILITY AND RELEASED.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2016	9	11	VESSEL STRIKE	ORANGE	CA	SI	ANIMAL HAS PROP STRIKES ACROSS MID SECTION. JUMPED INTO HARBOR PATROL BOAT AND ALLOWED TEAM TO NET WITH NO FIGHTING. WALKED INTO CAGE. PREVIOUSLY RELEASED TWICE BY PMMC. ON 7/21/16 AT CHANNEL ISLANDS AT 137.8 POUNDS. LOST 27.8 POUNDS IN 52 DAYS. TRANSFERRED TO PUBLIC DISPLAY FACILITY.	CAPTIVITY	P9	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	9	12	MARINE DEBRIS	MONTEREY	CA	SI	MILDLY UNDERWEIGHT ANIMAL WITH ENTANGLEMENT AROUND NECK TAKEN INTO REHAB, TREATED AND RELEASED. NO INFORMATION ON ENTANGLING.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2016	9	12	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	MONOFILAMENT LINE PREVIOUSLY AROUND NECK. UPON RESCUE, LINE WAS WRAPPED AROUND FLIPPER TAG.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2016	9	12	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	RELEASED ON SITE.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	9	13	GILLNET FISHERY	SAN DIEGO	CA	SI	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	9	14	HOOK AND LINE FISHERY	MONTEREY	CA	SI	GILL NET EMBEDDED/ENTANGLED AROUND NECK. GOOD WEIGHT, ACTIVE, ALERT, VOCAL. TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P7B	0	Y	N
CALIFORNIA SEA LION	U.S.	2016	9	20	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	MONOFILAMENT AROUND NECK DEEP ENOUGH TO EXPOSE MUSCLE. TREATED AT REHAB AND RELEASED.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2016	9	21	HOOK AND LINE FISHERY	ORANGE	CA	SI	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	9	24	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	UNDERWEIGHT, FISH HOOK IN MOUTH RELEASED FROM PMMC ON 9/01/16 LOST 16.8 POUNDS IN 21 DAYS. ALTHOUGH ANIMAL WAS RELEASED FROM REHAB, WEIGHT LOSS WHILE IN REHAB CASTS DOUBT ON ABILITY OF ANIMAL TO SURVIVE POST-RELEASE.	SI	P5C	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	9	24	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	TWO INCH THREE HOOK FISHING LURE EMBEDDED IN THE TOP AND BOTTOM LIP OF THE OF THE ANIMAL MAKING HIM UNABLE TO OPEN HIS MOUTH. GOOD BODY CONDITION. ANIMAL WAS DE-HOOKED AND RELEASED ON SITE UNDER THE SUPERVISION OF A VETERINARIAN.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2016	10	2	SHOOTING	PACIFIC	OR	DEAD	EVIDENCE COLLECTED TO ENFORCEMENT, CLEAR EVIDENCE HOLE WITH TRACK, BONE DAMAGE, AND AREAS OF HEMORRHAGE IN HEAD AND/OR BODY	DEAD	NA	1	N	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

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CALIFORNIA SEA LION	U.S.	2016	10	8	SHOOTING	SANTA CRUZ	CA	SI	BUCKSHOT IN HIS MUZZLE AND FACE AND A BULLET LODGED IN HIS LEFT SHOULDER, EMACIATED, HARASSED BY PEOPLE ON THE BEACH, PETTING, EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	10	12	MS CATCHER VESSELS MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	10	16	SCIENTIFIC RESEARCH	SAN MATEO	CA	DEAD	ANO NUEVO ISLAND. ASPHYXIATION RESULTING FROM CAPTURE ACTIVITIES.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	10	18	SHOOTING	CLATSOP	OR	DEAD	CLEAR EVIDENCE HOLE IN OCCIPITAL BONE, VARIOUS AREAS OF HEMORRHAGE AND SUSPICIOUS HOLES IN ANIMAL, INCLUDING ABDOMEN	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	10	24	MARINE DEBRIS	SAN DIEGO	CA	SI	ACTIVE ANIMAL WITH GOOD BODY CONDITION HAD A PAIR OF SWIM GOGGLES AROUND MIDSECTION OF BODY. GOGGLES REMOVED AND ANIMAL RELEASED ON SITE. ANIMAL THAT HAD STRANDED MULTIPLE TIMES WITH FISH HOOK IN LEFT SIDE OF MOUTH AND IN LEFT REAR FLIPPER. VERY THIN BODY. TREATED AT REHAB FACILITY, BUT NO NOTES ON OUTCOME. TREATED AS SERIOUS INJURY, BASED ON MULTIPLE STRANDINGS AND BODY	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2016	10	26	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	EMACIATED. BLUNT FORCE TRAUMA TO PELVIS DUE TO BOAT STRIKE. EUTHANIZED IN REHAB FACILITY.	SI	P5C	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	10	27	MS CATCHER VESSELS MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	10	28	VESSEL STRIKE	MARIN	CA	SI	ANIMAL BRIEFLY ENTANGLED AND RELEASED WITHOUT APPARENT INJURY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	10	28	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	NSI	ANIMAL BRIEFLY ENTANGLED AND RELEASED WITHOUT APPARENT INJURY.	NSI	P4	0	N	N
CALIFORNIA SEA LION	U.S.	2016	10	28	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	10	29	CATCH SHARES BOTTOM TRAWL MS CATCHER VESSELS	OFFSHORE	CA	NSI	ANIMAL CAPTURED IN NET. RELEASED ALIVE AFTER BEING BROUGHT ON BOARD.	NSI	P4	0	N	N
CALIFORNIA SEA LION	U.S.	2016	10	29	MS CATCHER VESSELS MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	10	31	MARINE DEBRIS	MONTEREY	CA	SI	EMACIATED, ENTANGLEMENT CUTTING IN AROUND SHOULDERS. EUTHANIZED IN REHAB FACILITY. INITIALLY IDENTIFIED AS FISHERY INTERACTION, BUT TYPE OF ENTANGLING MATERIAL WAS NOT IDENTIFIED.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	11	3	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	11	5	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	11	6	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	NSI	ANIMAL BRIEFLY ENTANGLED AND RELEASED WITHOUT APPARENT INJURY.	NSI	P4	0	N	N
CALIFORNIA SEA LION	U.S.	2016	11	6	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	NSI	ANIMAL BRIEFLY ENTANGLED AND RELEASED WITHOUT APPARENT INJURY.	NSI	P4	0	N	N
CALIFORNIA SEA LION	U.S.	2016	11	6	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	NSI	ANIMAL BRIEFLY ENTANGLED AND RELEASED WITHOUT APPARENT INJURY.	NSI	P4	0	N	N
CALIFORNIA SEA LION	U.S.	2016	11	6	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	11	7	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	11	7	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	11	7	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	11	8	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	11	8	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	11	9	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	11	10	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	11	10	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y

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CALIFORNIA SEA LION	U.S.	2016	11	16	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	11	16	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	NSI	ANIMAL BRIEFLY ENTANGLED AND RELEASED WITHOUT APPARENT INJURY.	NSI	P4	0	N	N
CALIFORNIA SEA LION	U.S.	2016	11	17	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	11	17	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	11	17	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	11	17	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	11	17	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	11	18	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	11	18	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	11	18	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2016	11	18	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	NSI	ANIMAL BRIEFLY ENTANGLED AND RELEASED WITHOUT APPARENT INJURY.	NSI	P4	0	N	N
CALIFORNIA SEA LION	U.S.	2016	12	3	GILLNET FISHERY	SAN DIEGO	CA	SI	GILL NET DEEPLY EMBEDDED AROUND NECK. BODY CONDITION GOOD, HYDRATION LEVEL GOOD. TREATED AT REHAB FACILITY AND RELEASED.	NSI	P7B	0	Y	N
CALIFORNIA SEA LION	U.S.	2016	12	4	SHOOTING	CLATSOP	OR	DEAD	EVIDENCE HOLE AND FRACTURES IN SKULL W/ASSOC. HEMORRHAGE, AS WELL AS PALATE, SNOUT, AND TOOTH DAMAGE	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	12	12	SHOOTING	CLATSOP	OR	DEAD	SUSPICIOUS 1-CM DIA. HOLE THROUGH SKIN AT DORSAL SNOUT, WITH SNOUT SHATTERED; SIMILAR HOLE AT MANDIBLE; DEEP HEMORRHAGE IN VARIOUS AREAS OF BODY	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	12	14	SHOOTING	CLATSOP	OR	DEAD	SNOUT SHATTERED AND ADDITIONAL MANDIBULAR DAMAGE; SOME HEMORRHAGE IN BODY; THE SEA LION HAD EXCELLENT BODY CONDITION.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2016	12	18	CATCH SHARES BOTTOM TRAWL	OFFSHORE	WA	NSI	ANIMAL BRIEFLY ENTANGLED AND RELEASED WITHOUT APPARENT INJURY.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2016	12	28	UNIDENTIFIED HUMAN INTERACTION	KING	WA	DEAD	CARCASS FOUND WITH ROPE AROUND IT.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	1	4	SHOOTING	MONTEREY	CA	SI	UNDERWEIGHT AND LETHARGIC ANIMAL. PRE-MORTEM RADIOGRAPHS SHOWED BUCKSHOT IN CERVICAL SPINE. EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	1	6	CA SWORDFISH DRIFT GILLNET FISHERY	NA	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	1	14	HOOK AND LINE FISHERY	ORANGE	CA	SI	UNDERWEIGHT ANIMAL ASSOCIATED WITH FISHING LINE AND LURE. TREATED AND RELEASED. NO DETAILS GIVEN ON EXTENT OF INJURY ASSOCIATED WITH GEAR. TREATED AS SERIOUS INJURY DUE TO LACK OF DETAILS.	SI	P1	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	1	27	SCIENTIFIC RESEARCH OPEN ACCESS CA HALIBUT BOTTOM TRAWL	VENTURA	CA	DEAD	ANIMAL STARTLED DURING RESEARCH ACTIVITIES AND FELL OVER CLIFF.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	1	31	HOOK AND LINE FISHERY	OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	2	4	HOOK AND LINE FISHERY	SAN DIEGO	CA	NSI	MALE ADULT CALIFORNIA SEA LION HAD ABOUT AN 8 INCH FISHING LURE ATTACHED TO HIS RIGHT FLIPPER. HE SEEMED TO HAVE GOOD BODY CONDITION. THE LURE WAS SUCCESSFULLY REMOVED AND THE ANIMAL WAS RELEASED ON SITE.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2017	2	9	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	ANIMAL WITH GOOD BODY CONDITION AND A TREBLE HOOK IN LEFT CHEEK AND LURE AND HOOK IN LOWER RIGHT JAW. ANIMAL TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P5C	0	N	N

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
CALIFORNIA SEA LION	U.S.	2017	2	13	MARINE DEBRIS	SAN DIEGO	CA	SI	ANIMAL IN GOOD BODY CONDITION HAD RUBBER GASKET AROUND HEAD LOCATED BEHIND EARS AND UNDER CHIN. REMOVED GASKET AND RELEASED ON SITE. RUBBER GASKET APPROXIMATELY 8 INCHES IN DIAMETER. BEFORE RESCUE, ANIMAL WAS SEEN FREQUENTLY IN ORANGE COUNTY BY PACIFIC MARINE MAMMAL CENTER AS WELL	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2017	2	14	SHOOTING	LINCOLN	OR	DEAD	DEAD ANIMAL WITH LARGE CALIBER COPPER BULLET BULLET FOUND IN CAUDAL LUMBAR AREA.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	2	22	OPEN ACCESS CA HALIBUT BOTTOM TRAWL	OFFSHORE CA	NA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	2	25	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	WOUND AROUND NECK DUE TO MONOFILAMENT LINE AROUND NECK. ANIMAL TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2017	3	17	SHOOTING	SOLANO	CA	SI	GUNSHOT TRAUMA, BLIND ANIMAL. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	3	20	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	VENTURA	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	3	20	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	VENTURA	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	3	22	CATCH SHARES BOTTOM TRAWL UNIDENTIFIED FISHERY INTERACTION	OFFSHORE	CA	NSI	ANIMAL ENTANGLED IN NET, BROUGHT ON DECK AND ANIMAL EXITED VESSEL UNDER ITS OWN POWER.	NSI	P4	0	N	N
CALIFORNIA SEA LION	U.S.	2017	3	26	UNIDENTIFIED FISHERY INTERACTION	SAN DIEGO	CA	SI	MONOFILAMENT LINE REMOVED FROM ANIMAL IN GOOD BODY CONDITION.	NSI	P7B	0	Y	N
CALIFORNIA SEA LION	U.S.	2017	3	31	SHOOTING	ORANGE	CA	SI	ANIMAL SHOT WITH ARROW THROUGH NECK. MEMBERS OF PUBLIC / FISHERMEN REMOVED ARROW FROM ANIMAL, WHICH THEN DEPARTED SCENE. EXTENT OF INJURY UNKNOWN, CONSIDERED SERIOUS INJURY.	SI	P9	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	4	9	MARINE DEBRIS	LOS ANGELES	CA	SI	ANIMAL INGESTED AN UNKNOWN MATERIAL, EUTHANIZED IN REHAB.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	4	10	VEHICLE COLLISION	ORANGE	CA	SI	PREGNANT FEMALE HIT BY CAR, EUTHANIZED IN REHAB.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	4	15	NEARSHORE HOOK AND LINE	OFFSHORE	CA	SI	ANIMAL GRABBED GEAR WITH 7 HOOKS ATTACHED AND DEPARTED TRAILING GEAR.	SI	P5A	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	4	16	HOOK AND LINE FISHERY	ORANGE	CA	SI	FISH HOOKS IN FLIPPER AND MOUTH. TREATED AT REHAB FACILITY AND RELEASED.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2017	4	19	SHOOTING	ORANGE	CA	SI	ANIMAL SHOT IN RIGHT SHOULDER. EUTHANIZED AT REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	4	19	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	4	20	SHOOTING	CLATSOP	OR	DEAD	ANIMAL WITH TREMENDOUS HEMORRHAGE AT HEAD AND NECK, WITH APPARENT BULLET EXIT HOLE IN	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	4	21	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	VENTURA	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	4	21	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	LETHARGIC ANIMAL WITH FISHING LINE AROUND FLIPPER AND POSSIBLE INGESTED FISHING HOOK. ANIMAL TREATED AT REHAB FACILITY AND RELEASED.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2017	4	24	HOOK AND LINE FISHERY	ORANGE	CA	SI	UNDERWEIGHT ANIMAL WITH FISHING HOOK AND LINE AROUND FLIPPER. TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2017	4	25	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	4	25	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	4	25	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	4	25	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
CALIFORNIA SEA LION	U.S.	2017	4	25	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	4	27	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	5	2	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	5	3	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	5	4	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	VENTURA	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	5	4	HOOK AND LINE FISHERY	MONTEREY	CA	SI	MONOFILAMENT LINE AROUND FISHING NECK. TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2017	5	4	MARINE DEBRIS	SAN LUIS OBISPO	CA	SI	MEMBER OF PUBLIC DISENTANGLED ANIMAL FROM UNKNOWN CONSTRICTING MATERIAL. TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2017	5	7	GILLNET FISHERY	LOS ANGELES	CA	SI	ANIMAL WITH GILLNET WOUND TAKEN INTO REHAB FACILITY. TREATED AND RELEASED.	NSI	P7B	0	Y	N
CALIFORNIA SEA LION	U.S.	2017	5	9	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	5	10	MARINE DEBRIS	LOS ANGELES	CA	SI	INGESTED HARD PLASTIC TRASH. EUTHANIZED AT REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	5	10	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	5	10	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	5	11	MARINE DEBRIS	LOS ANGELES	CA	SI	INGESTED FOREIGN BODY. TREATED AT REHAB AND RELEASED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2017	5	11	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	5	16	SHOOTING	MONTEREY	CA	SI	GUNSHOT AND LACERATIONS. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	5	16	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	5	17	MARINE DEBRIS	LOS ANGELES	CA	SI	WOODEN BLOCK MATERIAL FOUND IN STOMACH. ANIMAL DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	5	17	MARINE DEBRIS	MONTEREY	CA	SI	PACKING STRAP ENTANGLEMENT. TREATED AT REHAB AND RELEASED.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2017	5	17	HOOK AND LINE FISHERY	SANTA BARBARA	CA	DEAD	FISHING LINE AROUND HEAD AND NECK.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	5	17	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	5	18	HOOK AND LINE FISHERY	ORANGE	CA	SI	UNDERWEIGHT ANIMAL WITH FISH HOOKS IN CHEST, HIP, AND REAR FLAPPER. TREATED AT REHAB AND RELEASED.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2017	5	22	MARINE DEBRIS	LINCOLN	OR	SI	LARGE CONSTRICTING INJURY AROUND NECK WITH PROTRUDING TISSUE. ANIMAL WAS NOT PRESENT NEXT DAY.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	5	23	MARINE DEBRIS	SAN DIEGO	CA	SI	BALLOON FOUND IN FECAL MATERIAL OF UNDERWEIGHT, LETHARGIC ANIMAL. TREATED AT REHAB AND RELEASED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2017	5	26	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	FISH HOOK IN LIP AND REAR FLAPPER. TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2017	5	28	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	FISHING LINE AROUND NECK. SWOLLEN FACE ON BOTH SIDES FROM STING RAY BARB INJURY FOUND DURING SURGERY. EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	5	28	SHOOTING	LOS ANGELES	CA	SI	BULLET WOUND ACROSS NOSE AND EYE, SECOND BULLET IN NECK. TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P9	0	N	N

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
CALIFORNIA SEA LION	U.S.	2017	5	28	HOOK AND LINE FISHERY	LINCOLN	OR	SI	SALMON FLASHER LURE AND SEVERAL FEET OF LINE HANGING OUT OF MOUTH. TRAUMA EVIDENT AT LEFT SIDE OF MOUTH.	SI	P2	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	5	29	HOOK AND LINE FISHERY	ORANGE	CA	NSI	FISH HOOK IN BACK. PUBLIC FEEDING AND HOLDING ANIMAL. TREATED AT REHAB AND RELEASED.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2017	5	29	OPEN ACCESS CA HALIBUT BOTTOM TRAWL	OFFSHORE	CA	NSI	ANIMAL ENTANGLED IN NET, BROUGHT ON DECK AND ANIMAL EXITED VESSEL UNDER ITS OWN POWER.	NSI	P4	0	N	N
CALIFORNIA SEA LION	U.S.	2017	5	31	MARINE DEBRIS	LOS ANGELES	CA	SI	GASTRIC IMPACTION WITH INGESTED PLASTIC AND ROCKS. ANIMAL DIED IN REHAB.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	6	1	MARINE DEBRIS	LOS ANGELES	CA	SI	ANIMAL INGESTED METALLIC FOIL MATERIAL. EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	6	3	SHOOTING	LOS ANGELES	CA	SI	PELLET LODGED BEHIND RIGHT EYE INSIDE SKULL DETERMINED VIA RADIOGRAPH. NO DETAILS ON FINAL OUTCOME OF CASE, ASSIGNED AS SERIOUS INJURY.	SI	P9	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	6	4	SHOOTING	LOS ANGELES	CA	SI	ANIMAL WITH PELLET INSIDE HEAD AND MISSING EYE TREATED AT REHAB AND TRANSFERRED TO PUBLIC DISPLAY FACILITY.	CAPTIVITY	P9	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	6	6	SHOOTING	CLALLAM	WA	SI	CARCASS AND SKELETON COLLECTED FOR SCIENTIFIC RESEARCH. A CROSSBOLT ARROW WAS FOUND IN THE THORACIC CAVITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	6	6	OPEN ACCESS CA HALIBUT BOTTOM TRAWL	OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	6	7	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	VENTURA	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	6	7	SHOOTING	SAN LUIS OBISPO	CA	SI	MALNOURISHED ANIMAL WITH GUNSHOT WOUND TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2017	6	7	HOOK AND LINE FISHERY CA HALIBUT AND WHITE	ORANGE	CA	SI	ANIMAL WITH SEIZURES CAPTURED WITH FISH HOOK IN MOUTH. TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2017	6	9	SEABASS SET GILLNET FISHERY CA HALIBUT AND WHITE	VENTURA	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	6	9	SEABASS SET GILLNET FISHERY	VENTURA	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	6	15	SHOOTING	LOS ANGELES	CA	SI	ANIMAL WITH PELLET SHOTS AND A BRAIN HEMORRHAGE EUTHANIZED AT REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	6	16	MARINE DEBRIS	LOS ANGELES	CA	SI	MARINE DEBRIS INGESTION AND DOMOIC ACID TOXICITY. ANIMAL CHASING MEMBERS OF PUBLIC. EUTHANIZED AT REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	6	23	SHOOTING	LOS ANGELES	CA	SI	HUMAN INTERACTION WITH GUNSHOT; SPINAL PERFORATION BETWEEN APPARENT ENTRY WOUND AND BULLET. EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	6	24	MARINE DEBRIS	MONTEREY	CA	SI	MALNOURISHED ANIMAL WITH GREEN NYLON ROPE AROUND NECK, BUT NOT EMBEDDED IN TISSUE. EUTHANIZED IN REHAB DUE TO RENAL FAILURE.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	7	1	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	ANIMAL WAS ENTANGLED IN FISHING LINE WITH ONE LARGE HOOK IN HIS NECK AND ONE LARGE HOOK IN HIS LOWER JAW. EXCELLENT BODY CONDITION. TREATED IN REHAB FACILITY AND RELEASED.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2017	7	6	OPEN ACCESS CA HALIBUT BOTTOM TRAWL	OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	7	7	HOOK AND LINE FISHERY	SANTA BARBARA	CA	SI	TWO FISH HOOKS REMOVED FROM MOUTH OF ANIMAL. TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2017	7	8	HOOK AND LINE FISHERY	SAN LUIS OBISPO	CA	SI	MALNOURISHED ANIMAL WITH MONOFILAMENT LINE ENTANGLED AROUND THE HEAD AND EARS. NO ADDITIONAL DETAILS.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	7	18	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	ANIMAL WITH MONOFILAMENT LINE WRAPPED AROUND HIS NECK ABOUT 5 CENTIMETERS FROM HIS FOREFLIPPERS, CAUSING LACERATIONS. TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2017	7	19	MARINE DEBRIS	LOS ANGELES	CA	SI	CIRCUMFERENTIAL WOUND AROUND NECK. ENTANGLING MATERIAL UNKNOWN. TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P7B	0	N	N

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
CALIFORNIA SEA LION	U.S.	2017	7	26	HOOK AND LINE FISHERY	SAN MATEO	CA	SI	MALNOURISHED ANIMAL WITH FISHING HOOK EMBEDDED IN MAXILLARY BUCCAL MUCOSA. EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	7	26	HOOK AND LINE FISHERY	SANTA CRUZ	CA	SI	ONE TO TWO-INCH FISH HOOK WITH RED/YELLOW FEATHERS FOUND IN PYLORIC REGION OF STOMACH. GUNSHOT TRAUMA TO JAW. EUTHANIZED AT REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	8	8	SHOOTING	SAN MATEO	CA	SI	FRESH DEAD ANIMAL WITH ENTANGLEMENT INJURY AROUND NECK AND CONFIRMED (VIA X-RAY) BULLET AND SEVERE SKULL FRACTURES.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	8	8	GILLNET FISHERY	SAN DIEGO	CA	DEAD	FISHERY INTERACTION INDICATED BY LINEAR ABRASIONS AROUND BODY.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	8	11	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	FISH HOOK IN LIP. TREATED AND RELEASED FROM REHAB FACILITY.	NSI	PSC	0	N	N
CALIFORNIA SEA LION	U.S.	2017	8	15	HOOK AND LINE FISHERY	MONTEREY	CA	SI	EMACIATED, ALERT BUT NOT ACTIVE, FISH HOOK AND LINE FELL OUT OF CORNER OF MOUTH DURING RESCUE. TREATED AT REHAB FACILITY AND RELEASED.	NSI	PSC	0	N	N
CALIFORNIA SEA LION	U.S.	2017	8	15	OPEN ACCESS CA HALIBUT BOTTOM TRAWL	OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	8	18	VESSEL STRIKE	SAN DIEGO	CA	DEAD	ANIMAL REPORTED WITH PROPELLER WOUNDS UNDERNEATH A DOCK.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	8	18	SCIENTIFIC RESEARCH	SAN DIEGO	CA	DEAD	ANIMAL REMOTELY SEDATED AND DROWNED.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	8	23	LIMITED ENTRY SABLEFISH HOOK AND LINE	OFFSHORE	OR	NSI	DETERRENCE USED TO SCARE OFF 5 SEA LIONS FEEDING ON CATCH. NO INJURIES REPORTED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2017	8	23	LIMITED ENTRY SABLEFISH HOOK AND LINE	OFFSHORE	OR	NSI	DETERRENCE USED TO SCARE OFF 5 SEA LIONS FEEDING ON CATCH. NO INJURIES REPORTED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2017	8	23	LIMITED ENTRY SABLEFISH HOOK AND LINE	OFFSHORE	OR	NSI	DETERRENCE USED TO SCARE OFF 5 SEA LIONS FEEDING ON CATCH. NO INJURIES REPORTED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2017	8	23	LIMITED ENTRY SABLEFISH HOOK AND LINE	OFFSHORE	OR	NSI	DETERRENCE USED TO SCARE OFF 5 SEA LIONS FEEDING ON CATCH. NO INJURIES REPORTED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2017	8	23	LIMITED ENTRY SABLEFISH HOOK AND LINE	OFFSHORE	OR	NSI	DETERRENCE USED TO SCARE OFF 5 SEA LIONS FEEDING ON CATCH. NO INJURIES REPORTED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2017	9	3	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	HEALTHY ANIMAL WITH MONOFILAMENT LINE WRAPPED AROUND NECK, CUTTING INTO ANIMAL APPROXIMATELY 1. INCH DEEP. 3 FEET OF TRAILING LINE. TREATED AT REHAB FACILITY AND RELEASED.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2017	9	8	CATCHER PROCESSOR	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	9	12	MIDWATER TRAWL	LOS ANGELES	CA	SI	FISH HOOK IN STOMACH. EUTHANIZED AT REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	9	17	VESSEL STRIKE	VENTURA	CA	DEAD	CARCASS NEAR ANACAPA ISLAND WITH EVIDENCE OF A PROPELLER STRIKE.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	9	17	CATCHER PROCESSOR	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	9	20	MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	9	20	SHOOTING	LOS ANGELES	CA	SI	LIVE ANIMAL BROUGHT TO REHAB CENTER WHERE RADIOGRAPHIC EVIDENCE INDICATED A BULLET. EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	9	22	HOOK AND LINE FISHERY	SANTA BARBARA	CA	SI	MONOFILAMENT LINE AROUND NECK. ANIMAL DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	9	22	HOOK AND LINE FISHERY	KITSAP	WA	SI	LURE FLASHER COMING OUT OF MOUTH.	SI	P2	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	9	28	UNIDENTIFIED FISHERY INTERACTION	SAN DIEGO	CA	DEAD	0.3 CM WIDE TAN/YELLOW ROPE WRAPPED TWICE AROUND ITS NECK, CREATING A SEVERE CIRCUMFERENTIAL LACERATION EXTENDING INTO MUSCLE LAYER, WITH ASSOCIATED POOL OF BLOOD UNDERNEATH VENTRAL SIDE OF LACERATION	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	9	28	MS CATCHER VESSELS	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	9	29	MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	9	29	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	RECORDS INDICATE ANIMAL DIED ON ITS WAY TO REHAB FACILITY WITH A HOOK AND LINE FISHERY INJURY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	9	29	MS CATCHER VESSELS	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	9	29	MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	10	1	HOOK AND LINE FISHERY	MARIN	CA	SI	DETAILS LACKING, BUT A SEA LION WITH A HOOK AND LINE INJURY WAS TREATED AT A REHAB FACILITY AND	NSI	PSC	0	N	N

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CALIFORNIA SEA LION	U.S.	2017	10	4	MS CATCHER VESSELS MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	10	5	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	10	6	SHOOTING	SAN DIEGO	CA	SI	ANIMAL WITH GUNSHOT WOUND EUTHANIZED AT REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	10	9	MS CATCHER VESSELS MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	10	12	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	10	13	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	10	14	BLUNT FORCE TRAUMA	MONTEREY	CA	SI	ANIMAL DESCRIBED WITH INJURIES CONSISTENT WITH BEING CLUBBED TO DEATH WAS EUTHANIZED IN REHAB FACILITY	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	10	16	MS CATCHER VESSELS MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	10	20	MS CATCHER VESSELS MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	10	23	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	10	23	MS CATCHER VESSELS MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	10	23	MS CATCHER VESSELS MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	10	24	MS CATCHER VESSELS MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	10	24	MS CATCHER VESSELS MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	10	24	MS CATCHER VESSELS MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	10	24	MS CATCHER VESSELS MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	10	24	MS CATCHER VESSELS MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	10	24	MS CATCHER VESSELS MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	10	27	MS CATCHER VESSELS MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	10	28	SHOOTING	KITSAP	WA	DEAD	RADIOGRAPH SHOWED HALF A DOZEN PELLETS IN NECK. C1 AND C2 VERTEBRAE WERE FRACTURED. SEVERAL WERE RETRIEVED ON NECROPSY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	10	31	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	NSI	ANIMAL ENTANGLED IN NET, BROUGHT ON DECK AND ANIMAL EXITED VESSEL UNDER ITS OWN POWER.	NSI	P4	0	N	N
CALIFORNIA SEA LION	U.S.	2017	10	31	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	10	31	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	11	3	UNIDENTIFIED FISHERY INTERACTION	SAN DIEGO	CA	SI	ANIMAL OBSERVED WITH CIRCUMFERENTIAL FISHERY ENTANGLEMENT AROUND NECK. RESCUE ATTEMPT WAS MADE, ANIMAL DARTED DUE TO SIZE AND LOCATION, BUT NOT SEEN AGAIN.	SI	P8A	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	11	5	CATCH SHARES BOTTOM TRAWL	OFFSHORE	OR	NSI	ANIMAL ENTANGLED IN NET, BROUGHT ON DECK AND ANIMAL EXITED VESSEL UNDER ITS OWN POWER.	NSI	P4	0	N	N
CALIFORNIA SEA LION	U.S.	2017	11	6	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	11	6	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	11	6	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	11	6	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	11	6	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	11	6	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y

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CALIFORNIA SEA LION	U.S.	2017	11	6	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	11	6	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	11	6	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	11	8	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	11	8	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	11	9	GILLNET FISHERY	LOS ANGELES	CA	SI	DETAILS LACKING ON AN ANIMAL DESCRIBED AS HAVING A GILLNET INJURY. TREATED AT REHAB FACILITY AND RELEASED.	NSI	P7B	0	Y	N
CALIFORNIA SEA LION	U.S.	2017	11	9	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	11	9	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	11	9	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	11	9	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	11	10	SHOOTING	LANE	OR	DEAD	GUNSHOT WOUNDS ON RIGHT SIDE OF BODY; THROUGH FRONT FLIPPER, ENTRY AND EXIT WOUNDS THROUGH ABDOMEN.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	11	12	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	SI	ANIMAL ENTANGLED IN NET, BROUGHT ON DECK AND ANIMAL EXITED VESSEL UNDER ITS OWN POWER. THE SNOUT WAS CUT OFF; OBVIOUS BULLET HOLE ON VENTRAL BODY BY FOREFLIPPER (POSSIBLE EXIT HOLE);	NSI	P4	0	Y	N
CALIFORNIA SEA LION	U.S.	2017	11	18	SHOOTING	CLATSOP	OR	DEAD	THE SEA LION HAD EXCELLENT BODY CONDITION	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	11	18	SHOOTING	CLATSOP	OR	DEAD	TWO OBVIOUS BULLET HOLES IN THE ABDOMEN. RADIOGRAPH SHOWED BULLET IN NECK. ANIMAL TREATED AND RELEASED FROM REHAB FACILITY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	11	25	SHOOTING	LOS ANGELES	CA	SI	ANIMAL WITH GOOD BODY CONDITION AND OBVIOUS BULLET ENTRY INJURY.	NSI	NA	0	N	N
CALIFORNIA SEA LION	U.S.	2017	11	25	CATCH SHARES BOTTOM TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	11	28	SHOOTING	PACIFIC	WA	DEAD	ANIMAL WITH GOOD BODY CONDITION AND OBVIOUS BULLET ENTRY INJURY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	11	29	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	11	29	RIDGEBACK PRAWN BOTTOM TRAWL	OFFSHORE	CA	NSI	ANIMAL ENTANGLED IN NET, BROUGHT ON DECK AND ANIMAL EXITED VESSEL UNDER ITS OWN POWER.	NSI	P4	0	N	N
CALIFORNIA SEA LION	U.S.	2017	11	29	CATCH SHARES BOTTOM TRAWL	OFFSHORE	OR	NSI	ANIMAL ENTANGLED IN NET, BROUGHT ON DECK AND ANIMAL EXITED VESSEL UNDER ITS OWN POWER.	NSI	P4	0	N	N
CALIFORNIA SEA LION	U.S.	2017	12	10	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	ANIMAL HAD FISH HOOKS IN THE RIGHT SIDE OF MOUTH AND UPPER FRONT FLIPPER. TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2017	12	10	MARINE DEBRIS	PACIFIC	WA	DEAD	PLASTIC BAG FOUND IN STOMACH OF CARCASS THAT HAD BEEN SCAVENGED ON BEACH BY BALD EAGLES.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	12	10	SHOOTING	LINCOLN	OR	NSI	SUBCUTANEOUS BULLET FOUND IN BLUBBER. CAUSE OF DEATH LISTED AS LEPTOSPIROSIS. STRANDING PROGRAM SAID BULLET WAS NOT A FACTOR IN CAUSE OF DEATH.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	12	15	OIL / TAR	SAN MATEO	CA	NSI	ANIMAL WITH OIL / TAR AND A DORSAL PUNCTURE WOUND TREATED AT REHAB FACILITY AND RELEASED. LEAD PELLET (0.177 INCH CALIBER) UNDER SKIN BETWEEN EAR FLAPS. NO ASSOCIATED SKELETAL DAMAGE. ANIMAL DIED IN REHAB.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2017	12	16	SHOOTING	SANTA BARBARA	CA	SI	ANIMAL IN GOOD BODY CONDITION WITH OBVIOUS BULLET WOUND AT MID-ABDOMEN AND POSSIBLY THROUGH HEAD, BASED ON DAMAGE TO SKULL.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	12	18	SHOOTING	CLATSOP	OR	DEAD	ANIMAL ENTANGLED IN NET, BROUGHT ON DECK AND ANIMAL EXITED VESSEL UNDER ITS OWN POWER.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2017	NA	NA	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	NSI	ANIMAL ENTANGLED IN NET, BROUGHT ON DECK AND ANIMAL EXITED VESSEL UNDER ITS OWN POWER.	NSI	P4	0	N	N
CALIFORNIA SEA LION	U.S.	2017	NA	NA	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	NA	NA	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	NA	NA	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	NA	NA	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y

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CALIFORNIA SEA LION	U.S.	2017	NA	NA	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2017	NA	NA	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	1	1	HOOK AND LINE FISHERY	ORANGE	CA	SI	EMACIATED ANIMAL WITH FISH HOOK IN UPPER RIGHT LIP. OUTCOME UNKNOWN.	SI	P5B	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	1	2	CATCH SHARES BOTTOM TRAWL	OFFSHORE	OR	NSI	ANIMAL ENTANGLED IN NET, BROUGHT ON DECK AND ANIMAL EXITED VESSEL UNDER ITS OWN POWER.	NSI	P4	0	N	N
CALIFORNIA SEA LION	U.S.	2018	1	9	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	EMACIATED ANIMAL WITH FISH HOOK IN UPPER RIGHT LIP. OUTCOME UNKNOWN.	SI	P5B	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	1	15	SHOOTING	KING	WA	DEAD	ANIMAL IN EXCELLENT BODY CONDITION WITH PENETRATING WOUND TO HEAD FOUND DEAD ON BEACH. MULTIPLE PELLETS / BULLETS FOUND IN HEAD AND NECK ON RADIOGRAPHS. DUE TO FRESHNESS SUSPECT THAT SEA LION WAS LETHALLY SHOT IN CLOSE PROXIMITY TO QUARTERMASTER HARBOR, LESS THEN 2 DAYS PRIOR TO INITIAL REPORT DATE. RECOVERED OF BULLET #1 WAS SUFFICIENT TO KILL THE SEA LION. OTHER PROJECTILE IS FROM PREVIOUS HUMAN INTERACTIONS AND APPEARS TO HAVE BEEN IN THE SEA LION FOR A WHILE NOT CONSIDERED PART OF THE CAUSE OF DEATH.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	1	20	MARINE DEBRIS	SONOMA	CA	SI	UNDERWEIGHT ANIMAL WITH WHITE PACKING STRAP WRAPPED LOOSELY AROUND NECK, STRANDED AND RELEASED, LATER RESTRAINED. OUTCOME UNKNOWN. UNAUTHORIZED PICKUP OF MALNOURISHED PUP - MATERNAL SEPARATION. REPORTING PARTY DROVE TO MONTEREY BAY AQUARIUM RESEARCH INSTITUTE WITH ANIMAL AND WAITED FOR TMMC TO PICK UP. FINAL OUTCOME UNKNOWN.	SI	P8B	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	1	26	HARASSMENT	MONTEREY	CA	SI	ANIMAL ENTANGLED IN NET, BROUGHT ON DECK AND ANIMAL EXITED VESSEL UNDER ITS OWN POWER.	SI	P14	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	1	30	RIDGEBACK PRAWN BOTTOM TRAWL	OFFSHORE	CA	NSI	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	1	30	OPEN ACCESS CA HALIBUT BOTTOM TRAWL	OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	2	6	SHOOTING	SAN DIEGO	CA	SI	LETHARGIC AND SLIGHTLY THIN. VERY WEAK. BULLET FOUND IN DIAGNOSTIC RADIOGRAPHS, LOCATED NEAR THE SPINE AT THE NECK, DORSALLY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	2	6	OPEN ACCESS CA HALIBUT BOTTOM TRAWL	OFFSHORE	CA	NSI	DETERRENCE USED TO SCARE OFF 5 SEA LIONS FEEDING ON CATCH. NO INJURIES REPORTED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2018	2	7	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	SEA LION WITH FISHING LURE IN THE LOWER RIGHT SIDE OF MOUTH. ATTEMPTED A RESCUE, BUT EVADED THE	SI	P5A	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	2	7	SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	2	7	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	2	7	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	2	8	SHOOTING	PIERCE	WA	DEAD	PENETRATING WOUND IN CHEEK WITH TRACKING HEMORRHAGE. HEMORRHAGE TRACKED TO BULLET IN MUSCLE JUST ANTERIOR TO C4 VERTEBRAE.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	2	13	MARINE DEBRIS	MARIN	CA	SI	MARINE DEBRIS INGESTION; BUBBLE WRAP IN STOMACH AND DOMOIC ACID TOXICITY. ANIMAL ORIGINALLY STRANDED IN SAN LUIS OBISPO ON 1/7/18 AND RELEASED ON 1/26/18 AT CHIMNEY ROCK POINT REYES NATIONAL SEASHORE. ANIMAL WAS RESIGHTED AT DRAKES BEACH ON 2/13 AND RESTRAINED ON 2/17 IN POINT REYES NATIONAL SEASHORE. ANIMAL WAS EUTHANIZED. REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL UNRESPONSIVE THIN AND LETHARGIC ANIMAL FOUND ON BEACH. BULLETS FOUND UPON X-RAY IN HIS LOWER RIGHT JAW.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	2	14	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE		DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	2	17	SHOOTING	SAN DIEGO	CA	DEAD		DEAD	NA	1	N	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
CALIFORNIA SEA LION	U.S.	2018	2	21	MARINE DEBRIS	SAN DIEGO	CA	SI	ANIMAL HAD A RUBBER BAND AROUND ITS MOUTH, SECURING THE MOUTH CLOSED. RUBBER BAND WAS REMOVED ON SITE AND THE ANIMAL WAS RELEASED IMMEDIATELY AFTER.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2018	3	9	SHOOTING	GRAYS HARBOR	WA	DEAD	PENETRATING PUNCTURE WOUNDS AT BOTH SIDES OF CHEST, ABLE TO TRACK AT LEAST ONE WOUND INTO CHEST CAVITY AND THROUGH LUNG. SMALL 1-2CM BULLET (PELLET) RECOVERED FROM INSIDE OF CHEST MALNOURISHED ANIMAL WITH OIL/TAR ON BODY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	3	12	OIL / TAR	LOS ANGELES	CA	SI	OUTCOME UNKNOWN.	SI	P9	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	3	29	HOOK AND LINE FISHERY CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	ORANGE	CA	SI	EMACIATED AND DEHYDRATED ANIMAL WITH MULTIPLE FISH HOOKS. LOCATION OF HOOKS NOT REPORTED. NO ADDITIONAL DETAILS, OUTCOME UNKNOWN. BASED ON ANIMAL'S CONDITION, ASSUMPTION IS THAT HOOKS WERE LOCATED IN HEAD / MOUTH, POSSIBLY INTERFERING WITH FEEDING.	SI	PSA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	4	4	OPEN ACCESS CA HALIBUT BOTTOM TRAWL	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	4	10		OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	4	10	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	4	11	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	4	11	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	4	11	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	4	11	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	4	13	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	FISHING LURE HANGING FROM MOUTH. APPEARS TO HAVE SWALLOWED HOOK. THIN. VERY ACTIVE AND AGGRESSIVE. .22 GAUGE BULLET FOUND ON X-RAY. LOCATED TO THE LEFT OF THE SPINE, MID-BODY, HALF-WAY DOWN THE BODY IN LENGTH. TWO ANIMALS DISTURBED DURING RESCUE. NO DETAILS ON WHETHER FINAL CONDITION WAS DEAD OR RELEASED POST-TREATMENT. ASSUMED TO BE A SERIOUS INJURY BASED	SI	P2	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	4	17	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	4	17	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	4	18	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	4	18	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	4	19	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	4	19	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	4	20	HOOK AND LINE FISHERY	ORANGE	CA	SI	FISH HOOK IN RIGHT SIDE OF MOUTH. ANIMAL EMACIATED AND DEHYDRATED. NO ADDITIONAL DETAILS.	SI	PSA	1	N	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
CALIFORNIA SEA LION	U.S.	2018	4	21	SHOOTING	CLATSOP	OR	DEAD	ANIMAL WITH EXCELLENT BODY CONDITION WITH OBVIOUS HEMORRHAGE PATTERN ON HEAD AND NECK - LIKELY SHOOTING.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	4	24	CATCH SHARES BOTTOM TRAWL	OFFSHORE	OR	NSI	ANIMAL ENTANGLED IN NET, BROUGHT ON DECK AND ANIMAL EXITED VESSEL UNDER ITS OWN POWER.	NSI	P4	0	N	N
CALIFORNIA SEA LION	U.S.	2018	4	24	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	4	24	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	4	24	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	4	24	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	4	25	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	4	28	HOOK AND LINE FISHERY	ORANGE	CA	SI	EMACIATED AND DEHYDRATED ANIMAL WITH FISH HOOK IN MOUTH. OUTCOME UNKNOWN.	SI	PSA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	4	28	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	5	1	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	5	1	AUTHORIZED REMOVAL CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	5	1	AUTHORIZED REMOVAL CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	5	2	AUTHORIZED REMOVAL CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	5	3	AUTHORIZED REMOVAL OPEN ACCESS CA HALIBUT BOTTOM TRAWL	OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	5	3	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	5	3	AUTHORIZED REMOVAL CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	5	8	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	5	8	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	5	8	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	5	8	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	5	8	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
CALIFORNIA SEA LION	U.S.	2018	5	9	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	MALNOURISHED ANIMAL DESCRIBED AS HAVING INTERACTED WITH HOOK AND LINE FISHERY. NO DETAILS ON INJURY TYPE OR SEVERITY, OR OUTCOME. ASSUMING HOOKS WERE IN OR NEAR MOUTH DUE TO CONDITION OF ANIMAL.	SI	P5A	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	5	9	SHOOTING	PACIFIC	WA	DEAD	BULLET RETRIEVED FROM A SEA LION WITH EXCELLENT BODY CONDITION.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	5	9	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	UNDERWEIGHT PUP WITH FISHING HOOK IN NOSE TRANSFERRED TO CAPTIVE DISPLAY FACILITY.	CAPTIVITY	P5B	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	5	9	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL ANIMAL SHOT IN HEAD; BULLET/PELLET FRAGMENTS RETRIEVED.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	5	11	SHOOTING	PACIFIC	WA	DEAD	BULLET RECOVERED FROM A SEA LION WITH EXCELLENT BODY CONDITION.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	5	14	SHOOTING	PACIFIC	WA	DEAD	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL ANIMAL HAD PROPELLER CUTS ON LATERAL MID-BODY AND ONE CUT BEING QUITE DEEP AT THE FOREFLIPPER/FOREARM; THIS DEEP CUT WAS ASSOCIATED WITH BONE DAMAGE, INFECTION, AND NECROSIS AND IS LIKELY THE CUT THAT CONTRIBUTED TO THE SEA LION'S DEATH.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	5	15	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL ANIMAL HAD PROPELLER CUTS ON LATERAL MID-BODY AND ONE CUT BEING QUITE DEEP AT THE FOREFLIPPER/FOREARM; THIS DEEP CUT WAS ASSOCIATED WITH BONE DAMAGE, INFECTION, AND NECROSIS AND IS LIKELY THE CUT THAT CONTRIBUTED TO THE SEA LION'S DEATH.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	5	22	VESSEL STRIKE	CLACKAMAS	OR	DEAD	MALNOURISHED ANIMAL DESCRIBED AS HAVING INTERACTED WITH HOOK AND LINE FISHERY. NO DETAILS ON INJURY TYPE OR SEVERITY, OR OUTCOME. ASSUMING HOOKS WERE IN OR NEAR MOUTH DUE TO CONDITION OF ANIMAL.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	5	23	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	MALNOURISHED ANIMAL DESCRIBED AS HAVING INTERACTED WITH HOOK AND LINE FISHERY. NO DETAILS ON INJURY TYPE OR SEVERITY, OR OUTCOME. ASSUMING HOOKS WERE IN OR NEAR MOUTH DUE TO CONDITION OF ANIMAL.	SI	P5A	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	5	23	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	MALNOURISHED ANIMAL DESCRIBED AS HAVING INTERACTED WITH HOOK AND LINE FISHERY. NO DETAILS ON INJURY TYPE OR SEVERITY, OR OUTCOME. ASSUMING HOOKS WERE IN OR NEAR MOUTH DUE TO CONDITION OF ANIMAL.	SI	P5A	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	5	24	SHOOTING	CLATSOP	OR	DEAD	ANIMAL WITH EXTENSIVE HEMORRHAGE CLEARLY SHOT MID-ABDOMEN. ANIMAL ALSO HAD GILLNET IN THROAT, WHICH WAS PACKED WITH PINKISH REGURGITATION.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	5	24	MARINE DEBRIS	SANTA BARBARA	CA	SI	ANIMAL ENTANGLED IN LINE OF UNKNOWN TYPE, TREATED AT REHAB FACILITY. NO ADDITIONAL DETAILS.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2018	5	25	GILLNET FISHERY	SAN DIEGO	CA	SI	MONOFILAMENT NET AROUND NECK, TIGHTLY CUTTING INTO SKIN. 15 ANIMALS WERE DISTURBED DURING THE RESCUE. NO DETAILS ON OUTCOME.	NSI	P7B	0	Y	N
CALIFORNIA SEA LION	U.S.	2018	5	28	HOOK AND LINE FISHERY	ORANGE	CA	NSI	SUNKEN LEFT EYE, FISH HOOK IN CHEST AND LEFT REAR FLIPPER. NO ADDITIONAL DETAILS ON CONDITION OR OUTCOME.	NSI	P5D	0	N	N
CALIFORNIA SEA LION	U.S.	2018	5	31	HARASSMENT	SAN DIEGO	CA	SI	HUMAN-INDUCED ABANDONMENT. TEAM OBSERVED THE PUBLIC APPROACHING AND TOUCHING THE PUP ON 5/31/18. ABANDONED NEONATAL PUP. DEEMED NON-RELEASEABLE AND TRANSFERRED TO PUBLIC DISPLAY FACILITY.	CAPTIVITY	P14	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	6	1	HOOK AND LINE FISHERY	SAN DIEGO	CA	NSI	FISHING HOOK AND LINE IN LEFT FLIPPER, REMOVED AND RELEASED ON SITE.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2018	6	13	HOOK AND LINE FISHERY	ORANGE	CA	SI	UNDERWEIGHT ANIMAL WITH TREBLE HOOK IN MOUTH. NO ADDITIONAL DETAILS.	SI	P5A	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	6	14	GILLNET FISHERY	SAN LUIS OBISPO	CA	SI	MALNOURISHED ANIMAL FOUND ON BEACH WITH GREEN NETTING AROUND NECK, PATIENT WAS LETHARGIC AND THIN WITH DIAGNOSED DOMOIC ACID TOXICITY. OUTCOME UNKNOWN.	SI	P8A	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	6	18	OPEN ACCESS CA HALIBUT BOTTOM TRAWL	OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y

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CALIFORNIA SEA LION	U.S.	2018	6	21	SHOOTING	SAN DIEGO	CA	SI	EMACIATED, LETHARGIC. SUSPICIOUS WOUND ABOUT THE SIZE OF A HALF DOLLAR FOUND OVER RIGHT SHOULDER. GUNSHOT WOUND. BULLETS FOUND IN SKULL UPON XRAY PRIOR TO NECROPSY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	6	21	SCIENTIFIC RESEARCH	OFFSHORE	CA	DEAD	ANIMAL KILLED IN SCIENTIFIC RESEARCH TRAWL.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	6	25	OPEN ACCESS CA HALIBUT BOTTOM TRAWL	OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	6	27	UNIDENTIFIED FISHERY INTERACTION	SAN LUIS OBISPO	CA	SI	ACTIVE LESION AROUND NECK SUGGESTING ENTANGLEMENT, LETHARGIC AND EMACIATED. NO OTHER DETAILS, OUTCOME UNKNOWN.	SI	P8A	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	7	2	UNIDENTIFIED FISHERY INTERACTION	SANTA CRUZ	CA	SI	SURFERS DISTENTANGLED ANIMAL FROM GREEN NYLON NETTING. ONE SURFER WAS BITTEN. NO DETAILS ON ANIMAL'S CONDITION.	NSI	P7B	0	Y	N
CALIFORNIA SEA LION	U.S.	2018	7	5	VESSEL STRIKE	MONTEREY	CA	DEAD	POSSIBLE BOAT STRIKE - GASH ON BODY ABOVE RIGHT FLIPPER; BLOOD BY FLIPPER.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	7	6	UNIDENTIFIED FISHERY INTERACTION	SAN DIEGO	CA	SI	ANIMAL HAD A GAFF IN HIS FACE. HE WAS POLE SEDATED, JUMPED IN THE WATER, AND SOMETIME DURING THE RESCUE EFFORTS THE GAFF FELL OFF. ANIMAL WAS RELEASED ON SITE.	SI	P9	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	7	11	HOOK AND LINE FISHERY	SAN DIEGO	CA	DEAD	MONOFILAMENT FISHING LINE WAS WRAPPED AROUND THE NECK IN A SINGLE LOOP (NO LONG PIECES TRAILING) WITH AN ASSOCIATED LACERATION WHICH EXTENDS INTO THE MUSCLE LAYER. NO ADDITIONAL DETAILS.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	7	11	UNIDENTIFIED FISHERY INTERACTION	SAN DIEGO	CA	DEAD	UNKNOWN FISHERY. MESSAGE CAME THROUGH TO NOAA WCR NMFS-LONG BEACH FROM PRIVATE CITIZEN. PHOTOS DETERMINED SPECIES, ESTIMATED LENGTH, AND HUMAN INTERACTION (LINE AROUND NECK). PHOTOS ATTACHED TO THIS RECORD.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	7	16	VESSEL STRIKE	VENTURA	CA	SI	SEVERELY INJURED SEA LION WITH EXPOSED SKULL. INIURIES CONSISTENT WITH A VESSEL STRIKE.	SI	P15	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	7	19	GILLNET FISHERY	SAN LUIS OBISPO	CA	SI	PATIENT WAS FOUND WITH MONOFILAMENT NETTING CUTTING INTO NECK, PEOPLE SURROUNDING THE PATIENT ON THE BEACH, AND ANIMAL LETHARGIC. ENTANGLEMENT FILED AWAY AT TMMC. ANIMAL ALSO HAD DOMOIC ACID TOXICITY. NO DETAILS ON OUTCOME.	SI	P8A	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	7	19	VESSEL STRIKE	ORANGE	CA	SI	PROPELLER WOUND TO FACE, SHARK BITE ON RIGHT FLIPPER. NO DETAILS ON OUTCOME.	SI	P15	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	7	26	UNIDENTIFIED FISHERY INTERACTION	SANTA BARBARA	CA	SI	ENTANGLEMENT SCAR AROUND HEAD, LOWER JAW AND TEETH MISSING. EUTHANIZED ON SITE.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	7	27	UNIDENTIFIED FISHERY INTERACTION	VENTURA	CA	SI	ENTANGLED ANIMAL SEEN, ATTEMPTED CAPTURE FAILED BECAUSE ANIMAL SWAM AWAY. AMOUNT AND CONFIGURATION OF ENTANGLING GEAR UNKNOWN.	SI	P6	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	8	1	HOOK AND LINE FISHERY	SAN DIEGO	CA	NSI	FISHING HOOK EMBEDDED IN REAR LEFT FLIPPER. LINE EXTENDING FROM HOOK WRAPPED AROUND NATIONAL MARINE FISHERIES SERVICE TAG ON FRONT LEFT FLIPPER. TAG REMOVED DUE TO ENTANGLEMENT AND HOOK REMOVED. RETAGGED AND RELEASED ON SITE.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2018	8	1	HARASSMENT	MONTEREY	CA	SI	_HARASSMENT_MALNUTRITION, LEPTOSPIROSIS. PATIENT FOUND LETHARGIC, UNRESPONSIVE, AND IN A BAD LOCATION. REPORTED THAT THE PATIENT WAS SHOT BY A PAINTBALL GUN AND A PASSERBY WAS FLICKING CIGARETTES AT SCAR AROUND NECK FROM PREVIOUS ENTANGLEMENT.	SI	P9	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	8	2	GILLNET FISHERY	SAN FRANCISCO	CA	DEAD	NO MONOFILAMENT PRESENT WHEN SCAR WAS EMACIATED AND LETHARGIC ANIMAL FOUND WITH HOOK IN THE MOUTH AND IN THE HIND FLIPPER. NO ADDITIONAL DETAILS.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	8	2	HOOK AND LINE FISHERY	SANTA CRUZ	CA	SI	PATIENT WAS FOUND WITH ENTANGLEMENT AROUND NECK, POTENTIALLY A PACKING STRAP/ ZIP TIE. PATIENT WAS NOTED TO BE LETHARGIC AND DRINKING FROM TIDEPOOLS WITH PEOPLE AND DOGS PRESENT.	SI	P5A	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	8	5	MARINE DEBRIS	SAN LUIS OBISPO	CA	SI		SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	8	6	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
CALIFORNIA SEA LION	U.S.	2018	8	9	LIMITED ENTRY SABLEFISH HOOK AND LINE	OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	8	10	UNIDENTIFIED FISHERY INTERACTION	SANTA CRUZ	CA	SI	MALNOURISHED ANIMAL FOUND WITH LARGE ENTANGLEMENT SCAR AROUND NECK. NO ADDITIONAL DETAILS.	SI	P8A	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	8	11	UNIDENTIFIED FISHERY INTERACTION	SAN LUIS OBISPO	CA	SI	MALNOURISHED ANIMAL WITH ENTANGLEMENT WOUND ON NECK. NO FURTHER DETAILS.	SI	P8A	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	8	14	SHOOTING	MENDOCINO	CA	DEAD	BULLET HOLE IN SIDE OF ANIMAL AND ASSOCIATED INJURIES TO INTERNAL ORGANS.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	8	15	SHOOTING	SAN DIEGO	CA	SI	COMATOSE, FOAMING AT THE MOUTH. GOOD WEIGHT AND BODY CONDITION. REPORTED BY LIFE GUARDS THAT SHE CAME ONTO THE BEACH AT 7PM ON 8/14/2018. RESCUED AT 9AM ON 8/15/2018. BULLET FOUND IN SKULL.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	8	15	OPEN ACCESS CA HALIBUT BOTTOM TRAWL	OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	8	18	HOOK AND LINE FISHERY	SANTA BARBARA	CA	SI	SEA LION ENTANGLED IN LINE SEDATED AND DISENTANGLED. NO FURTHER DETAILS.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2018	8	21	LIMITED ENTRY SABLEFISH HOOK AND LINE	OFFSHORE	OR	NSI	DETERRENCE USED TO SCARE OFF 5 SEA LIONS FEEDING ON CATCH. NO INJURIES REPORTED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2018	8	24	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	MONOFILAMENT LINE WRAPPED AROUND NECK. LINE REMOVED AND ANIMAL RELEASED ON SITE.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2018	8	24	MARINE DEBRIS LIMITED ENTRY SABLEFISH HOOK AND LINE	SAN DIEGO	CA	SI	THIN ROPE EMBEDDED AROUND NECK. ROPE WAS REMOVED AND ANIMAL RELEASED ON SITE. GOOD BODY CONDITION.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2018	8	24	LIMITED ENTRY SABLEFISH HOOK AND LINE	OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	8	31	SHOOTING	LANE	OR	DEAD	HOLE IN RIGHT ABDOMEN APPEARS TO BE A BULLET EXIT WOUND; END OF RIGHT FRONT FLIPPER APPEARS TORN AS IF SHOT OFF; TOP OF HEAD "SCALPED"; SKULL EXPOSED TO BARE BONE.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	9	4	SHOOTING	LOS ANGELES	CA	NSI	SHOT WITH PAINT BALL GUN. NO DETAILS ON ANIMAL CONDITION.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2018	9	8	HOOK AND LINE FISHERY	SANTA CRUZ	CA	SI	PATIENT NOTED TO HAVE FISHING NET HANGING OUT OF MOUTH WITH A HOOK EMBEDDED IN THE MOUTH. THE PATIENT WAS ALSO LETHARGIC, EMACIATED, AND UNRESPONSIVE AT THE TIME OF RESCUE. OUTCOME UNKNOWN.	SI	P5A	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	9	10	GILLNET FISHERY	SAN MATEO	CA	DEAD	ENTANGLED AROUND THE NECK. SKULL, VIBRISSAE, BACULUM AND ENTANGLEMENT COLLECTED FOR CAS ARCHIVES.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	9	11	GILLNET FISHERY	SAN LUIS OBISPO	CA	SI	PATIENT FOUND WITH MONOFILAMENT NETTING AROUND NECK CUTTING INTO THE SKIN. BODY CONDITION WAS NOTED TO BE GOOD AND THE PATIENT WAS ALERT AND ACTIVE. PEOPLE WERE HARASSING THE PATIENT ON THE BEACH. OUTCOME UNKNOWN.	SI	P8A	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	9	14	GILLNET FISHERY	VENTURA	CA	SI	ON BOAT DOCK IN CHANNEL ISLANDS HARBOR WITH GILLNET AROUND NECK. SEDATED REMOTELY, REMOVED GILLNET AND RELEASED IMMEDIATELY FOLLOWING DISENTANGLEMENT.	NSI	P7B	0	Y	N
CALIFORNIA SEA LION	U.S.	2018	9	15	HOOK AND LINE FISHERY	SANTA CRUZ	CA	SI	MANOURISHED PATIENT FOUND WITH FISH HOOK AND CLEAR LINE COMING OUT OF MOUTH. OUTCOME UNKNOWN.	SI	P5A	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	9	25	SHOOTING	KING	WA	DEAD	RADIOGRAPH CONFIRMED SEA LION WAS SHOT. THREE PROJECTILES RECOVERED.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	10	1	HOOK AND LINE FISHERY	MONTEREY	CA	SI	ANIMAL FOUND WITH GREEN MONOFILAMENT NETTING EMBEDDED IN TISSUE AROUND NECK. OUTCOME UNKNOWN.	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	10	3	CATCH SHARES HOOK AND LINE	OFFSHORE	OR	SI	ANIMAL BROKE LINE AND HAD TRAILING GEAR OF UNKNOWN LENGTH.	SI	P6	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	10	4	MS CATCHER VESSELS MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	10	7	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y

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CALIFORNIA SEA LION	U.S.	2018	10	8	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	MALNOURISHED ANIMAL WITH HOOK AND LINE FISHERY INTERACTION TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P5C	0	N	N
CALIFORNIA SEA LION	U.S.	2018	10	12	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	LETHARGIC ANIMAL HAD LARGE GAFF HOOK IN RIGHT UPPER LIP. GAFF WAS REMOVED. WAS ABLE TO USE REAR FLIPPERS. RELEASED ON SITE. OUTCOME UNKNOWN.	SI	P9	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	10	12	CATCH SHARES HOOK AND LINE	OFFSHORE	OR	NSI	DETERRENCE USED TO SCARE OFF 5 SEA LIONS FEEDING ON CATCH. NO INJURIES REPORTED.	NSI	P9	0	N	N
CALIFORNIA SEA LION	U.S.	2018	10	15	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	ANIMAL WITH LEFT FRONT FLIPPER FRACTURE DESCRIBED AS HAVING INTERACTED WITH HOOK AND LINE FISHERY. NO FURTHER DETAILS.	SI	P10	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	10	16	MARINE DEBRIS	SAN MATEO	CA	SI	PATIENT FOUND WITH A BLACK, BELT-LIKE ENTANGLEMENT AROUND THE LOWER NECK/ CHEST REGION. ENTANGLEMENT WAS SEVERELY CUTTING INTO THE PATIENT. ANIMAL WAS EUTHANIZED.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	10	19	MS CATCHER VESSELS MIDWATER TRAWL	OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	10	25	AUTHORIZED REMOVAL	COLUMBIA RIVER	WA	ALIVE	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER MMPA SECTION 120. ANIMAL KILLED BY LETHAL SWIM GOGGLES STUCK AROUND NECK OF ANIMAL.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	10	26	MARINE DEBRIS	SAN DIEGO	CA	SI	GOGGLES REMOVED AND ANIMAL RELEASED ON SITE. NO DETAILS ON SEVERITY OF INJURY.	NSI	P7B	0	N	N
CALIFORNIA SEA LION	U.S.	2018	10	27	HOOK AND LINE FISHERY CATCHER PROCESSOR	MONTEREY	CA	DEAD	PATIENT FOUND WITH A NECK ENTANGLEMENT SCAR AND FISH HOOK IN SHOULDER, BUT FRESHLY DEAD AT THE TIME OF ARRIVAL.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	10	27	MIDWATER TRAWL CATCHER PROCESSOR	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	10	29	MIDWATER TRAWL CATCHER PROCESSOR	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	10	29	MIDWATER TRAWL CATCHER PROCESSOR	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	10	31	UNIDENTIFIED FISHERY INTERACTION	MENDOCINO	CA	SI	PATIENT FOUND WITH AN BLACK FISHING LINE ENTANGLED AROUND NECK. ANIMAL WAS ALSO LETHARGIC AND MODERATELY UNDERWEIGHT WITH CONFOUNDING LEPTOSPIROSIS AND SEPTICEMIA.	SI	P8A	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	10	31	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	11	5	CATCH SHARES BOTTOM TRAWL	OFFSHORE	OR	NSI	ANIMAL ENTANGLED IN NET, BROUGHT ON DECK AND ANIMAL EXITED VESSEL UNDER ITS OWN POWER.	NSI	P4	0	N	N
CALIFORNIA SEA LION	U.S.	2018	11	7	SHOOTING	SANTA CRUZ	CA	DEAD	ANIMAL WITH MULTIPLE GUNSHOT PELLETS IN HEAD FOUND DURING NECROPSY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	11	7	SHOOTING	KING	WA	DEAD	CARCASS HAD PUNCTURE WOUNDS AND GASH ON HEAD. STOMACH WAS FULL. X-RAY REVEALED PROJECTILES. VISUAL EXAMINATION SHOWED THE HEAD HAD BEEN CUT OFF; NO OTHER INJURIES SEEN. EXAMINED BY CASEY MCLEAN, ROBIN LINDSEY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	11	8	GILLNET FISHERY	KING	WA	DEAD	TRACKING WOUNDS WERE IDENTIFIED FROM THE INSIDE OUT FROM THE ABDOMINAL CAVITY AND ONE FROM THE THORACIC CAVITY. ABDOMINAL CAVITY FULL OF FREE BLOOD. ENTRY OF SHOT THROUGH RIGHT SIDE THORACIC CAVITY. TRACKING WOUND BETWEEN RIBS 5 AND 6; RECOVERED SHOT INSIDE PERICARDIAL SAC. CLOTTED BLOOD. TRACKING WOUND INTO ABDOMINAL CAVITY. #1 SHOT RECOVERED FROM PERICARDIAL SAC. #2 RECOVERED FROM RIGHT C1 VERTEBRAE MUSCLE WITH TRACKING HEMORRHAGE. #3 FOUND IN BLUBBER ON DORSAL LEFT SIDE NECK. JUSTIFICATION: RECOVERED SHOT PELLETS FROM PERICARDIUM, AND AROUND VERTEBRA C1-3, EVIDENCE FOR TRACKING INTO ABDOMINAL CAVITY AS WELL. SIGNIFICANT AMOUNT BLOOD AND BLOT IN ABDOMEN AND THORACIC CAVITY. THIS IS THE APPARENT CAUSE THE DEATH OF THIS SEA	DEAD	NA	1	N	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

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CALIFORNIA SEA LION	U.S.	2018	11	13	SHOOTING	KING	WA	DEAD	3/4 INCH DIAMETER PUNCTURE SEEN ON BACK AND NUMEROUS SMALL PUNCTURE WOUNDS ON LEFT SIDE AND FORE FLIPPER. SHOT PELLETS RECOVERED FROM BODY ON NECROPSY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	11	14	SHOOTING	KITSAP	WA	DEAD	X-RAY SHOWED THREE TYPES OF PROJECTILE IN HEAD AND NECK. SMALL SHOT AND ON PROJECTILE FROM OLD INJURIES. NOT ABLE TO RECOVER PROJECTILE NEAR C2 VERTEBRAE. PROJECTILE RECOVERED FROM LEFT LUNG. MULTIPLE PERFORATIONS IN COLON AND SMALL INTESTINE- 7 VISUALIZED. BASED ON THE TRACKING HOLES INTO THORAX AND LOWER ABDOMEN AS WELL AS THE EXTENSIVE HEMORRHAGE INTO BOTH CAVITY, THE CAUSE OF DEATH IS APPARENT.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	11	14	SHOOTING	KING	WA	DEAD	SKULL AND NECK RADIOGRAPH CONFIRM THREE DIFFERENT TYPES OF PROJECTILES IN HEAD AND NECK. ANIMAL ENTANGLED IN NET, BROUGHT ON DECK AND ANIMAL EXITED VESSEL UNDER ITS OWN POWER.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	11	16	CATCH SHARES BOTTOM TRAWL	OFFSHORE	OR	NSI	ANIMAL ENTANGLED IN NET, BROUGHT ON DECK AND ANIMAL EXITED VESSEL UNDER ITS OWN POWER.	NSI	P4	0	N	N
CALIFORNIA SEA LION	U.S.	2018	11	16	CATCH SHARES BOTTOM TRAWL	OFFSHORE	OR	NSI	BULLETS WERE FOUND ON X-RAY, ONE BULLET AT THE BASE OF THE SKULL AND ONE BULLET ABOVE THE	NSI	P4	0	N	N
CALIFORNIA SEA LION	U.S.	2018	11	17	SHOOTING	SAN DIEGO	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	11	18	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	11	20	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
CALIFORNIA SEA LION	U.S.	2018	11	22	SHOOTING	KING	WA	DEAD	CARCASS FOUND FLOATING AND SECURED TO DOCK WITH ROPE. DUE TO MULTIPLE TRACKING WOUNDS BASED ON EXTERNAL EXAM, CAUSE OF DEATH ATTRIBUTED TO SHOOTING.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	11	22	SHOOTING	SAN DIEGO	CA	DEAD	TWO BULLETS FOUND ON XRAY, ONE ON THE RIGHT SIDE OF THE NECK/SHOULDER AND ONE ON THE RIGHT SIDE OF THE MIDBODY.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	11	24	SHOOTING	KING	WA	DEAD	RETRIEVED SHOT PELLET OUT OF C2 VERTEBRAE WHICH WAS FRACTURED AND THERE WAS A TRACKING HEMORRHAGE AROUND LOCATION. THIS APPEAR TO BE SIGNAFICANT TO CAUSE INJURY AND POSSIBLY CAUSE OF BULLET WOUNDS. SHOT SIX TIMES IN THE RIGHT SIDE AROUND THE SHOULDER AND RIBS AREA. LEFT SIDE BRAND V370. NO TAGS PRESENT IDENTIFIED AS ANIMAL THAT WAS BRANDED ON SAN MIGUEL ISLAND AS A PUP IN	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	11	26	SHOOTING	MARIN	CA	DEAD	TRACKING WOUND FROM SMALL ROUND HOLE IN BACK LEFT SKULL INTO LEFT FRONTAL LOBE. PELLET FOUND IN BRAIN TISSUE WITH SURROUNDING HEMORRHAGE. GOOD BODY CONDITION, STOMACH FULL OF FOOD. CAUSE OF MORTALITY DUE TO GUNSHOT BUT DEATH WAS NOT IMMEDIATE--IT SURVIVED LONG ENOUGH TO INHALE A LARGE AMOUNT OF SAND, GRAVEL AND ROCKS. RADIOGRAPHS CONFIRMED ANIMAL WAS SHOT. NO FURTHER DETAILS.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	11	28	SHOOTING	MASON	WA	DEAD	RADIOGRAPH OF HEAD CONFIRMED ANIMAL WAS SHOT. NO ADDITIONAL DETAILS.	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	12	4	SHOOTING	KING	WA	DEAD	SWIMMING GOGGLES ENTANGLED AROUND HEAD.	DEAD	SI	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	12	8	MARINE DEBRIS	SAN DIEGO	CA	SI	REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER	SI	P8A	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	12	12	AUTHORIZED REMOVAL	WILLIAMETTE FALLS	OR	ALIVE	MMPA SECTION 120. ANIMAL KILLED BY LETHAL REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	12	12	AUTHORIZED REMOVAL	WILLIAMETTE FALLS	OR	ALIVE	MMPA SECTION 120. ANIMAL KILLED BY LETHAL REMOVAL OF ANIMAL PREYING ON ENDANGERED SALMON IN COLUMBIA RIVER. AUTHORIZED UNDER	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	12	20	AUTHORIZED REMOVAL	WILLIAMETTE FALLS	OR	ALIVE	MMPA SECTION 120. ANIMAL KILLED BY LETHAL	DEAD	NA	1	N	Y
CALIFORNIA SEA LION	U.S.	2018	NA	NA	MIDWATER TRAWL ROCKFISH	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y

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CALIFORNIA SEA LION	U.S.	2018	NA	NA	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	NSI	ANIMAL ENTANGLED IN NET, BROUGHT ON DECK AND ANIMAL EXITED VESSEL UNDER ITS OWN POWER.	NSI	P4	0	N	N
COMMON DOLPHIN, LONG-BEAKED	CALIFORNIA	2014	6	1	UNIDENTIFIED NET FISHERY	SAN DIEGO	CA	DEAD	SEVERAL IMPRESSIONS AND LACERATIONS INDICATIVE OF ENTANGLEMENT NOTED DURING NECROPSY. ALSO EVIDENCE OF PAST ENTANGLEMENT (HEALED SCARS).	DEAD	NA	1	Y	Y
COMMON DOLPHIN, LONG-BEAKED	CALIFORNIA	2014	6	11	UNIDENTIFIED NET FISHERY	SAN DIEGO	CA	DEAD	FLUKES SEVERED, CONSISTENT WITH OTHER CASES OF NET ENTANGLED ANIMALS THAT HAVE BODY PARTS CUT OFF TO FACILITATE REMOVAL FROM A NET	DEAD	NA	1	Y	Y
COMMON DOLPHIN, LONG-BEAKED	CALIFORNIA	2014	7	1	UNIDENTIFIED NET FISHERY	VENTURA	CA	DEAD	FRESHLY DEAD DOLPHIN WITH SEVERED FLUKES AND NET/ROPE MARKS.	DEAD	NA	1	Y	Y
COMMON DOLPHIN, LONG-BEAKED	CALIFORNIA	2014	9	11	UNIDENTIFIED FISHERY INTERACTION	SAN LUIS OBISPO	CA	DEAD	FRESH DEAD, CAUSE OF DEATH LISTED AS DECOMPRESSION OR 'THE BENDS', CONSISTENT WITH DROWNING. NO EXTERNAL INJURIES.	DEAD	NA	1	Y	Y
COMMON DOLPHIN, LONG-BEAKED	CALIFORNIA	2015	3	14	HOOK AND LINE FISHERY	SAN DIEGO	CA	DEAD	ANIMAL WAS EMACIATED WITH HOOK LODGED IN LEFT GAPE ATTACHED TO A RED MULTIFILAMENT LINE WITH LEAD WEIGHT. MULTIFILAMENT LINE WRAPPED THROUGH AXILLARY REGION OF BOTH PECTORAL FINS, AROUND DORSAL FIN, PEDUNCLE AND THROUGH THE MOUTH.	DEAD	NA	1	N	Y
COMMON DOLPHIN, LONG-BEAKED	CALIFORNIA	2015	7	12	UNIDENTIFIED FISHERY INTERACTION	VENTURA	CA	DEAD	RIGHT FLUKE CLEANLY CUT OFF.	DEAD	NA	1	Y	Y
COMMON DOLPHIN, LONG-BEAKED	CALIFORNIA	2015	7	13	UNIDENTIFIED FISHERY INTERACTION	VENTURA	CA	DEAD	PEDUNCLE AND FLUKES CLEANLY CUT OFF.	DEAD	NA	1	Y	Y
COMMON DOLPHIN, LONG-BEAKED	CALIFORNIA	2015	8	8	GILLNET FISHERY	SAN DIEGO	CA	DEAD	MULTIPLE LINEAR IMPRESSIONS ACROSS ENTIRE BODY INDICATES EXTENSIVE ENTANGLEMENT. DORSAL FIN AND FLUKES HAD BEEN REMOVED.	DEAD	NA	1	Y	Y
COMMON DOLPHIN, LONG-BEAKED	CALIFORNIA	2015	8	24	UNIDENTIFIED FISHERY INTERACTION	SAN DIEGO	CA	DEAD	FLUKES ARE ABSENT, IMPRESSIONS/NICKS ON DORSAL PEDUNCLE, AND LINEAR IMPRESSIONS DORSALLY AT AXILLA SUGGEST FISHERY INTERACTION. SPECIES ID PER	DEAD	NA	1	Y	Y
COMMON DOLPHIN, LONG-BEAKED	CA-OR-WA	2015	11	27	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
COMMON DOLPHIN, LONG-BEAKED	CA-OR-WA	2016	2	16	GILLNET FISHERY	SAN DIEGO	CA	DEAD	DEEP LACERATIONS WERE FOUND ON RIGHT AND LEFT PECTORAL FIN INSERTIONS. SUPERFICIAL LACERATIONS (EXPOSING BLUBBER BUT NOT MUSCLE) AND IMPRESSIONS WERE FOUND CIRCUMVENTING THE HEAD AND CRISS-CROSS ON THE VENTRUM BETWEEN THE PECTORAL FINS. ADDITIONAL IMPRESSIONS WERE FOUND ANTERIOR TO THE DORSAL FIN CIRCUMVENTING CAUDALLY. NO GEAR WAS FOUND ON THE ANIMAL. MARKS ON ANIMAL ARE CONSISTENT WITH GILLNET NECROPSY REVEALED DEEP PENETRATING CHRONIC ENTANGLEMENT AROUND THE FLUKE, THE TISSUE WAS NECROTIC. IN ADDITION, THERE WERE DEEP CHRONIC LACERATIONS THROUGH THE MOUTH. SOME LINE WAS RECOVERED FROM WITHIN THE FLUKE TISSUE, NO GEAR WAS FOUND IN THE MOUTH. ANIMAL WAS INITIALLY FOUND ALIVE BY SWIMMERS AND EXPIRED PRIOR TO ARRIVAL OF SEA WORLD PERSONNEL.	DEAD	NA	1	Y	Y
COMMON DOLPHIN, LONG-BEAKED	CA-OR-WA	2016	2	17	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	DOLPHIN IN GOOD CONDITION - NO OBVIOUS SIGNS OF TRAUMA OTHER THAN A TEAR ON THE RIGHT FLUPPER, POSSIBLY FROM LINE AND MARKS ON ROSTRUM/MELON THAT APPEAR TO BE FROM A PRIOR OR RECENT ENTANGLEMENT.	DEAD	NA	1	Y	Y
COMMON DOLPHIN, LONG-BEAKED	CA-OR-WA	2016	7	2	UNIDENTIFIED FISHERY INTERACTION	VENTURA	CA	SI	LINEAR IMPRESSIONS ON HEAD, BODY, VENTRUM SLICED OPEN.	DEAD	NA	1	Y	Y
COMMON DOLPHIN, LONG-BEAKED	CA-OR-WA	2016	12	17	GILLNET FISHERY	SAN DIEGO	CA	DEAD	FLUKE CLEANLY AMPUTATED AT PEDUNCLE	DEAD	NA	1	Y	Y
COMMON DOLPHIN, LONG-BEAKED	CA-OR-WA	2017	1	6	GILLNET FISHERY	SANTA BARBARA	CA	DEAD	LINE ENTANGLEMENT SCAR ON ROSTRUM AND CRANIAL TRAUMA FROM UNKNOWN SOURCE.	DEAD	NA	1	Y	Y
COMMON DOLPHIN, LONG-BEAKED	CA-OR-WA	2017	4	19	UNIDENTIFIED FISHERY INTERACTION	SAN DIEGO	CA	DEAD	MULTIPLE LINEAR IMPRESSIONS ON PECTORAL FINS, ROSTRUM, DORSAL FIN, VENTRUM, AND PEDUNCLE. TAIL STOCK SEVERED, FLUKES MISSING.	DEAD	NA	1	Y	Y
COMMON DOLPHIN, LONG-BEAKED	CA-OR-WA	2017	6	6	GILLNET FISHERY	SAN DIEGO	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
COMMON DOLPHIN, LONG-BEAKED	CA-OR-WA	2017	6	9	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
COMMON DOLPHIN, LONG-BEAKED	CA-OR-WA	2017	6	16	GILLNET FISHERY	ORANGE	CA	DEAD	FLUKES CUT OFF.	DEAD	NA	1	Y	Y
COMMON DOLPHIN, LONG-BEAKED	CA-OR-WA	2017	8	2	CA SPOT PRAWN TRAP FISHERY	VENTURA	CA	DEAD	ANIMAL OBSERVED DEAD BY CDFW WARDEN WITH FLOAT AND LINE WRAPPED AROUND IT. GEAR POSITIVELY-IDENTIFIED THROUGH LICENSE NUMBER ON GEAR. ANIMAL WAS IDENTIFIED AS GENERIC 'COMMON DOLPHIN', BUT THE LONG-BEAKED SPECIES IS THE PREDOMINANT SPECIES IN THIS AREA. ANIMAL DISENTANGLED FROM GEAR AND SET ADRIFT.	DEAD	NA	1	Y	Y
COMMON DOLPHIN, LONG-BEAKED	CA-OR-WA	2017	11	26	UNIDENTIFIED FISHERY INTERACTION	LOS ANGELES	CA	DEAD	GAFF HOOK USED TO REMOVE ANIMAL FROM FISHING GEAR. ANIMAL HAD STOMACH FULL OF MARKET SQUID.	DEAD	NA	1	Y	Y
COMMON DOLPHIN, LONG-BEAKED	CA-OR-WA	2018	3	2	GILLNET FISHERY	SAN DIEGO	CA	DEAD	ONE OF THREE DOLPHINS FOUND FLOATING 3 MILES OFFSHORE BY U.S. BORDER PATROL. ANIMALS HAD LINEAR MARKS CONSISTENT WITH A MULTIFILIAMENT GILLNET ENTANGLEMENT. MESH SIZE WAS APPROXIMATELY 8 CM UNSTRETCHED, POSSIBLY SMALL-MESH DRIFT GILLNET ORIGIN.	DEAD	NA	1	Y	Y
COMMON DOLPHIN, LONG-BEAKED	CA-OR-WA	2018	3	2	GILLNET FISHERY	SAN DIEGO	CA	DEAD	ONE OF THREE DOLPHINS FOUND FLOATING 3 MILES OFFSHORE BY U.S. BORDER PATROL. ANIMALS HAD LINEAR MARKS CONSISTENT WITH A MULTIFILIAMENT GILLNET ENTANGLEMENT. MESH SIZE WAS APPROXIMATELY 8 CM UNSTRETCHED, POSSIBLY SMALL-MESH DRIFT GILLNET ORIGIN.	DEAD	NA	1	Y	Y
COMMON DOLPHIN, LONG-BEAKED	CA-OR-WA	2018	3	2	GILLNET FISHERY	SAN DIEGO	CA	DEAD	ONE OF THREE DOLPHINS FOUND FLOATING 3 MILES OFFSHORE BY U.S. BORDER PATROL. ANIMALS HAD LINEAR MARKS CONSISTENT WITH A MULTIFILIAMENT GILLNET ENTANGLEMENT. MESH SIZE WAS APPROXIMATELY 8 CM UNSTRETCHED, POSSIBLY SMALL-MESH DRIFT GILLNET ORIGIN.	DEAD	NA	1	Y	Y
COMMON DOLPHIN, LONG-BEAKED	CALIFORNIA	2018	3	3	GILLNET FISHERY	SAN DIEGO	CA	DEAD	ANIMAL BEACH-STRANDED IN SAME AREA AS 3-2-2018 CASES, WITH SIMILAR LINEAR NET MARK IMPRESSIONS.	DEAD	NA	1	Y	Y
COMMON DOLPHIN, LONG-BEAKED	CALIFORNIA	2018	3	8	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
COMMON DOLPHIN, LONG-BEAKED	CALIFORNIA	2018	8	8	GILLNET FISHERY	SAN DIEGO	CA	DEAD	FLUKES CUT OFF.	DEAD	NA	1	Y	Y
COMMON DOLPHIN, LONG-BEAKED	CALIFORNIA	2018	11	5	UNIDENTIFIED FISHERY INTERACTION	PACIFIC	WA	DEAD	ROSTRUM AND MANDIBLES BROKEN; NO SIGNIFICANT FINDINGS ON HISTOPATHOLOGY. THE ANIMAL HAD EXCELLENT BODY CONDITION. LOOKS AS THOUGH ANIMAL EXSANGUINATED; INDENTATIONS ON RIGHT FLIPPER AND ALONG PEDUNCLE; NO SIGNIFICANT PATHOLOGY.	DEAD	NA	1	Y	Y
COMMON DOLPHIN, SHORT-BEAKED	CA-OR-WA	2014	1	14	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
COMMON DOLPHIN, SHORT-BEAKED	CA-OR-WA	2014	1	15	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
COMMON DOLPHIN, SHORT-BEAKED	CA-OR-WA	2014	1	17	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
COMMON DOLPHIN, SHORT-BEAKED	CALIFORNIA	2014	10	23	GILLNET FISHERY	SAN DIEGO	CA	DEAD	FRESHLY DEAD ANIMAL WITH GAFF MARKS, FLUKES AND DORSAL FIN SEVERED.	DEAD	NA	1	Y	Y
COMMON DOLPHIN, SHORT-BEAKED	CA-OR-WA	2014	12	6	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM, ONE OF TWO ANIMALS IN SAME SET	DEAD	NA	1	Y	Y
COMMON DOLPHIN, SHORT-BEAKED	CA-OR-WA	2014	12	6	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM, ONE OF TWO ANIMALS IN SAME SET	DEAD	NA	1	Y	Y
COMMON DOLPHIN, SHORT-BEAKED	CA-OR-WA	2014	12	17	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
COMMON DOLPHIN, SHORT-BEAKED	CA-OR-WA	2016	10	25	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
COMMON DOLPHIN, SHORT-BEAKED	CA-OR-WA	2016	10	26	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
COMMON DOLPHIN, SHORT-BEAKED	CA-OR-WA	2016	12	5	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
COMMON DOLPHIN, SHORT-BEAKED	CA-OR-WA	2016	12	22	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y

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COMMON DOLPHIN, SHORT-BEAKED	CA-OR-WA	2017	1	6	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
COMMON DOLPHIN, SHORT-BEAKED	CA-OR-WA	2017	1	7	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
COMMON DOLPHIN, SHORT-BEAKED	CA-OR-WA	2017	1	7	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
COMMON DOLPHIN, SHORT-BEAKED	CA-OR-WA	2017	1	7	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
COMMON DOLPHIN, SHORT-BEAKED	CA-OR-WA	2017	1	8	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
COMMON DOLPHIN, SHORT-BEAKED	CA-OR-WA	2017	1	8	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
COMMON DOLPHIN, SHORT-BEAKED	CA-OR-WA	2017	3	7	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
COMMON DOLPHIN, SHORT-BEAKED	CA-OR-WA	2017	5	4	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
COMMON DOLPHIN, SHORT-BEAKED	CA-OR-WA	2017	11	10	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
COMMON DOLPHIN, SHORT-BEAKED	CA-OR-WA	2017	11	12	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
COMMON DOLPHIN, SHORT-BEAKED	CA-OR-WA	2017	11	14	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
COMMON DOLPHIN, SHORT-BEAKED	CA-OR-WA	2017	11	14	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
COMMON DOLPHIN, SHORT-BEAKED	CA-OR-WA	2017	11	19	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
COMMON DOLPHIN, SHORT-BEAKED	CA-OR-WA	2017	12	1	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
COMMON DOLPHIN, SHORT-BEAKED	CA-OR-WA	2017	12	1	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
COMMON DOLPHIN, SHORT-BEAKED	CA-OR-WA	2017	12	1	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
COMMON DOLPHIN, SHORT-BEAKED	CA-OR-WA	2017	12	1	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
COMMON DOLPHIN, SHORT-BEAKED	CA-OR-WA	2018	1	13	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
COMMON DOLPHIN, SHORT-BEAKED	NA	2018	6	5	GILLNET FISHERY	VENTURA	CA	DEAD	TAIL APPEARED TO BE CUT OFF, SUSPECTED GILLNET INTERACTION.	DEAD	NA	1	Y	Y
COMMON DOLPHIN, SHORT-BEAKED	CA-OR-WA	2018	12	9	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
COMMON DOLPHIN, UNIDENTIFIED	NA	2018	1	13	MARINE DEBRIS	ORANGE	CA	SI	FISHERMEN DISENTANGLED A LETHARGIC DOLPHIN THAT HAD LINE WRAPPED AROUND AND CUTTING INTO THE FLUKES. CONDITION OF ANIMAL INDICATES A SERIOUS INJURY. ENTANGLING MATERIAL UNKNOWN.	SI	S7B	1	N	Y
DALL'S PORPOISE	CA-OR-WA	2014	11	10	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
DALL'S PORPOISE	CA-OR-WA	2016	6	19	GILLNET FISHERY	SAN JUAN	WA	DEAD	LACERATION ON FLUKE; LEFT SIDE OF TAIL HAS LINE INDENTATION FROM A NET ENTANGLEMENT; RIGHT SIDE OF FLUKE NOTCH HAS LINE FROM A NET ENTANGLEMENT. CALL RECEIVED FROM NAVAL BASE VENTURA COUNTY-PORT HUENEME PORT OPERATIONS OF A DEAD WHALE FLOATING IN HARBOR NEXT TO SHIP. CIMWI VOLUNTEER WENT TO SITE TO CONFIRM. TOOK PICTURES. NOTIFIED STRANDING COORDINATOR. NMFS, BASE BIOLOGIST, CIMWI DIRECTOR, AND CIRCU. 7/30/14 ARRANGEMENTS BEING MADE BETWEEN NMFS AND NAVY TO HAVE WHALE TOWED TO A SITE FOR NECROPSY. NECROPSY PERFORMED BY MEMBERS OF NMFS, CIMWI, CIRCU, ETC. VESSEL ASSIST TOWED REMAINS OUT TO SEA. EXTERNAL AND INTERNAL EXAM AND	DEAD	NA	1	Y	Y
FIN WHALE	CA-OR-WA	2014	7	29	VESSEL STRIKE	VENTURA	CA	DEAD		DEAD	NA	1	N	Y

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FIN WHALE	CA-OR-WA	2015	2	7	UNIDENTIFIED FISHERY INTERACTION	ORANGE	CA	SI	2.5 MILES WEST OF DANA POINT HARBOR. UNKNOWN GEAR BEHIND BLOWHOLE, APPEARS TO BE CONSTRICTING AND LOOKS TO EXTEND TOWARDS MOUTH. GEAR CONFIGURATION AND AMOUNT UNKNOWN. VIDEO AND PHOTOS REVIEWED BY J. CARRETTA AND A. HENRY.	SI	L2	1	Y	Y
FIN WHALE	CA-OR-WA	2015	4	10	VESSEL STRIKE	LOS ANGELES	CA	DEAD	MODERATE DECOMPOSITION. NECROPSIED. 307 PLATES OF BALEEN (LEFT), PARTS OF BROKEN VERTEBRA FROM CONTACT ZONE.	DEAD	NA	1	N	Y
FIN WHALE	CA-OR-WA	2015	8	24	VESSEL STRIKE	ALAMEDA	CA	DEAD	WHALE STUCK ON BOW OF VESSEL. CARCASS TOWED TO ANGEL ISLAND FOR NECROPSY.	DEAD	NA	1	N	Y
FIN WHALE	CA-OR-WA	2015	10	9	UNIDENTIFIED FISHERY INTERACTION	ORANGE	CA	SI	2 MILES OFF DANA POINT. PHOTOS SHOW ROPE / LINE AROUND BODY OF TRAVELING WHALE, BEHIND BLOWHOLE BUT FORWARD OF PECTORAL FLIPPER AREA. LINE APPEARS TO BE TIGHT / CONSTRICTING AROUND ANIMAL. WHALE APPEARS SLIGHTLY EMACIATED. HEALTH DECLINE. PHOTOS REVIEWED BY J. CARRETTA AND A. ANIMAL FIRST REPORTED OFF YERBA BUENA ISLAND ON 1/5/2017 BY USCG, WHEN A VESSEL APPEARED TO HAVE A CARCASS WRAPPED AROUND ITS BOW. THE CARCASS FELL OFF AS THE VESSEL TURNED TO APPROACH THE CHANNEL. CARCASS WAS THEN SEEN AGAIN FLOATING IN OAKLAND HARBOR ON 1/7/2017. DUE TO BAD WEATHER AND LOGISTICAL DELAYS IN GETTING CARCASS TOWED TO AN APPROPRIATE SITE (ANGEL ISLAND), A PARTIAL NECROPSY WAS CONDUCTED ON FEB. 6TH AND ANOTHER ON MARCH 2ND. FRACTURED RIBS WERE IDENTIFIED VIA NECROPSY AND CAUSE OF DEATH ATTRIBUTED TO VESSEL STRIKE.	SI	L2	1	Y	Y
FIN WHALE	CA-OR-WA	2017	1	5	VESSEL STRIKE	ALAMEDA	CA	DEAD	FRESHLY-DEAD WHALE FOUND ON THE BOW OF A VESSEL AS IT APPROACHED COMMENCEMENT BAY. THIS WHALE WAS IN GOOD BODY CONDITION, WITH OILY BLUBBER AND A GOOD AMOUNT OF SUBCUTANEOUS FAT, AND HAD BEEN RECENTLY FEEDING ON A LARGE QUANTITY OF KRILL BASED ON BOTH STOMACH AND INTESTINAL CONTENTS AND SOME REMAINS FOUND IN THE BALEEN. THERE WAS A SIGNIFICANT AMOUNT OF HEMORRHAGE ALONG THE MID-BACK, WHICH WAS DETERMINED TO BE THE IMPACT POINT OF THE SHIP WHILE THE WHALE WAS ON 5/16/2018 NOAA RECEIVED A REPORT FROM ST. BAY HARBOR PILOTS ABOUT A DECEASED WHALE DRAPED ACROSS THE BOW OF A LARGE SHIP ENTERING THE BAY. WHALE WAS OBSERVED FALLING OFF THE BOW IN THE TURNING CHANNEL NEAR OAKLAND. ON 5/18/2018 THE MARINE MAMMAL CENTER RECEIVED A REPORT REGARDING A DECEASED WHALE PARTIALLY SUBMERGED, WEDGED BETWEEN POSTS AND PINNED UNDERNEATH A BRIDGE NEAR OAKLAND. ON 5/18, WHALE WAS TOWED TO ANGEL ISLAND FOR A NECROPSY. TWO VERTEBRAE OF THE UPPER LUMBAR REGION WERE DISPLACED 90 DEGREES FROM THE REMAINING LUMBAR VERTEBRAE. THE INTERVERTEBRAL DISC AND LIGAMENOUS SUPPORT WERE COMPLETELY RUPTURED. DEGREE OF DISPLACEMENT WOULD SURELY HAVE SEVERED THE SPINAL CORD. NOTE THAT SINCE WHALE WAS TOWED BY TAIL, DEGREE OF ACTUAL DISPLACEMENT MAY HAVE BEEN REDUCED DURING TOWING (WHICH TENDS TO	DEAD	NA	1	N	Y
FIN WHALE	CA/OR/WA	2018	5	16	VESSEL STRIKE	ALAMEDA	CA	DEAD	NECROPSY REPORT AND PHOTOS NOTE EXTENSIVE MUSCLE HEMMORRHAGING, FRACTURES TO SKULL, RIBS, AND VERTEBRAE. CONSISTENT WITH VESSEL STRIKE AS CAUSE OF DEATH AS NOTED IN NECROPSY REPORT.	DEAD	NA	1	N	Y
FIN WHALE	CA/OR/WA	2018	5	22	VESSEL STRIKE	MARIN	CA	DEAD		DEAD	NA	1	N	Y

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FIN WHALE	CA/OR/WA	2018	5	24	UNIDENTIFIED FISHERY INTERACTION	SANTA BARBARA	CA	SI	A BALL OF DARK ROPE ON THE BACK POSTERIOR TO BLOWHOLE THAT LEADS TO THE HEAD AND MOUTH AREA. ROPE APPEARED TIGHT / TAUGHT IN PHOTOS REVIEWED BY J. CARRETTA. NO TAIL WRAPS, NO TRAILING GEAR. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN.	SI	L2	1	Y	Y
FIN WHALE	CA/OR/WA	2018	10	8	VESSEL STRIKE	LOS ANGELES	CA	DEAD	CAME IN DEAD ON BOW OF VESSEL. LARGE IMPACT WOUND ON RIGHT SIDE OF BODY BEHIND PECTORAL FLIPPER. JAWS BEGINNING TO TEAR APART.	DEAD	NA	1	N	Y
GRAY WHALE	EASTERN N PACIFIC	2014	1	5	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI (PRORATE)	ENTANGLEMENT ON HEAD OF WHALE, INCLUDED FLOAT. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN.	(PRORATE)	L10	0.75	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2014	4	15	UNIDENTIFIED FISHERY INTERACTION	VENTURA	CA	SI (PRORATE)	ENTANGLED IN UNSPECIFIED GEAR. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN.	(PRORATE)	L10	0.75	Y	Y
GRAY WHALE	EASTERN N PACIFIC-PCFG	2014	5	27	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	CURRY	OR	SI (PRORATE)	ENTANGLED GRAY WHALE APPEARED TO BE SWIMMING WELL. VIDEO SHOWS AN ORANGE/RED OR WHITE/RED BUOY TRAILING JUST A FEW FEET BEHIND IT. OBSERVER LOST SIGHT OF THE ANIMAL BEFORE CONTACTING OREGON STATE UNIVERSITY. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
GRAY WHALE	EASTERN N PACIFIC-PCFG	2014	5	28	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	LINCOLN	OR	SI (PRORATE)	GRAY WHALE CALF (ATTENDED BY MOTHER) ENTANGLED IN LINE AROUND HEAD AND TRAILING ONE ORANGE AND ONE WHITE BUOY. BUOYS ESTIMATED TO BE 20-25 FT BEHIND FLUKES. NO DISENTANGLEMENT ATTEMPT. BOTH ANIMALS MOVING NORTH AT APPROX. 3.5 KTS (SHADOWED BY RHIB VESSEL), THUS IT IS THOUGHT NO POT/TRAP IS ATTACHED TO ANIMAL. OTHERWISE SPEED WOULD BE SLOWER. MOTHER OF CALF IS A KNOWN ANIMAL (CRC-554) WITH NORTHERN CA / SOUTHERN OR SIGHTING HISTORY BACK TO 1997. GIVEN THE SIGHTING HISTORY OF MOTHER, SHE AND CALF ARE CONSIDERED ENTANGLED WITH YELLOW LINE WRAPPED AROUND ITS BODY, MAY INVOLVE MOUTH, NO BUOYS; WHALE LICE ON HEAD AND POST CRANIAL DIP; UNKNOWN GEAR TYPE. GEAR DISCARDED BEFORE NOAA COULD EVALUATE. FREE-SWIMMING; NEWPORT BEACH LG FREED WHALE; RESIGHTED MOVING NORTH 7/26. SERIOUS INJURY BECAUSE LACK OF CONFIRMATION THAT ALL GEAR WAS GILLNET, PINK 8.25 INCH MESH, GEAR EXTENDS 40 FEET BEHIND ANIMAL- GEAR ORIGINATED IN MOUTH AND CUT DOWN TO 10 FEET OUT BOTH SIDES OF MOUTH. ENTANGLEMENT DEEPLY EMBEDDED IN MOUTH, RUNNING DOWN BOTH SIDES OF BODY, UNDER THE PECTORAL FINS, AND OVER THE FLUKE. CUT LINE ON SIDE OF BODY WITH CUTTING KNIFE, SOME GEAR REMAINING IN MOUTH. L2 SERIOUS INJURY BECAUSE OF REMAINING GEAR ON ANIMAL AND APPARENT CONSTRICTING NATURE OF GEAR ('DEEPLY EMBEDDED'). MESH SIZE IS CONSISTENT WITH CALIFORNIA SET GILLNET FISHERY FOR HALIBUT, BUT IT IS UNKNOWN WHERE ANIMAL PICKED UP GEAR. SIMILAR MESH SIZES MAY BE USED SOUTH OF US / ENTANGLED WITH YELLOW POLYLINE AND A COUPLE OF FLOATS TRAILING BEHIND. THRASHING INDICATES RECENT ENTANGLEMENT; ANIMAL IN DISTRESS; ANIMAL NOT RESIGHTED. POSSIBLY LIFE-THREATENING.	SI (PRORATE)	L10	0.75	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2014	7	24	UNIDENTIFIED FISHERY INTERACTION	ORANGE	CA	SI (PRORATE)	ENTANGLED WITH YELLOW LINE WRAPPED AROUND ITS BODY, MAY INVOLVE MOUTH, NO BUOYS; WHALE LICE ON HEAD AND POST CRANIAL DIP; UNKNOWN GEAR TYPE. GEAR DISCARDED BEFORE NOAA COULD EVALUATE. FREE-SWIMMING; NEWPORT BEACH LG FREED WHALE; RESIGHTED MOVING NORTH 7/26. SERIOUS INJURY BECAUSE LACK OF CONFIRMATION THAT ALL GEAR WAS GILLNET, PINK 8.25 INCH MESH, GEAR EXTENDS 40 FEET BEHIND ANIMAL- GEAR ORIGINATED IN MOUTH AND CUT DOWN TO 10 FEET OUT BOTH SIDES OF MOUTH. ENTANGLEMENT DEEPLY EMBEDDED IN MOUTH, RUNNING DOWN BOTH SIDES OF BODY, UNDER THE PECTORAL FINS, AND OVER THE FLUKE. CUT LINE ON SIDE OF BODY WITH CUTTING KNIFE, SOME GEAR REMAINING IN MOUTH. L2 SERIOUS INJURY BECAUSE OF REMAINING GEAR ON ANIMAL AND APPARENT CONSTRICTING NATURE OF GEAR ('DEEPLY EMBEDDED'). MESH SIZE IS CONSISTENT WITH CALIFORNIA SET GILLNET FISHERY FOR HALIBUT, BUT IT IS UNKNOWN WHERE ANIMAL PICKED UP GEAR. SIMILAR MESH SIZES MAY BE USED SOUTH OF US / ENTANGLED WITH YELLOW POLYLINE AND A COUPLE OF FLOATS TRAILING BEHIND. THRASHING INDICATES RECENT ENTANGLEMENT; ANIMAL IN DISTRESS; ANIMAL NOT RESIGHTED. POSSIBLY LIFE-THREATENING.	SI (PRORATE)	L10	0.75	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2014	9	2	GILLNET FISHERY	LOS ANGELES	CA	SI	ENTANGLED WITH YELLOW POLYLINE AND A COUPLE OF FLOATS TRAILING BEHIND. THRASHING INDICATES RECENT ENTANGLEMENT; ANIMAL IN DISTRESS; ANIMAL NOT RESIGHTED. POSSIBLY LIFE-THREATENING.	SI	L2	1	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2014	9	11	UNIDENTIFIED FISHERY INTERACTION	SAN DIEGO	CA	SI (PRORATE)	ENTANGLED WITH YELLOW POLYLINE AND A COUPLE OF FLOATS TRAILING BEHIND. THRASHING INDICATES RECENT ENTANGLEMENT; ANIMAL IN DISTRESS; ANIMAL NOT RESIGHTED. POSSIBLY LIFE-THREATENING.	(PRORATE)	L10	0.75	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2015	1	21	VESSEL STRIKE	KING	WA	DEAD	PIER 52 SEATTLE FERRY DOCK. SHARP FORCE TRAUMA CAUSED BY LARGE PROPELLER. DEFINITE CAUSE OF MORTALITY. 5-6 PROPELLER CUTS ON R SIDE/CROSS BACK, BEGINNING JUST DORSAL OF RIGHT PECTORAL FIN. UNABLE TO SEE HOW FAR THEY EXTEND ACROSS BACK DUE TO CARCASS POSITION, VISIBLE PORTIONS 80-180CM. MODERATELY DECOMPOSED WHALE.	DEAD	NA	1	N	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
GRAY WHALE	EASTERN N PACIFIC	2015	2	2	GILLNET FISHERY	LOS ANGELES	CA	SI	ENTANGLED IN BLUE / GREEN GILLNET, NET AROUND HEAD / BLOWHOLE REGION, FULL GEAR CONFIGURATION UNKNOWN, BUT AN ABSENCE OF GEAR ON FLUKES AND PEDUNCLE NOTED. ANIMAL MILLING AT SURFACE AND CHANGING DIRECTION OFTEN. HEAVY COATING OF BARNACLES ON BODY, ANIMAL IN POOR CONDITION, WITH NECROTIC TISSUE ON THE HEAD EVIDENT. LONG-TERM SURVIVAL UNLIKELY. PHOTOS REVIEWED BY J. CARRETTA AND D. WELLER.	SI	L10	1	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2015	2	26	UNIDENTIFIED FISHERY INTERACTION	SANTA BARBARA	CA	SI	POSSIBLE CRAB POTS. BUOY COLORS DIFFICULT TO SEE FROM COAST GUARD VIDEO, REPORTED AS RED AND WHITE. LINE COMES DOWN BOTH SIDES OF BODY AND COMES TOGETHER AT BUOY 1 ABOUT 10 FT IN FRONT OF THE FLUKE, 2ND BUOY RIGHT AT FLUKE INSERTION WRAPPED AROUND TIGHTLY WITH BUOY AT SURFACE; EXAMINATION OF USCG VIDEO BY J. CARRETTA INDICATES EVIDENCE OF CONSTRICTING WRAP AND A WHALE THAT HAS DIFFICULTY TRAVELING NORMALLY. WARRANTS USE OF SERIOUS INJURY CATEGORY L2.	SI	L2	1	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2015	3	7	UNIDENTIFIED FISHERY INTERACTION	ORANGE	CA	SI (PRORATE)	INITIALLY SEEN BREACHING MULTIPLE TIMES, THEN RESTING AT SURFACE AND ATTEMPTING TO SWIM BACKWARDS WITH MOUTH OPEN. LINE OR ROPE TRAILING DOWN LEFT SIDE FROM MOUTH TO THE PECTORAL FIN AND AFT OF THE BLOWHOLES. UNABLE TO SEE WHERE THE LINE ORIGINATED. FULL CONFIGURATION OF GEAR IS UNKNOWN. PHOTOS REVIEWED BY J. CARRETTA.	SI (PRORATE)	L10	0.75	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2015	3	11	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	SAN LUIS OBISPO	CA	SI (PRORATE)	SELF REPORT FROM FISHERMAN IN HIS OWN GEAR; 1 CRAB POT ON 300 FT OF LINE SET IN 250 FT WITH 2 BUOYS (1 ORANGE/1 PURPLE) WITH TEAL LINE CONNECTING TO BLUE POLY LINE WRAPPED AROUND THE FLUKE; TIER 1 CDFW DUNGENESS CRAB GEAR. FULL EXTENT OF GEAR ENTANGLEMENT UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
GRAY WHALE	EASTERN N PACIFIC-PCFG	2015	3	16	UNIDENTIFIED FISHERY INTERACTION	ORANGE	CA	SI	LINE COMING OUR RIGHT SIDE OF MOUTH, MORE TRAILING LINE COMING FROM UNDERNEATH. PHOTOS REVIEWED BY J. CARRETTA AND D. WELLER. PHOTOS DO NOT SHOW GEAR, BUT RESPONDERS (J. CALAMBOKIDOS) CONFIRMED PRESENCE OF GEAR. FULL GEAR CONFIGURATION UNKNOWN. ANIMAL HAS MODERATE CYAMID / BARNACLE LOAD, INDICATIONS OF A HEALTH DECLINE, THUS ASSIGNED A SERIOUS INJURY VALUE = 1.	SI	L10	1	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2015	3	19	UNIDENTIFIED FISHERY INTERACTION	JEFFERSON	WA	SI (PRORATE)	GRAY WHALE REPORTED WITH TAIL ENTANGLED IN FISHING LINE, WITH ORANGE BUOY ATTACHED. NO PHOTOS OR VIDEO TO DETERMINE EXTENT OF GEAR ENTANGLEMENT. REPORTED BY A TUGBOAT TO USCG.	SI (PRORATE)	L10	0.75	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2015	5	21	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	CURRY	OR	SI (PRORATE)	USCG SECTOR NORTH BEND, OREGON REPORTED WHALE TO BE TRAVELING NORTH AT 3 MPH WITH 3 OTHER CONSPECIFICS AND A CALF. ~30 FEET OF LINE WITH A SINGLE YELLOW BUOY TRAILING BEHIND THE WHALE, APPEARED TO BE MOVING OKAY AND NO DESCRIPTION OF WHERE ON THE BODY LINE WAS WRAPPED. 5/25/2015: REPORTED AGAIN BY A WHALE WATCH VESSEL OUT OF DEPOE BAY, WAS SIGHTED HOURS EARLIER IN NEWPORT, OR. LAST KNOWN LOCATION ON 5/25/2015 WAS JUST SOUTH OF THE CAPE MEARES LIGHTHOUSE SWIMMING NORTH AT 3MPH. GEAR CONFIGURATION UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2015	5	23	GILLNET FISHERY	VALDEZ-CORDOVA	AK	DEAD	A FRESH GRAY WHALE CARCASS WAS DISCOVERED ON THE COPPER RIVER DELTA. THE CARCASS DISPLAYED LINEAR CUTS AND CHAFING ON THE ROSTRUM, INDICATIVE OF RECENT GILLNET ENTANGLEMENT. EXAMINED BY K. WYNNE AND E. LYMAN.	DEAD	NA	1	Y	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
GRAY WHALE	EASTERN N PACIFIC	2015	7	30	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	ORANGE	CA	SI (PRORATE)	FISHERMEN SELF-REPORT, BRINGING IN SET NET WHEN GRAY WHALE APPROACHED FROM UNDER BOAT, HIT NET, SPUN, VIOLENTLY REACTED, EVENTUALLY BROKE FREE, UNCERTAIN IF ANY GEAR REMAINED ON WHALE; FISHERMAN UNSURE IF EVEN REALLY EVER ENTANGLED BUT THINKS 20 FT OF HIS NET MAY BE HAVE BEEN GONE. UNKNOWN GEAR CONFIGURATION ON ANY REMAINING GEAR. NO PHOTOS.	SI (PRORATE)	L10	0.75	Y	Y
GRAY WHALE	EASTERN N PACIFIC-PCFG	2015	8	15	GILLNET FISHERY	CLALLAM	WA	SI	JUVENILE GRAY WHALE FOUND ANCHORED AND ENTANGLED IN A MARINE SET GILLNET INSIDE NEAH BAY. WHALE HAD 3-4 WRAPS OF LEADLINE AND CORKLINE AROUND THE CAUDAL PEDUNCLE WITH LINES STREAMING OVER THE FLUKE LEADING TO A MASS OF GILLNET MESH AND LINES. WHALE REMAINED IN AREA, WITH MULTIPLE DISENTANGLEMENT EFFORTS CONTINUING INTO SEPTEMBER. FINAL PHOTOS OF WHALE SHOW ANIMAL SWIMMING FREE, FEEDING NORMALLY, AND APPARENTLY GEAR FREE. INITIAL INJURY ASSESSMENT IS L2 BECAUSE OF CONSTRICTING GEAR, BUT FINAL ASSESSMENT IS NON-SERIOUS INJURY BECAUSE OF INTERVENTION EFFORTS TO REMOVE GEAR. BIOPSY SAMPLE ALSO OBTAINED AND SENT TO SWFSC. PHOTOS AND NARRATIVE PROVIDED BY MAKAAH TRIBE, REVIEWED BY J. CARRETTA.	NSI	L2	0	Y	N
GRAY WHALE	EASTERN N PACIFIC	2015	9	8	UNIDENTIFIED FISHERY INTERACTION	SANTA BARBARA	CA	SI (PRORATE)	GRAY WHALE REPORTED AS ENTANGLED IN NETTING, NO ADDITIONAL DETAILS.	SI (PRORATE)	L10	0.75	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2015	9	26	GILLNET FISHERY	ORANGE	CA	SI (PRORATE)	VESSEL REPORTED A GRAY WHALE ENTANGLED IN NETTING WITH NO TRAILING GEAR 12 MILES OFF SAN ONOFRE. NO FURTHER DETAILS AVAILABLE.	SI (PRORATE)	L10	0.75	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2015	12	21	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	SAN DIEGO	CA	SI (PRORATE)	ENTANGLED ON LEFT SIDE TRAILING LOBSTER-TYPE BUOY POSSIBLY ALSO ON FLUKES, BUOY ORANGE IN COLOR AND EASILY VISIBLE. GEAR CONFIGURATION UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2016	2	5	UNIDENTIFIED FISHERY INTERACTION	ORANGE	CA	SI (PRORATE)	ENTANGLED IN ROPE, DRAGGING A SINGLE WHITE BUOY. TRAVELING WITH OTHER WHALES SOUTHBOUND, NO PHOTOS. OFF DANA POINT.	SI (PRORATE)	L10	0.75	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2016	3	24	VESSEL STRIKE	SAN DIEGO	CA	DEAD	"S" SHAPED LACERATIONS ALONG LEFT LATERAL SIDE AT ABDOMINAL (6) AND PEDUNCLE (6) INDICATE THIS ANIMAL WAS HIT BY A SHIP, ALTHOUGH IT IS NOT CLEAR IF THIS HAPPENED BEFORE OR AFTER DEATH.	DEAD	NA	1	N	Y
GRAY WHALE	EASTERN N PACIFIC	2016	4	21	UNIDENTIFIED FISHERY INTERACTION	ORANGE	CA	SI	JUVENILE OR CALF SWIMMING NORTH WITH YELLOW LINE, MULTIPLE WRAPPED AROUND TAIL STOCK, OVER FLUKES, 2 WHITE BULLET BUOYS AT BASE OF TAIL STOCK, LINE TRAILING WHALE 50 FEET. ANIMAL RE-SIGHTED ON 4/27/2016, SWIMMING WITH ADULT ANIMAL OFF BIG SUR. NO TELEMETRY ATTEMPT MADE BECAUSE OF SMALL SIZE OF WHALE. CONFIGURATION AND SEVERITY OF ENTANGLEMENT UNKNOWN. OUTCOME UNKNOWN. EXTENSIVE WRAPS LIKELY TO BECOME CONSTRICTING AS ANIMAL GROWS.	SI	L2	1	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2016	4	22	UNIDENTIFIED FISHERY INTERACTION	ORANGE	CA	SI (PRORATE)	LINE WRAPPED AROUND THE BASE OF THE FLUKES; WHITE BUOY AT BASE OF TAIL, TRAILING LINE APPEARS TO BE 15-20 FEET LONG, NO FLOATS ATTACHED TO TRAILING LINE [NOT SAME WHALE AS 20160421ER, BASED OFF COMPARISON OF VIDEO TO PHOTOS, BODY SIZE, SWIMMING PATTERN, COLOR PATTERN]. ANIMAL DESCRIBED AS MOVING NORTH AT 2-3KTS AND NOT USCG MOTOR LIFEBOAT STRUCK A GRAY WHALE WHILE TRAVELING AT APPROXIMATELY 10 KNOTS. FOLLOWING COLLISION, WHALE POPPED ITS HEAD ABOVE THE SURFACE AND THEN DOVE. USCG MOTOR LIFEBOATS ARE APPROXIMATELY 45 FT IN SIZE. NO DETAILS ON INJURY TO WHALE.	SI (PRORATE)	L10	0.75	Y	Y
GRAY WHALE	EASTERN N PACIFIC-PCFG	2016	7	22	VESSEL STRIKE	LINCOLN	OR	NSI		NSI	L6C	0	N	N

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
GRAY WHALE	EASTERN N PACIFIC-PCFG	2016	8	1	VESSEL STRIKE	CURRY	OR	DEAD	MULTIPLE DEEP CUTS INTO LEFT THORAX AND ABDOMEN CLEARLY INDICATE PROPELLER WOUNDS. MODERATELY-DECOMPOSED CALF.	DEAD	NA	1	N	Y
GRAY WHALE	EASTERN N PACIFIC	2017	1	28	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	LOS ANGELES	CA	SI	RIGHT MIDDLE WRAP AROUND TAILSTOCK RIGHT AT THE FLUKE INSERTION WITH 3 LINES CUTTING INTO THE LEADING EDGES OF THE FLUKES AND TRAILING OVER THE TOP OF THE FLUKES. THE REST OF LINES WRAPPED AROUND PEDUNCLE GO UNDER THE TAIL AND TRAIL APPROX. 50-75 FEET BEHIND THE WHALE. IN THE LINE THERE ARE THREE BUOYS (ALL BULLET) WITH ONE BEING A BIT SMALLER ORANGE AND THEN TWO LITTLE LARGER BUOYS. ONE WAS ALL ORANGE AND THE OTHER TRICOLOR WITH ORANGE AT TOP / WHITE IN MIDDLE / AND BLACK ON BOTTOM. THIS BUOY HAD A CALIFORNIA OCRAB TAG THAT WAS LIGHT BLUE BUT COULDN'T READ ANYTHING ON IT. PARTIAL DISENTANGLEMENT ACCOMPLISHED AND RESIGHT OF ANIMAL NEXT DAY INDICATED BUOYS HAD MOVED FURTHER BACK TOWARD TAIL. ANIMAL WAS USING ITS PECTORAL FLIPPERS FOR SWIMMING PRIMARILY. ASSIGNED SERIOUS INJURY UNDER L2 DUE TO CONSTRICTING NATURE OF GEAR REMAINING ON ANIMAL	SI	L2	1	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2017	1	29	VESSEL STRIKE	ORANGE	CA	SI	A 65FT COASTAL CRUISER STRUCK A WHALE WHILE TRANSITING BETWEEN NEWPORT HARBOR AND DANA POINT HARBOR, 2 NM NW OF DANA POINT HARBOR. INJURED GRAY WHALE IS REPORTED ALIVE AND APPEARS TO HAVE THE FOLLOWING INJURIES: 3 DEEP LACERATIONS NEAR ITS PECTORAL FIN. LOTS OF BLOOD IN WATER.	SI	L6A	1	N	Y
GRAY WHALE	EASTERN N PACIFIC	2017	2	12	UNIDENTIFIED FISHERY INTERACTION	SAN DIEGO	CA	SI (PRORATE)	ENTANGLED WHALE HAD WOOD-LIKE FLOAT TRAILING 30 YARDS BEHIND. WHALE BREACHING FOR 10-15 MIN BEFORE MOVING ON WITH OTHER WHALES. NO PHOTOS, GEAR TYPE / CONFIGURATION UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2017	3	12	UNIDENTIFIED FISHERY INTERACTION	SAN DIEGO	CA	SI (PRORATE)	FREE-SWIMMING WHALE TOWING A SINGLE BUOY APPROXIMATELY 10 FEET BEHIND ANIMAL. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. ANIMAL RESIGHTED NEXT DAY, 15 NMI NW OF PREVIOUS DAY'S POSITION, STILL TRAILING BUOY, NOT RAISING FLUKES ABOVE WATER DURING SEVERAL SURFACING CYCLES. VIDEO REVIEWED BY J. CARRETTA.	SI (PRORATE)	L10	0.75	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2017	3	19	GILLNET FISHERY	ORANGE	CA	SI	WHALE SWIMMING WITH MASS OF BLUE ROPE, PINK GILLNET, AND BLACK FLOATS AROUND FLUKES. CLOSE-UP PHOTO SHOWS OPEN WOUND WHERE BLUE ROPE AND FLOATS ARE ATTACHED. SERIOUS INJURY BECAUSE OPEN WOUND HAS POTENTIAL TO BECOME NECROTIC. VIDEO AND PHOTOS REVIEWED BY J. CARRETTA.	SI	L2	1	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2017	3	28	GILLNET FISHERY	ORANGE	CA	SI (PRORATE)	PINK MONOFILAMENT NETTING ON HEAD, EXTENDING BACK PAST BLOWHOLES AND DOWN LEFT SIDE OF ANIMAL TO WATERLINE. MONOFILAMENT NETTING WOUND ON ITSELF. WHALE IS RAISING ITS FLUKES DURING DIVE CYCLES. NO ENTANGLEMENT ON FLUKES OR TAILSTOCK VISIBLE. TOTAL AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. PHOTOS REVIEWED BY J. CARRETTA.	SI (PRORATE)	L10	0.75	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2017	4	1	MARINE DEBRIS	ORANGE	CA	SI	GRAY WHALE SWIMMING WITH LARGE METAL FRAME AROUND HEAD, JUST POSTERIOR TO BLOWHOLES. FRAME IS FIRMLY ATTACHED TO WHALE AND IS CONSIDERED TO BE A SERIOUS INJURY DUE TO THE CONSTRICTING NATURE OF THE ENTANGLEMENT AND PROBABILITY OF PREVENTING THE WHALE FROM FEEDING PROPERLY. WHALE RESIGHTED 9 DAYS LATER AS IT MOVED NORTH ALONG THE COAST. PHOTOS / VIDEO REVIEWED BY J.	SI	L2	1	N	Y

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GRAY WHALE	EASTERN N PACIFIC	2017	4	15	GILLNET FISHERY	ORANGE	CA	SI	BLUE TWINE LINE ON TAIL WITH KELP, GILLNET WRAPPED AROUND TAILSTOCK AND LEADING EDGE OF FLUKE; RIGHT TIP OF FLUKE BROKEN OFF AND POSSIBLE NECROTIC TAIL; INITIAL MEASUREMENTS ~6 INCH MESH SIZE. SWIMMING SLOWLY, MOSTLY WITH PECTORAL FLIPPERS, SURFACING HEAD 1ST AND NO FLUKE UP DIVING. WHALE DISENTANGLEMENT TEAM REMOVED OVER 100 FEET OF GILLNET. THERE IS STILL SOME WEBBING AND LINE REMAINING ON FLUKES. CONSIDERED SERIOUS INJURY DUE TO ORIGINAL AND POSSIBLY CONTINUING CONSTRICTING NATURE OF ENTANGLEMENT.	SI	L10	1	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2017	4	16	UNIDENTIFIED FISHERY INTERACTION	LOS ANGELES	CA	SI (PRORATE)	ORANGE LINE WRAPPED AROUND CAUDAL PEDUNCLE. NO PHOTOS. UNKNOWN GEAR CONFIGURATION AND	SI (PRORATE)	L10	0.75	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2017	4	19	UNIDENTIFIED FISHERY INTERACTION	SAN LUIS OBISPO	CA	SI (PRORATE)	CALF OF PAIR ENTANGLED WITH YELLOW / ORANGE ROPE OVER BACK, THINNER WHITE LINE DRAPED OVER UPPER TAILSTOCK. GEAR AMOUNT AND CONFIGURATION UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2017	4	21	UNIDENTIFIED FISHERY INTERACTION	ORANGE	CA	SI (PRORATE)	BLUE ROPE/GEAR TRAILING 5 FEET, SMALL "BLUE" BUOYS DESCRIBED; IT IS POSSIBLE THAT THIS WHALE IS SAME AS 4/15 ENTANGLED IN GILLNET THAT WAS PARTIALLY REMOVED. VIDEO REVIEWED BY J. CARRETTA. GEAR CONFIGURATION AND AMOUNT UNDETERMINED.	SI (PRORATE)	L10	0.75	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2017	4	28	DUNGENESS CRAB POT FISHERY (WASHINGTON)	PACIFIC	WA	DEAD	GEAR FROM MULTIPLE POTS WRAPPED AROUND CAUDAL PEDUNCLE OF DEAD, FLOATING MALE CALF OF THAT YEAR (20 FEET IN LENGTH). FISHERY SOURCE BASED ON GEAR TAGS RETRIEVED FROM WHALE. NECROPSY DETERMINED ENTANGLEMENT AS CAUSE OF DEATH.	DEAD	NA	1	Y	Y
GRAY WHALE	EASTERN N PACIFIC-PCFG	2017	6	12	UNIDENTIFIED FISHERY INTERACTION	GRAYS HARBOR	WA	DEAD	UNHEALED SEVERE ENTANGLEMENT INJURIES ON TAILSTOCK AND FLUKE. DEEP CUTS FROM LINES ON EACH SIDE OF FLUKE INSERTION, WRAP INJURY WITH ABRAIDED TISSUE CUTTING DEEP INTO RIGHT FLUKE (2/3 TOWARD TIP). POSSIBLE IMPRESSIONS ACROSS HEAD. EVIDENCE OF CONSTRICTING ENTANGLEMENT.	DEAD	NA	1	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2017	6	15	GILLNET FISHERY	LAKE AND PENINSULA BOROUGH	AK	SI (PRORATE)	ADFG&G CHIGNIK AREA MANAGEMENT BIOLOGIST PASSED ALONG MULTIPLE REPORTS FROM PEOPLE AROUND CHIGNIK LAGOON REPORTING GRAY WHALE WITH FISHING LINE ENTANGLED AROUND TAIL. IT WAS SWIMMING BUT SLOWLY NEAR FISHING BOATS BY THE MOUTH OF THE LAGOON. ADDITIONAL DETAILS: REPORTED BY LOCAL FISHERMEN ON 6/14/17 IN CHIGNIK LAGOON. SMALL GRAY WHALE, POSSIBLY SUBADULT. GEAR DESCRIBED AS JAPANESE FISHING NET WITH BLACK FLOATS (SHE DOESN'T KNOW HOW THEY ID'D AS JAPANESE). NET WRAPPED AROUND FLUKE. ASSIGNED PRORATED SERIOUS INJURY DUE TO UNKNOWN AMOUNT KILLED AND HARVESTED BY LOCALS ON THE KUSKOWIM RIVER.	SI (PRORATE)	L10	0.75	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2017	7	29	ILLEGAL HUNT	BETHEL	AK	DEAD	DEAD ANIMAL WITH ROPE, NETTING AND WIRE IN MOUTH. GEAR CAME LOOSE FROM ANIMAL WHILE IT WAS ROLLING AROUND IN SURF.	DEAD	NA	1	N	Y
GRAY WHALE	EASTERN N PACIFIC	2017	11	8	UNIDENTIFIED FISHERY INTERACTION	VENTURA	CA	DEAD	YELLOW ROPE ON TAIL AND TRAILING 100 FEET BEHIND WHALE. RESPONSE EFFORTS CONFIRMED 8 INCH PINK MONOFILAMENT GILLNET WRAPPED AROUND TAIL, INCLUDING MULTIPLE BLACK FLOATS, YELLOW AND BLACK ROPE. ANIMAL SWIMMING SLOWLY NORTH AND DIVING. INTERVENTION RESPONSE RESULTED IN THE CUTTING AND REMOVAL OF SOME GEAR. WHALE WAS LOST AFTER THIS INTERVENTION AND REMAINING GEAR AMOUNT AND CONFIGURATION IS UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2017	12	11	GILLNET FISHERY	ORANGE	CA	SI (PRORATE)	YELLOW ROPE ON TAIL AND TRAILING 100 FEET BEHIND WHALE. RESPONSE EFFORTS CONFIRMED 8 INCH PINK MONOFILAMENT GILLNET WRAPPED AROUND TAIL, INCLUDING MULTIPLE BLACK FLOATS, YELLOW AND BLACK ROPE. ANIMAL SWIMMING SLOWLY NORTH AND DIVING. INTERVENTION RESPONSE RESULTED IN THE CUTTING AND REMOVAL OF SOME GEAR. WHALE WAS LOST AFTER THIS INTERVENTION AND REMAINING GEAR AMOUNT AND CONFIGURATION IS UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2018	1	29	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
GRAY WHALE	EASTERN N PACIFIC	2018	2	21	UNIDENTIFIED FISHERY INTERACTION	ORANGE	CA	SI	LINE ENTANGLED AROUND THE BASE OF THE PEDUNCLE AND OVER THE FLUKE. LINE APPEARS TO BE CUTTING INTO PEDUNCLE TISSUE. REPORTING PARTY NOTED THAT LINE HAD SOME TENSION AND MAY HAVE BEEN CARRYING SOME WEIGHT. ANIMAL BODY CONDITION LOOKED GOOD FROM PHOTOGRAPHS REVIEWED BY J. CARRETTA. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN.	SI	L2	1	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2018	2	21	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI (PRORATE)	SINGLE ROUND (NOT OBLONG) RED / ORANGE BUOY TRAILED RELATIVELY CLOSE BEHIND WHALE. NO PHOTOS. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2018	3	3	GILLNET FISHERY	VENTURA	CA	SI (PRORATE)	BLUE MESH GILLNET WRAPPED AROUND CAUDAL PEDUNCLE OF SWIMMING WHALE, WITH 4 TO 5 SMALL, RED BULLET BUOYS ASSOCIATED. MESH SIZE DIFFICULT TO DETERMINE AS PHOTOS WERE TAKEN FROM OBSERVER ON SHORE. PHOTOS REVIEWED BY J. CARRETTA.	SI (PRORATE)	L10	0.75	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2018	3	18	VESSEL STRIKE	LOS ANGELES	CA	SI	NMFS RECEIVED CALLS TO REPORT THAT THE STARSHIP EXPRESS HAD STRUCK WHAT THEY BELIEVED TO BE A GRAY WHALE MID CHANNEL ON THE WAY TO CATALINA. THE CAPTAIN SAID THAT THE WHALE SURFACED ABOUT 20 FT IN FRONT OF THE BOAT WHEN IT WAS TRAVELING AT APPROXIMATELY 25 KTS SO THERE WAS NO WAY TO STOP OR AVOID THE COLLISION. HE DID INDICATE THAT THERE WAS SOME DAMAGE TO THE BULBOUS BOW AND THAT HE BELIEVED THE WHALE WAS INJURED BUT ALIVE AFTER THE CONTACT. CATEGORIZED AS SERIOUS INJURY BASED ON SIZE AND SPEED OF VESSEL.	SI	L6A	1	N	Y
GRAY WHALE	EASTERN N PACIFIC	2018	3	26	VESSEL STRIKE	SAN DIEGO	CA	DEAD	ANIMAL EXAMINED ON BEACH BY SWFSC STRANDING PROGRAM. ORGANS PROTRUDING THROUGH LACERATION AT RIGHT DORSAL SIDE AT MID-LENGTH. FRACTURED VERTEBRAE AND BONE FRAGMENTS IN THIS REGION. UNKNOWN IF THIS VESSEL STRIKE REPRESENTS SAME ANIMAL STRUCK OFF CATALINA ISLAND ON 3/18/2018. TREATED AS UNIQUE RECORD.	DEAD	NA	1	N	Y
GRAY WHALE	EASTERN N PACIFIC	2018	3	28	MARINE DEBRIS	MARIN	CA	DEAD	OBSERVED FLOATING IN RICHARDSON BAY MARCH 28 2018. FLUKES AND DISTAL PEDUNCLE MISSING. WITHIN A PORTION OF GRAY NECROTIC TISSUE IS A 6-INCH LENGTH OF WIRE WITH A COPPER CORE, DEEPLY ENTWINED WITH THE NECROTIC TISSUE. THIS REFLECTS EVIDENCE OF A CONSTRICTING ENTANGLEMENT.	DEAD	NA	1	N	Y
GRAY WHALE	EASTERN N PACIFIC	2018	4	13	DUNGENESS CRAB POT FISHERY (WASHINGTON)	PACIFIC	WA	SI	WHALE HAD BEEN SIGHTED ALIVE NINE DAYS PRIOR TO STRANDING RESPONSE. THE WHALE WAS ENTANGLED IN WASHINGTON DUNGENESS CRAB POT GEAR WHICH WAS IDENTIFIED BY TAG NUMBERS RECOVERED AT SCENE. BUOY AT LEFT MOUTH, LINE THROUGH MOUTH CIRCLING RIGHT FLIPPER ACROSS BACK TO LEFT PEDUNCLE (THIS IS THE CONFIGURATION FOUND WHEN THE ANIMAL STRANDED DEAD ONSHORE, LIKELY DIFFERENT WHEN THE ANIMAL WAS ALIVE). BRUISING AROUND PEDUNCLE WHICH MAY SUGGEST IT WAS ENTANGLED AT SOME POINT IN TIME. PHOTOS SHOW LINE THROUGH MOUTH AND A RED/BLACK STRIPE BUOY. CAUSE OF DEATH LISTED AS INANATION (=STARVATION).	DEAD	NA	1	N	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
GRAY WHALE	EASTERN N PACIFIC	2018	4	13	DUNGENESS CRAB POT FISHERY (WASHINGTON)	SNOHOMISH	WA	SI (PRORATE)	ORANGE BUOY AND LINE ENTERING MOUTH LEFT SIDE AND EXITING MOUTH RIGHT SIDE. THIS TRAILS TO A SECOND ORANGE BUOY WITH DARK GREEN AND WHITE STRIPES TO JUST IN FRONT OF THE FLUKES. ONE 10" ORANGE WITH WHITE AND GREEN STRIPED BULLET BUOY AND ANOTHER SOLID ORANGE BULLET BUOY ~ THE SAME SIZE AS THE OTHER. THEY ARE BOTH TRAILER BUOYS PART OF THE SURFACE SYSTEM OF A CRAB SET. LINE 3/8" POSSIBLY BLUE STEEL. GEAR AND VESSEL IDENTIFIED AS PART OF WASHINGTON COMMERCIAL DUNGENESS CRAB FISHERY. PERFORMED SEARCH ON 4/14/18 AND FOUND ENTANGLED GRAY WHALE JUST OFF THE CLINTON FERRY TERMINAL. TEAM SUCCESSFULLY ATTACHED A TELEMETRY BUOY AND COLLECTED UNDERWATER FOOTAGE TO DOCUMENT THE ENTANGLEMENT. THE TELEMETRY BUOY RECEIVED SEVERAL HITS WHILE TEAM WAS WITH THE WHALE SO CONFIDENT TO RELOCATE THE FOLLOWING DAY. ON 4/15/18 TEAM STARTED AT 8:30AM AND REPORTING PARTY INDICATED GILLNET ON THE HEAD AND DOWN ALONG THE BODY, WITH A MASS OF GILLNET ON OR NEAR THE TAIL. SINGLE PHOTO SHOWS MASS OF PINK MONOFILAMENT GILLNET EXTENDING FROM HEAD REGION TO DORSAL HUMP. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. WHALE REPORTED SWIMMING TO THE NORTHWEST.	SI (PRORATE)	L10	1	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2018	4	15	GILLNET FISHERY	SAN DIEGO	CA	SI (PRORATE)	GILLNET (PINK MESH, 1/2 GREEN ROPE, ~20 SMALL RED/ORANGE FLOATS) WRAPPED AROUND PEDUNCLE AND TRAILING OVER LEFT FLUKE LOBE. MOST OF THE GEAR IS BUNCHED UP IN A TIGHT BALL AROUND THE PEDUNCLE, CLOSE TO THE ANIMAL AND FAIRLY TIGHT AROUND PEDUNCLE. THERE IS ALSO SOME TRAILING GEAR (TANGLED UP MESH AND PROBABLY A LEAD LINE) TRAILING ABOUT ~20FT BEHIND WHALE. THE TRAILING GEAR IS ALWAYS BELOW THE SURFACE, BUT NOT ANCHORED OR DRAGGING ANYTHING TOO HEAVY. SO LIKELY THE TRAILING GEAR IS WEIGHTED SOMEHOW OR BEEN FOULED UP ALONG THE WAY. UNSUCCESSFUL TELEMETRY DEPLOYMENT; PRESUMED STILL ENTANGLED. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2018	4	24	GILLNET FISHERY	ORANGE	CA	SI	NECROPSY RESULTS INDICATED A FRACTURED CRANIUM AND MUSCULAR AND SKELETAL HEMORRHAGING. CONSISTENT WITH BLUNT FORCE TRAUMA CHARACTERISTIC OF A VESSEL STRIKE.	SI	L2	1	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2018	5	4	VESSEL STRIKE	ALAMEDA	CA	DEAD	PHOTOS FROM 5/6/2018 SHOWS A SINGLE ORANGE BUOY NEXT TO A HEAVILY-SCAVENGED GRAY WHALE CARCASS. BUOY NUMBER OBTAINED AND FISHERMAN INTERVIEWED. FISHERMAN INDICATED HIS GEAR WAS NOT TOUCHING WHALE AND FISHERMAN REMOVED GEAR FROM AREA AFTER SEEING PHOTOS OF WHALE. NO EXPLICIT PHOTO EVIDENCE THAT BUOY OR LINE IS ATTACHED TO CARCASS, HOWEVER, HARBOR PATROL WENT TO SAME EXACT LOCATION THE NEXT DAY AND FOUND THE CARCASS UNMOVED, INDICATING IT WAS ANCHORED BY SOMETHING. BUOY WAS NO LONGER	DEAD	NA	1	N	Y
GRAY WHALE	EASTERN N PACIFIC	2018	5	6	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	SAN LUIS OBISPO	CA	DEAD	ANCHORED WHALE WITH LINE WRAPPED AROUND THE PEDUNCLE AND BOTH FLUKE BLADES WITH THREE FLOATS AND LINE TRAILING TO APPROXIMATELY 60' BEHIND THE WHALE. DOCUMENTATION CONFIRMED NO OTHER BODY PARTS WERE INVOLVED. RESCUE TEAM WAS ABLE TO CUT MOST LINE AWAY BUT SEVERAL WRAPS REMAINED AROUND NECROTIC TISSUE AT CAUDAL PEDUNCLE. THIS WHALE WAS FOUND DEAD STRANDED ON MAY 27TH.	DEAD	NA	1	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2018	5	8	DUNGENESS CRAB POT FISHERY (WASHINGTON)	CLALLAM	WA	SI		DEAD	NA	1	N	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

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GRAY WHALE	EASTERN N PACIFIC	2018	5	11	SALMON GILLNET FISHERY	CORDOVA	AK	SI (PRORATE)	VISIBLE BLOOD FLOW. NO ADDITIONAL DETAILS ON WHETHER ANIMAL REMAINED IN GEAR OR WAS PROPELLER WOUNDS PRESENT NEAR TAIL. NO ADDITIONAL DETAILS PROVIDED.	SI (PRORATE)	L10	0.75	Y	Y
GRAY WHALE	EASTERN N PACIFIC	2018	5	17	VESSEL STRIKE	SANTA CRUZ	CA	DEAD	PALE DISCOLORED BAND OF SKIN AROUND THE NECK APPROX. 20 CMS WIDE, THE BLUBBER BENEATH THIS DISCOLORED AREA HAS SMALL PATCHES OF HEMORRHAGE. THE LEFT AXILLA HAS A LACERATION AROUND THE FLIPPER BASE, WITH DISCOLORED MUSCLE AND EDEMA BENEATH IT. THE SKIN OF THE LEFT FLIPPER IS DRY AND MISSING IN MULTIPLE PLACES. THE LEFT COMMISSURE OF THE MOUTH HAS A PALE LINEAR MARK IN IT, AND IS COVERED IN LICE. THE RIGHT SIDE OF THE WHALE HAS TWO LONG PARALLEL LACERATIONS, ONE PENETRATES THE SCAPULA WHICH IS SHATTERED (MULTIPLE FRACTURES, COMMINUTED FRACTURES), THE OTHER IS THROUGH BLUBBER AND MUSCLE. THERE IS NO HEMORRHAGE OR DISCOLORATION OF BLUBBER OR MUSCLE ADJACENT TO THESE LACERATIONS. THERE ARE MULTIPLE LINEAR MARKS ON THE SKIN TYPICAL OF ABRASION BY A BRAIDED LINE. NECROPSY REPORT INDICATED THAT VESSEL STRIKE WAS PRIMARY CAUSE OF GREEN AND WHITE LINE WRAPPED TIGHTLY AROUND LEFT PECTORAL FLIPPER AND PASSES THROUGH LEFT GAPE. EVIDENCE OF A WRAP AROUND THROAT (BLOATING LIKELY CAUSED ROPE TO SNAP--FRAYED ENDS VISIBLE). GREEN, ORANGE, AND WHITE LINES WRAPPED AROUND TAILSTOCK. FAINT IMPRESSIONS ACROSS VENTRAL LEFT FLUKE. TRAILING 2 CRAB POTS. ORIGINALLY SEEN WITH 2 ORANGE BUOYS (WHILE FLOATING), ONE VISIBLE IN INITIAL PHOTOS OF THE BEACH LANDING, BUT HAD BEEN REMOVED BY UNKNOWN PERSONS PRIOR TO OUR	DEAD	NA	1	N	Y
GRAY WHALE	EASTERN N PACIFIC	2018	5	18	VESSEL STRIKE	MARIN	CA	DEAD	INDICATED THAT VESSEL STRIKE WAS PRIMARY CAUSE OF GREEN AND WHITE LINE WRAPPED TIGHTLY AROUND LEFT PECTORAL FLIPPER AND PASSES THROUGH LEFT GAPE. EVIDENCE OF A WRAP AROUND THROAT (BLOATING LIKELY CAUSED ROPE TO SNAP--FRAYED ENDS VISIBLE). GREEN, ORANGE, AND WHITE LINES WRAPPED AROUND TAILSTOCK. FAINT IMPRESSIONS ACROSS VENTRAL LEFT FLUKE. TRAILING 2 CRAB POTS. ORIGINALLY SEEN WITH 2 ORANGE BUOYS (WHILE FLOATING), ONE VISIBLE IN INITIAL PHOTOS OF THE BEACH LANDING, BUT HAD BEEN REMOVED BY UNKNOWN PERSONS PRIOR TO OUR	DEAD	NA	1	N	Y
GRAY WHALE	EASTERN N PACIFIC	2018	5	27	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	PACIFIC	WA	DEAD	WHALE REPORTED TO HAVE AN ENTANGLEMENT LOCATED ON THE CENTER OF THE BODY AND ON THE TAIL WHILE TRAILING TWO BUOYS AND "CRAB POT GEAR". COMMERCIAL DUNGENESS CRAB GEAR WAS IDENTIFIED BY THE ROUND YELLOW TAG ON ONE BUOY BUT THE PHOTO QUALITY WAS POOR SO A NUMBER COULD NOT BE READ TO GET A FISHERMAN ID. NO GEAR REMOVED. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. ONE POOR-QUALITY PHOTO REVIEWED BY J. CARRETTA.	DEAD	NA	1	Y	Y
GRAY WHALE	EASTERN N PACIFIC-PCFG	2018	6	6	DUNGENESS CRAB POT FISHERY (WASHINGTON)	LINCOLN	OR	SI (PRORATE)	EXTREMELY EMACIATED WHALE LIVE-STRANDED AND SUBSEQUENTLY DIED. LARGE AREA OF ABRASION (116X30CM) ON LEFT DORSAL AND ACROSS BACK, JUST ANTERIOR TO HUMP, WITH MISSING SKIN AND NECROSIS AT MARGINS, VISIBLE BRUISING UNDER WIDEST POINT OF MISSING SKIN. ABRASION SKIN ON UPPER RIGHT SIDE AT SAME LEVEL AS LARGER ABRASION. WHALE LICE ALL OVER BODY, INCLUDING DORSAL SURFACE OF FLUKE (UNUSUAL--SUSPECT UNABLE TO LIFT FLUKES PROPERLY). AT LEAST 4 SHATTERED VERTEBRAE AT SITE, APPROXIMATELY 1 MONTH'S WORTH OF HEALING IN TISSUES. AREAS OF INTERNAL INFECTION AT TRAUMA SITE. SUSPECT ANIMAL HIT BY SHIP, WITH SUBSEQUENT INFECTION, EMACIATION AND LIVE STRANDING.	SI (PRORATE)	L10	0.75	Y	Y
GRAY WHALE	EASTERN N PACIFIC-PCFG	2018	6	28	VESSEL STRIKE	GRAYS HARBOR	WA	SI	BOATER VIDEO OF A GRAY WHALE TRAILING A SINGLE BUOY, WHICH ONLY APPEARS AS WHALE IS DIVING. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. VIDEO REVIEWED BY J. CARRETTA.	DEAD	NA	1	N	Y
GRAY WHALE	EASTERN N PACIFIC	2018	7	9	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	CURRY	OR	SI (PRORATE)	BOATER VIDEO OF A GRAY WHALE TRAILING A SINGLE BUOY, WHICH ONLY APPEARS AS WHALE IS DIVING. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. VIDEO REVIEWED BY J. CARRETTA.	SI (PRORATE)	L10	0.75	Y	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

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GRAY WHALE	EASTERN N PACIFIC-PCFG	2018	8	26	VESSEL STRIKE	SITKA	AK	NSI	A GRAY WHALE WAS STRUCK BY A 24 FT PRIVATE RECREATIONAL CABIN CRUISER AT 2.4 KNOTS. THE BOAT WAS JOLTED BY THE IMPACT, AFTER WHICH THE WHALE SUBMERGED IMMEDIATELY. THE WHALE WAS SEEN RESURFACING WITHIN A MINUTE OF THE STRIKE, BUT THERE WAS NO INDICATION OF INJURY TO THE ANIMAL. THE VESSEL DID NOT INCUR ANY DAMAGE.	NSI	L6C	0	N	N
GUADALUPE FUR SEAL	MEXICO	2015	5	11	SHOOTING	MARIN	CA	DEAD	XRAYS REVEALED 7 PIECES OF BUCKSHOT THROUGHOUT BODY, WITH ONE THAT APPEARS TO BE LODGED IN ANIMAL'S HEART.	DEAD	NA	1	N	Y
GUADALUPE FUR SEAL	MEXICO	2015	6	1	MARINE DEBRIS	SANTA CRUZ	CA	DEAD	GREEN TWINE ON RIGHT FRONT FLIPPER	DEAD	NA	1	N	Y
GUADALUPE FUR SEAL	MEXICO	2015	6	10	MARINE DEBRIS	MARIN	CA	SI	LETHARGIC ANIMAL WITH ABRASION AROUND NECK FROM OLD ENTANGLEMENT. ANIMAL DIED IN REHAB	DEAD	NA	1	N	Y
GUADALUPE FUR SEAL	MEXICO	2015	7	10	GILLNET FISHERY	SANTA CRUZ	CA	DEAD	HEAVY COLONIZATION BY BARNACLES, LARGE NETTING ENTANGLEMENT AROUND NECK, EYES BULGING, HEAVILY DECOMPOSED INTESTINES, GAS-FILLED, IMMATURE SEXUAL ORGANS. CAUSE OF DEATH ENTANGLEMENT.	DEAD	NA	1	Y	Y
GUADALUPE FUR SEAL	MEXICO	2015	12	28	HAWAII LONGLINE SHALLOW SET FISHERY	OFFSHORE	CA	NSI	HOOKED IN MOUTH (LOWER LEFT JAW) BY 18/0 OFFSET FLAT CIRCLE HOOK (DIAMETER NOT MEASURED). ANIMAL WAS STRUGGLING AS IT WAS BROUGHT ALONG VESSEL, WHERE AFTER SEVERAL ATTEMPTS, IT WAS SUCCESSFULLY DEHOOKED: NO GEAR LEFT ON ANIMAL. SOME BLEEDING OBSERVED, BUT JAW WAS INTACT. ANIMAL WAS SEEN PORPOISING AFTER RELEASE. THE HOOK WAS NOT BENT AND NO TISSUE WAS LEFT ON THE HOOK. CAPTURE MYOPATHY EFFECTS SEEM UNLIKELY.	NSI	P5C	0	N	N
GUADALUPE FUR SEAL	MEXICO	2016	4	22	MARINE DEBRIS	MONTEREY	CA	SI	EMACIATED, LETHARGIC, THICK SINGLE BRAIDED PLASTIC LINE/NETTING AROUND NECK. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
GUADALUPE FUR SEAL	MEXICO	2016	4	25	MARINE DEBRIS	MONTEREY	CA	SI	EMACIATED, ORANGE NYLON NETTING CUTTING INTO NECK AND WRAPPED LOOSELY AROUND UPPER BODY.	DEAD	NA	1	N	Y
GUADALUPE FUR SEAL	MEXICO	2016	4	27	MARINE DEBRIS	MARIN	CA	SI	EMACIATED, THICK BLACK ROPE WAS AROUND NECK BUT REMOVED BY MEMBER OF PUBLIC (FIRE DEPARTMENT?) PRIOR TO RESCUE TEAM ARRIVING. PUBLIC NETTED OUT OF THE WATER. TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P7B	0	N	N
GUADALUPE FUR SEAL	MEXICO	2016	5	22	MARINE DEBRIS	SAN LUIS OBISPO	CA	DEAD	EMACIATED, DECOMPOSING CARCASS WITH ENTANGLEMENT.	DEAD	NA	1	N	Y
GUADALUPE FUR SEAL	MEXICO	2016	5	27	UNIDENTIFIED FISHERY INTERACTION	NA	WA	DEAD	REPORTED FRESH DEAD FROM 'SHILOH BEACH'. EXAM BOTH INTERNAL AND EXTERNAL. SUSPECTED ENTANGLEMENT OR ENTRAPMENT. BASED ON CIRCULAR LINEAR HEMORRHAGE AT HIND FLIPPER/ LOWER PELVIS AREA AS WELL AS BOTH FRONT FLIPPERS.	DEAD	NA	1	Y	Y
GUADALUPE FUR SEAL	MEXICO	2016	5	28	UNIDENTIFIED FISHERY INTERACTION	SAN MATEO	CA	DEAD	TWO LOOPS OF ROPE NET FOUND AROUND THE NECK JUST ABOVE THE SHOULDERS. INTRUSION INTO MUSCLE ALMOST COMPLETE CIRCUMFERENTIALLY, EXCEPT FOR A 1 INCH SECTION MIDLINE VENTRALLY	DEAD	NA	1	Y	Y
GUADALUPE FUR SEAL	MEXICO	2016	5	29	MARINE DEBRIS	SONOMA	CA	SI	PUBLIC REPORTEDLY REMOVED AN ENTANGLEMENT FROM AN EMACIATED ANIMAL. TREATED AT REHAB FACILITY AND RELEASED.	NSI	P7B	0	N	N
GUADALUPE FUR SEAL	MEXICO	2016	5	29	MARINE DEBRIS	MONTEREY	CA	SI	MEMBER OF PUBLIC DISENTANGLED EMACIATED ANIMAL. TREATED AT REHAB FACILITY AND RELEASED. EMACIATED, LARGE YELLOW ENTANGLEMENT AROUND LOWER NECK, SHOULDERS AND FLIPPERS. ANIMAL STRANDED WITH BLUE FLIPPER TAGS. UNCLEAR IF BLUE FLIPPER TAGS WERE FROM RESEARCH-RELATED ACTIVITY OR REPRESENT A PREVIOUSLY-STRANDED HUMAN-RELATED CASE. TREATED AT REHAB FACILITY AND RELEASED WITH NEW ORANGE FLIPPER TAGS. TREATED AS SERIOUS INJURY BECAUSE PROBABLE RE-STRAND.	SI	P7B	1	N	Y
GUADALUPE FUR SEAL	MEXICO	2016	6	15	MARINE DEBRIS	MENDOCINO	CA	DEAD	CARCASS COLLECTED, WITH ENTANGLEMENT, BUT ONLY SKULL AND BACULUM RETAINED. NO DETAILS ON TYPE OF ENTANGLEMENT.	DEAD	NA	1	N	Y
GUADALUPE FUR SEAL	MEXICO	2017	6	9	MARINE DEBRIS	CLATSOP	OR	DEAD	HARD PLASTIC RING AROUND NECK.	DEAD	NA	1	N	Y

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GUADALUPE FUR SEAL	MEXICO	2017	6	10	UNIDENTIFIED FISHERY INTERACTION	SAN MATEO	CA	SI	ANIMAL HAD ORANGE NETTING ENTANGLED AROUND MOST OF BODY, BUT NOT CUTTING INTO TISSUE. TREATED AND RELEASED FROM REHAB FACILITY.	NSI	P7B	0	Y	N
GUADALUPE FUR SEAL	MEXICO	2017	6	10	MARINE DEBRIS	SONOMA	CA	DEAD	ENTANGLED ANIMAL FOUND, DETAILS ON NATURE OF ENTANGLEMENT LACKING.	DEAD	NA	1	N	Y
GUADALUPE FUR SEAL	MEXICO	2017	6	12	MARINE DEBRIS	SAN MATEO	CA	DEAD	ANIMAL ENTANGLED IN BALLOON RIBBON MATERIAL.	DEAD	NA	1	N	Y
GUADALUPE FUR SEAL	MEXICO	2017	6	19	MARINE DEBRIS	MONTEREY	CA	SI	EMACIATED ANIMAL FOUND WITH ENTANGLEMENT SCAR, DIED AT REHAB FACILITY.	DEAD	NA	1	N	Y
GUADALUPE FUR SEAL	MEXICO	2017	6	28	MARINE DEBRIS	SAN LUIS OBISPO	CA	DEAD	CARCASS FOUND WITH THICK DARK GREEN NETTING ENTANGLED AROUND HEAD, CAUSING TWO DEEP LACERATIONS.	DEAD	NA	1	N	Y
GUADALUPE FUR SEAL	MEXICO	2017	11	1	HAWAII LONGLINE SHALLOW SET FISHERY	OFFSHORE	CA	SI	ANIMAL HOOKED IN HEAD AND ACTIVELY STRUGGLING. CREW PULLED ANIMAL TO WITHIN 10 FEET OF VESSEL, WHERE THE LINE WAS CUT. THE HOOK AND AT LEAST 5-10 FEET OF LEADER LEFT ON THE ANIMAL.	SI	P6	1	Y	Y
GUADALUPE FUR SEAL	MEXICO	2017	11	17	HAWAII LONGLINE SHALLOW SET FISHERY	OFFSHORE	CA	NSI	ANIMAL HOOKED IN MOUTH. GEAR PULLED FREE OF ANIMAL AS IT WAS BEING PULLED TOWARD THE VESSEL. NO TISSUE LOCATED ON RETRIEVED HOOK.	NSI	P5C	0	N	N
GUADALUPE FUR SEAL	MEXICO	2017	12	3	HAWAII LONGLINE SHALLOW SET FISHERY	OFFSHORE	CA	SI	ANIMAL HOOKED IN RIGHT FRONT FLIPPER. STRUGGLED AS IT WAS BEING PULLED TOWARDS VESSEL. LINE WAS CUT, HOOK AND 20 FEET OF MONOFILAMENT REMAINED ON ANIMAL.	SI	P6	1	Y	Y
GUADALUPE FUR SEAL	MEXICO	2018	5	23	HOOK AND LINE FISHERY	ORANGE	CA	SI	UNDERWEIGHT ANIMAL ENTANGLED IN FISHING LINE. ANIMAL WAS RESCUED BY PMMC ON 5/23/18 IN NEWPORT BEACH AND TRANSFERRED TO SEA WORLD ON THE SAME DAY. REHABILITATED IN COORDINATION WITH NOAA FISHERIES. ANIMAL RELEASED WITH SPOT 6311A SATELLITE TRANSMITTER.	NSI	P6	0	N	N
GUADALUPE FUR SEAL	MEXICO	2018	6	15	GILLNET FISHERY	MARIN	CA	SI	LARGE GREEN NET ENTANGLEMENT AROUND HEAD AND NECK RESULTING IN LACERATION BY EARS. ANIMAL WAS EMACIATED. NO DETAILS GIVEN ON RESCUE / REHAB EFFORTS.	SI	P8A	1	Y	Y
GUADALUPE FUR SEAL	MEXICO	2018	6	16	GILLNET FISHERY	SAN MATEO	CA	SI	EMACIATED ANIMAL FOUND WITH LARGE AMOUNT OF GREEN NYLON NETTING AROUND NECK. NO DETAILS GIVEN ON RESCUE / REHAB EFFORTS.	SI	P8A	1	Y	Y
GUADALUPE FUR SEAL	MEXICO	2018	7	23	GILLNET FISHERY	MENDOCINO	CA	SI	GILLNET FISHERY DISENTANGLEMENT BY THE PUBLIC. THIS ANIMAL WAS DISENTANGLED BY THE PUBLIC AND IT FLED THE BEACH SHORTLY AFTER. THE INCIDENT WAS FILMED AND UPLOADED TO THE FB PAGE OF THE WESTPORT CAMPGROUND AND RV. VIDEO LINK NOT AVAILABLE AT TIME OF SERIOUS INJURY ASSESSMENT. NO DETAILS ON SEVERITY OF ENTANGLEMENT, CONDITION OF ANIMAL, OR IF GEAR REMAINED ON ANIMAL.	SI	P6	1	Y	Y
GUADALUPE FUR SEAL	MEXICO	2018	8	31	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	DEAD	LINE ENTANGLEMENT AROUND NECK. CARCASS TRANSFERRED TO CALIFORNIA ACADEMY OF SCIENCES. A DEAD HARBOR PORPOISE WAS FOUND. A NECROPSY REVEALED IMPRESSIONS CONSISTENT WITH NET ENTANGLEMENT ON THE ANIMAL.	DEAD	NA	1	Y	Y
HARBOR PORPOISE	WASHINGTON INLAND WATERS	2014	1	3	UNIDENTIFIED FISHERY INTERACTION	JEFFERSON	WA	DEAD	A HARBOR PORPOISE WAS FOUND DEAD WITH BLOODY EYES, LINE MARKS AND INDENTATIONS ALONG THE ANTERIOR EDGE OF THE FLIPPERS, CUTS AND INDENTATIONS ON THE FLUKE AND PEDUNCLE. HEMORRHAGING ON THE BODY AND ORGANS, FOAM IN LUNGS, AND OTHERWISE EXCELLENT BODY CONDITION. THE REPORTING PARTY BELIEVES THIS EVENT TO BE A FISHERY RELATED MORTALITY AND THE EVIDENCE SUPPORTS THIS CONCLUSION. THE SPECIFIC FISHERY IS	DEAD	NA	1	Y	Y
HARBOR PORPOISE	N OREGON-WA COAST	2014	5	16	UNIDENTIFIED FISHERY INTERACTION	CLATSOP	OR	DEAD		DEAD	NA	1	Y	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
HARBOR PORPOISE	N OREGON-WA COAST	2014	5	16	UNIDENTIFIED FISHERY INTERACTION	CLATSOP	OR	DEAD	A HARBOR PORPOISE WAS FOUND DEAD WITH A SERIES OF PARALLEL MARKS ALONG ITS PEDUNCLE, BLOODY FOAM IN LUNGS, HEMORRHAGING THROUGHOUT BODY AND ORGANS, AND A BROKEN RIB. THE REPORTING PARTY BELIEVES THIS EVENT TO BE A FISHERIES RELATED MORTALITY AND THE EVIDENCE SUPPORTS THIS CONCLUSION. THE SPECIFIC FISHERY IS UNKNOWN.	DEAD	NA	1	Y	Y
HARBOR PORPOISE	N OREGON-WA COAST	2014	5	19	UNIDENTIFIED FISHERY INTERACTION	PACIFIC	WA	DEAD	A HARBOR PORPOISE WAS FOUND DEAD WITH A SERIES OF PARALLEL CUTS ON ITS FLUKE. THE DORSAL FIN AND RIGHT FLIPPER WERE CUT OFF. THERE WAS TREMENDOUS HEMORRHAGING THROUGHOUT THE BODY AND HEAD. THE REPORTING PARTY BELIEVES THIS EVENT TO BE A FISHERIES RELATED MORTALITY AND THE EVIDENCE SUPPORTS THIS CONCLUSION. THE SPECIFIC FISHERY IS UNKNOWN.	DEAD	NA	1	Y	Y
HARBOR PORPOISE	SAN FRANCISCO-RUSSIAN RIVER	2014	7	24	UNIDENTIFIED NET FISHERY	SAN MATEO	CA	DEAD	SKULL HAS LARGE DEPRESSION FRACTURE WITH BONE LOSS OVER LEFT REAR OF SKULL. ALSO, DORSAL FIN, FLIPPERS, AND TAIL FLUKES APPEAR TO BE CUT OFF. VERY NEAT EDGES TO ALL FLUKES, FINS, AND FLIPPERS. NET MARKS ON CARCASS.	DEAD	NA	1	Y	Y
HARBOR PORPOISE	N CALIFORNIA-S OREGON	2014	8	28	VESSEL STRIKE	COOS	OR	DEAD	A HARBOR PORPOISE WAS FOUND WITH MULTIPLE SEVERE PROPELLOR WOUNDS AND THE CAUDAL PEDUNCLE WAS ALSO CUT OFF. THE PORPOISE WAS OTHERWISE IN GOOD BODY CONDITION.	DEAD	NA	1	N	Y
HARBOR PORPOISE	WASHINGTON INLAND WATERS	2014	9	21	UNIDENTIFIED NET FISHERY	ISLAND	WA	DEAD	MONOFILAMENT IMPRESSIONS AROUND THE HEAD AND ROSTRUM.	DEAD	NA	1	Y	Y
HARBOR PORPOISE	N OREGON-WA COAST	2014	11	5	UNIDENTIFIED FISHERY INTERACTION	PACIFIC	WA	DEAD	A HARBOR PORPOISE WAS FOUND DEAD WITH A SERIES OF SMALL, EVENLY SPACED SLASHES ON THE LEFT SIDE OF ITS DORSAL FIN. SMALL CUTS ON ITS RIGHT SIDE. ROPE INDENTATIONS AROUND THE PEDUNCLE AND HEMORRHAGING THROUGHOUT THE BODY. THE ANIMAL WAS IN EXCELLENT BODY CONDITION. THE REPORTING PARTY BELIEVES THIS EVENT TO BE A FISHERIES RELATED MORTALITY AND THE EVIDENCE SUPPORTS THIS CONCLUSION. THE SPECIFIC FISHERY IS UNKNOWN.	DEAD	NA	1	Y	Y
HARBOR PORPOISE	NORTHERN OREGON-WASHINGTON COAST	2015	4	2	UNIDENTIFIED FISHERY INTERACTION	CLATSOP	OR	DEAD	A HARBOR PORPOISE WAS FOUND DEAD WITH SIGNS THAT IT HAD BEEN ENTPANGLED / ENTRAPPED BY FISHERY GEAR. THE CARCASS EXHIBITED INDENTATIONS AND ABRASIONS ON ITS FLUKE, HEMORRHAGE THROUGHOUT THE BODY, AND EXTENSIVE BLOODY FOAM IN THE MOUTH, TRACHEA, AND LUNGS.	DEAD	NA	1	Y	Y
HARBOR PORPOISE	WASHINGTON INLAND WATERS	2015	5	13	VESSEL STRIKE	SAN JUAN	WA	DEAD	A HARBOR PORPOISE WAS FOUND FRESHLY DEAD WITH 8 SUBSTANTIAL TRANSVERSE CUTS ON ITS DORSAL SIDE THAT APPEARED TO BE A PROPELLER INJURY.	DEAD	NA	1	N	Y
HARBOR PORPOISE	NORTHERN OREGON-WASHINGTON COAST	2015	6	3	UNIDENTIFIED FISHERY INTERACTION	CLATSOP	OR	DEAD	A SUBADULT FEMALE HARBOR PORPOISE WAS FOUND DEAD. THE CARCASS EXHIBITED LINEAR MARKS ON THE VENTRAL PEDUNCLE AT THE FLUKE, HEMORRHAGE ON BOTH SIDE OF THE HEAD AND UNDER THE JAW, AND FOAM IN THE LUNGS.	DEAD	NA	1	Y	Y
HARBOR PORPOISE	NORTHERN OREGON-WASHINGTON COAST	2015	7	27	UNIDENTIFIED FISHERY INTERACTION	PACIFIC	WA	DEAD	A HARBOR PORPOISE CARCASS WAS FOUND IN OCEAN PARK, WA. A NECROPSY WAS CONDUCTED AND A SUBSTANTIAL AMOUNT OF WHITE FOAM WAS PRESENT IN BRONCHI, THERE WERE RIB MARKS ON THE RIGHT LUNG AND LIVER, THERE WERE SEVERAL GOUGES ON THE VENTRAL PEDUNCLE AND FLUKE, AND DAMAGE TO THE PORPOISE'S EYES.	DEAD	NA	1	Y	Y
HARBOR PORPOISE	NORTHERN OREGON-WASHINGTON COAST	2015	8	2	UNIDENTIFIED FISHERY INTERACTION	PACIFIC	WA	DEAD	A HARBOR PORPOISE WAS FOUND DEAD. A NECROPSY IDENTIFIED BLOODY FOAM IN THE TRACHEA; HEMORRHAGING IN THE HEAD, BODY, AND ORGANS; AND INDENTATIONS ON THE DORSAL AND VENTRAL PEDUNCLE.	DEAD	NA	1	Y	Y
HARBOR PORPOISE	NORTHERN OREGON-WASHINGTON COAST	2015	8	19	UNIDENTIFIED FISHERY INTERACTION	CLATSOP	OR	DEAD	A HARBOR PORPOISE WAS FOUND DEAD AND IN GOOD BODY CONDITION WITH WHITE FOAM IN BOTH LUNGS, RIB MARKS ON ITS INTERNAL ORGANS, AND ODD INDENTATIONS ON THE DORSAL PEDUNCLE.	DEAD	NA	1	Y	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
HARBOR PORPOISE	MONTEREY	2015	8	26	HOOK AND LINE FISHERY	MONTEREY	CA	DEAD	FRESHLY-DEAD PORPOISE FOUND FLOATING IN HARBOR. FISHING LINE STUCK IN MOUTH.	DEAD	NA	1	N	Y
HARBOR PORPOISE	WASHINGTON INLAND WATERS	2015	10	14	UNIDENTIFIED FISHERY INTERACTION	KITSAP	WA	DEAD	AN ADULT MALE HARBOR PORPOISE WAS DISCOVERED DEAD. IT APPEARED THAT THE ANIMAL DIED AS A RESULT OF A FISHERY INTERACTION (ENTANGLEMENT AND GAFFING). THE ANIMAL EXHIBITED MULTIPLE LINEAR IMPRESSIONS THAT TURNED INTO LACERATIONS AT THE MOUTH, ROSTRUM, FLUKE, DORSAL FIN, AND FLIPPER. THERE WERE THREE PUNCTURES ON THE ANIMAL'S LEFT SIDE, ONE OF WHICH TRACKED INTO THE BRAIN. NECROPSY SHOWED THAT THE PRIMARY CAUSE OF DEATH APPEARED TO BE GAFFING. THERE WERE ACTIVE FISHERIES OCCURRING AT THE TIME OF THIS STRANDING.	DEAD	NA	1	Y	Y
HARBOR PORPOISE	WASHINGTON INLAND WATERS	2015	11	4	UNIDENTIFIED FISHERY INTERACTION	KITSAP	WA	DEAD	AN ADULT FEMALE HARBOR PORPOISE WAS FOUND DEAD WITH LINEAR LACERATIONS ON BOTH SIDES OF THE HEAD. THERE WAS ALSO A CLEANLY CUT FILET REMOVED FROM THE ANIMAL AND THE RIGHT BACKSTRAP WAS ALSO REMOVED. THIS IS ONE OF THREE PORPOISE FOUND AT THE SAME TIME AND LOCATION, ALL BELIEVED TO HAVE BEEN ENTANGLED IN FISHING GEAR.	DEAD	NA	1	Y	Y
HARBOR PORPOISE	WASHINGTON INLAND WATERS	2015	11	4	UNIDENTIFIED FISHERY INTERACTION	KITSAP	WA	DEAD	AN ADULT FEMALE HARBOR PORPOISE WAS FOUND DEAD. THERE WERE LINEAR LACERATIONS ON BOTH SIDES OF THE HEAD AND DOWN BOTH SIDES OF ITS BODY, WITH MORE LACERATIONS ON THE RIGHT SIDE OF THE BODY. THERE WERE ALSO IMPRESSIONS, NICKS, AND CUTS ON THE FLUKE. THIS IS ONE OF THREE PORPOISE FOUND AT THE SAME TIME AND LOCATION, ALL BELIEVED TO HAVE BEEN ENTANGLED IN FISHING GEAR.	DEAD	NA	1	Y	Y
HARBOR PORPOISE	WASHINGTON INLAND WATERS	2015	11	4	UNIDENTIFIED FISHERY INTERACTION	KITSAP	WA	DEAD	AN ADULT FEMALE HARBOR PORPOISE WAS FOUND DEAD, WITH LACERATIONS AND IMPRESSIONS ON BOTH SIDES OF ITS HEAD AND BODY. THERE WERE NICKS AND LACERATIONS ON BOTH THE LEFT AND RIGHT FLIPPER. THIS IS ONE OF THREE PORPOISE FOUND AT THE SAME TIME AND LOCATION, ALL BELIEVED TO HAVE BEEN ENTANGLED IN FISHING GEAR.	DEAD	NA	1	Y	Y
HARBOR PORPOISE	SAN FRANCISCO-RUSSIAN RIVER	2015	11	15	GILLNET FISHERY	MARIN	CA	SI	ENTANGLEMENT SCARS, DIED AFTER TRANSFER TO REHAB FACILITY.	DEAD	NA	1	Y	Y
HARBOR PORPOISE	NORTHERN OREGON - WASHINGTON COAST	2016	2	16	UNIDENTIFIED NET FISHERY	NA	OR	DEAD	A HARBOR PORPOISE WAS FOUND STRANDED IN A STATE OF MODERATE DECOMPOSITION. THE PORPOISE DISPLAYED EVENLY SPACED INDENTATIONS ON ITS FLUKE AND A SUBDERMAL HEMATOMA AT THE BASE OF THE	DEAD	NA	1	Y	Y
HARBOR PORPOISE	NORTHERN OREGON - WASHINGTON COAST	2016	5	22	UNIDENTIFIED NET FISHERY	NA	OR	DEAD	A HARBOR PORPOISE WAS FOUND STRANDED AND IN A STATE OF MODERATE DECOMPOSITION. THE CARCASS DISPLAYED LONG KNIFE CUTS ON THE BODY AND THE DORSAL FIN WAS CUT OFF. THERE WAS HEMORRHAGE THROUGHOUT THE HEAD AND BODY, AND SUBSTANTIAL SUBSCAPULAR HEMATOMA. THE ANIMAL HAD A FISH LODGED IN ITS THROAT AND WAS IN GOOD BODY CONDITION.	DEAD	NA	1	Y	Y
HARBOR PORPOISE	NORTHERN OREGON - WASHINGTON COAST	2016	7	3	UNIDENTIFIED NET FISHERY	NA	OR	DEAD	A HARBOR PORPOISE WAS DISCOVERED FRESH DEAD WITH TWO LINEAR MARKS ALONG THE DORSAL PEDUNCLE IN ADDITION TO OTHER POTENTIAL NET MARKS. A NECROPSY WAS CONDUCTED, AND THE PORPOISE WAS DETERMINED TO HAVE ASPHYXIATED ON FISH, LIKELY WHILE ENTANGLED IN FISHING GEAR.	DEAD	NA	1	Y	Y
HARBOR PORPOISE	NORTHERN OREGON - WASHINGTON COAST	2016	7	16	UNIDENTIFIED NET FISHERY	NA	OR	DEAD	A HARBOR PORPOISE WAS DISCOVERED STRANDED, IN ADVANCED DECOMPOSITION. A FISH WAS LODGED IN THE ANIMAL'S THROAT, AND THE CARCASS DISPLAYED DISTINCTLY PATTERNED MARKS ON BODY, GASHERS, AND EXTENSIVE HEMORRHAGE THROUGHOUT BODY. CARCASS WAS OTHERWISE IN GOOD BODY CONDITION.	DEAD	NA	1	Y	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
HARBOR PORPOISE	WASHINGTON INLAND WATERS	2016	10	31	GILLNET FISHERY	NA	WA	DEAD	A HARBOR PORPOISE CALF WAS FOUND STRANDED AND FRESHLY DEAD. THE ANIMAL DISPLAYED EVIDENCE OF NET ENTANGLEMENT, AND THERE WERE CLEAR LINE IMPRESSIONS AROUND THE ANIMAL'S HEAD, RIGHT FLIPPER, AND LEADING AND TRAILING EDGES OF FLUKES. GILLNET FISHING WAS NOTED TO BE OCCURRING IN THE	DEAD	NA	1	Y	Y
HARBOR PORPOISE	WASHINGTON INLAND WATERS	2016	11	7	GILLNET FISHERY	NA	WA	DEAD	A HARBOR PORPOISE WAS ENTANGLED AND KILLED IN A GILLNET	DEAD	NA	1	Y	Y
HARBOR PORPOISE	NORTHERN OREGON - WASHINGTON COAST	2016	12	11	UNIDENTIFIED FISHERY INTERACTION	NA	OR	DEAD	A HARBOR PORPOISE WAS FOUND IN A STATE OF MODERATE DECOMPOSITION AND NECROPSIED. THE ANIMAL'S LEFT PECTORAL FIN WAS AMPUTATED. THERE WAS ALSO TOOTH DAMAGE, FOAM IN THE TRACHEA, AND HEMORRHAGE THROUGHOUT THE BODY. OTHERWISE, THE ANIMAL WAS IN EXCELLENT BODY CONDITION.	DEAD	NA	1	Y	Y
HARBOR PORPOISE	NORTHERN OREGON - WASHINGTON COAST	2017	3	1	UNIDENTIFIED FISHERY INTERACTION	CLATSOP	OR	DEAD	PARTS MISSING AND APPEARED CUT OFF (DORSAL FIN, FLIPPERS); MASSIVE HEMORRHAGE; DEEP PUNCTURES ON BODY; BROKEN RIBS; BLOODY FLUID IN THORACIC AND ABDOMINAL CAVITIES.	DEAD	NA	1	Y	Y
HARBOR PORPOISE	NORTHERN OREGON - WASHINGTON COAST	2017	4	28	UNIDENTIFIED FISHERY INTERACTION	PACIFIC	WA	DEAD	FOAM IN LUNGS; HEAVY HEMORRHAGE; BLOODY FLUID IN THORACIC CAVITY; TEETH MISSING; LARGE FISH IN THROAT AS WELL AS ONE IN STOMACH; POSSIBLE ASPHYXIATION AS WELL AS FISHERIES INTERACTION.	DEAD	NA	1	Y	Y
HARBOR PORPOISE	NORTHERN OREGON - WASHINGTON COAST	2017	4	29	UNIDENTIFIED FISHERY INTERACTION	PACIFIC	WA	DEAD	HEAVY HEMORRHAGE; BROKEN JAW; LINE MARKS ON STOCK/TAIL; THE ANIMAL HAD GOOD BODY CONDITION.	DEAD	NA	1	Y	Y
HARBOR PORPOISE	NORTHERN OREGON - WASHINGTON COAST	2017	5	3	UNIDENTIFIED FISHERY INTERACTION	PACIFIC	WA	DEAD	HEAVY TRAUMA/HEMORRHAGE AROUND HEAD AND THORAX; CUTS ON BODY; THE PORPOISE HAD EXCELLENT BODY CONDITION.	DEAD	NA	1	Y	Y
HARBOR PORPOISE	NORTHERN OREGON - WASHINGTON COAST	2017	5	4	UNIDENTIFIED FISHERY INTERACTION	PACIFIC	WA	DEAD	FLUKE CUT OFF; TEETH MISSING; LINEAR MARKS FROM THORAX TO HEAD; HEMORRHAGE; FOAM IN TRACHEA; FETUS HAD SUBSTANTIAL HEMORRHAGE AND BLOODY FLUID IN THORAX AND ABDOMINAL CAVITIES; GOOD BODY CONDITION.	DEAD	NA	1	Y	Y
HARBOR PORPOISE	NORTHERN OREGON - WASHINGTON COAST	2017	5	18	UNIDENTIFIED FISHERY INTERACTION	PACIFIC	WA	DEAD	SUSPICIOUS, DEEP 3.5 CM DIA. HOLE IN PEDUNCLE (FROM GAFF?); FLUKES COMPLETELY GONE; DAMAGE/INDENTATIONS IN BONE ALONG JAW EDGES; HEMORRHAGE IN JAW BONES; PORPOISE VERY DECOMPOSED AND SCAVENGED.	DEAD	NA	1	Y	Y
HARBOR PORPOISE	NORTHERN OREGON - WASHINGTON COAST	2017	5	22	UNIDENTIFIED FISHERY INTERACTION	PACIFIC	WA	DEAD	LEFT FLUKE AND FLIPPER CUT OFF; HEMORRHAGE IN BODY; TOOTH INDENTATIONS FROM UPPER JAW ALONG GUMS IN LOWER JAW; THE PORPOISE HAD EXCELLENT BODY CONDITION.	DEAD	NA	1	Y	Y
HARBOR PORPOISE	NORTHERN OREGON - WASHINGTON COAST	2017	6	9	UNIDENTIFIED FISHERY INTERACTION	PACIFIC	WA	DEAD	HEMORRHAGE, HEMATOMAS, LINE MARKS, SLASHES, AND TOOTH DAMAGE	DEAD	NA	1	Y	Y
HARBOR PORPOISE	WASHINGTON INLAND WATERS	2017	8	30	UNIDENTIFIED FISHERY INTERACTION	PIERCE	WA	DEAD	LINEAR LACERATION AROUND TOP OF JAW AND MATCHING LACERATION RIGHT SIDE LOWER JAW. LINEAR LACERATION ON BOTH PECTORAL FINS AS WELL AS LACERATION FLUKE AND ONE AT BASE OF DORSAL FIN.	DEAD	NA	1	Y	Y
HARBOR PORPOISE	WASHINGTON INLAND WATERS	2017	10	28	GILLNET FISHERY	KITSAP	WA	DEAD	LINEAR LACERATIONS AND IMPRESSION AROUND HEAD THROUGH UPPER JAW AT GAPE AND AROUND RIGHT PECTORAL FIN.	DEAD	NA	1	Y	Y
HARBOR PORPOISE	WASHINGTON INLAND WATERS	2017	10	30	GILLNET FISHERY	KING	WA	DEAD	MONOFILAMENT LINE MARKINGS ON ROSTRUM, LINE WRAPS AROUND RIGHT PECTORAL FLIPPER AND DORSAL FIN (CUT INTO MID-TRAILING EDGE OF DORSAL FIN APPROX 1.5 INCHES LONG, PARALLEL TO BODY, WITH CORRESPONDING WRAP MARK ON LEADING EDGE OF FIN). LINE WRAP IMPRESSIONS ON BOTH SIDES OF FLUKE WITH ABRASIONS ALONG TRAILING EDGES.	DEAD	NA	1	Y	Y
HARBOR PORPOISE	SAN FRANCISCO-RUSSIAN RIVER	2018	4	11	GILLNET FISHERY	ALAMEDA	CA	DEAD	MANDIBLE HAD BEEN ENTANGLED BY AN UNKNOWN OBJECT. THE OBJECT WAS ABSENT AT THE TIME OF EXAMINATION, BUT THE ENTANGLEMENT CAUSED SEVERE DAMAGE, INCLUDING THE LOSS OF SEVERAL TEETH AND A FRACTURE OF THE RIGHT HEMI MANDIBLE.	DEAD	NA	1	Y	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

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HARBOR PORPOISE	N OREGON-WA COAST	2018	5	14	GILLNET FISHERY	CLATSOP	OR	DEAD	THE PORPOISE HAD GOOD EXTERNAL BODY CONDITION AND HAD NUMEROUS MARKS ON BODY SUGGESTING FISHERY INTERACTION AND HEMORRHAGING ON BODY. FOAM IN LUNGS.	DEAD	NA	1	Y	Y
HARBOR PORPOISE	N OREGON-WA COAST	2018	7	24	GILLNET FISHERY	CLATSOP	OR	DEAD	DEEP GASHES AND PUNCTURE WOUNDS. ANIMAL HAD ROPE MARKS AND CUTS ON TAIL STOCK AND HEMORRHAGE FROM HEAD TO ABDOMEN ON RIGHT SIDE. TAIL STOCK CUT OFF; HEMORRHAGE THROUGHOUT ANIMAL OTHERWISE THE PORPOISE HAD GOOD BODY EVIDENCE OF FISHERY ENTANGLEMENT. 15CM LACERATION PENETRATES FULL BLUBBER AND GOES INTO MUSCLE AND CAN FEEL RIBS BROKEN. MULTIPLE IMPRESSIONS AND LACERATION ACROSS ROSTRUM AND LOWER JAW; CRISS-CROSSES TO OTHER SIDE; ABRASIONS ON SNOUT; ~2CM SMALL CHUNK OUT OF THE LEFT FORE FLIPPER, LACERATION; IMPRESSIONS AROUND RIGHT FORE FLIPPER; IMPRESSION ON LEADING EDGE OF DORSAL FIN. EVIDENCE OF FISHERY ENTANGLEMENT: SEVERAL IMPRESSIONS AND LACERATIONS ON FIN, FLIPPERS, ROSTRUM, FLUKE. 15CM LACERATION ON RIGHT BODY CONSISTENT WITH SLICING. ALL COMMERCIAL FISHING CLOSED IN THE AREA AROUND THE TIME OF STRANDING. HOWEVER, THERE WAS TRIBAL FISHING IN THE AREA LINEAR IMPRESSIONS ON DORSAL FIN, ROSTRUM, AND LOWER JAW. ACTIVE FISHING IN AREA. CARCASS CONDITION WAS ROBUST, IMPLYING ACUTE DEATH	DEAD	NA	1	Y	Y
HARBOR PORPOISE	N OREGON-WA COAST	2018	8	6	GILLNET FISHERY	PACIFIC	WA	DEAD	THE PORPOISE HAD GOOD EXTERNAL BODY CONDITION AND HAD NUMEROUS MARKS ON BODY SUGGESTING FISHERY INTERACTION AND HEMORRHAGING ON BODY. FOAM IN LUNGS.	DEAD	NA	1	Y	Y
HARBOR PORPOISE	WASHINGTON INLAND WATERS	2018	10	21	GILLNET FISHERY	KITSAP	WA	DEAD	HARBOR SEAL CARCASS WITH HEAD CUT OFF NEONATE WITH UMBILICUS ILLEGALLY REMOVED FROM ROOKERY BY MEMBER OF THE PUBLIC	DEAD	NA	1	Y	Y
HARBOR PORPOISE	WASHINGTON INLAND WATERS	2018	10	24	GILLNET FISHERY	KITSAP	WA	DEAD	HARBOR SEAL CARCASS WITH HEAD CUT OFF NEONATE WITH UMBILICUS ILLEGALLY REMOVED FROM ROOKERY BY MEMBER OF THE PUBLIC	DEAD	NA	1	Y	Y
HARBOR SEAL	CALIFORNIA	2014	1	26	UNIDENTIFIED FISHERY INTERACTION	HUMBOLDT	CA	DEAD	NEONATE WITH UMBILICUS ILLEGALLY REMOVED FROM ROOKERY BY MEMBER OF THE PUBLIC	DEAD	NA	1	Y	Y
HARBOR SEAL	CALIFORNIA	2014	3	2	HARASSMENT	SAN DIEGO	CA	SI	A HARBOR SEAL WAS CAUGHT AND KILLED IN A RESEARCH GILLNET.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON COAST	2014	4	2	SCIENTIFIC RESEARCH	CLATSOP	OR	DEAD	NEONATE WITH UMBILICUS ILLEGALLY REMOVED FROM ROOKERY BY MEMBER OF THE PUBLIC	DEAD	NA	1	N	Y
HARBOR SEAL	CALIFORNIA	2014	4	4	HARASSMENT	MONTEREY	CA	SI	NEONATE WITH UMBILICUS ILLEGALLY REMOVED FROM ROOKERY BY MEMBER OF THE PUBLIC	SI	P14	1	N	Y
HARBOR SEAL	CALIFORNIA	2014	4	7	HARASSMENT	MARIN	CA	SI	NEONATE WITH UMBILICUS ILLEGALLY REMOVED FROM ROOKERY BY MEMBER OF THE PUBLIC	SI	P14	1	N	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2014	4	8	SHOOTING	LANE	OR	DEAD	A SUBADULT HARBOR SEAL WAS FOUND DEAD WITH A GUNSHOT WOUND. A BULLET FRAGMENT WAS FOUND IN THE ANIMAL'S NECK.	DEAD	NA	1	N	Y
HARBOR SEAL	CALIFORNIA	2014	4	15	HARASSMENT	MONTEREY	CA	SI	NEONATE WITH UMBILICUS ILLEGALLY REMOVED FROM ROOKERY BY MEMBER OF THE PUBLIC	SI	P14	1	N	Y
HARBOR SEAL	CALIFORNIA	2014	4	19	HARASSMENT	MARIN	CA	SI	NEONATE WITH UMBILICUS ILLEGALLY REMOVED FROM ROOKERY BY MEMBER OF THE PUBLIC	SI	P14	1	N	Y
HARBOR SEAL	CALIFORNIA	2014	4	25	HARASSMENT	SAN MATEO	CA	SI	NEONATE WITH UMBILICUS ILLEGALLY REMOVED FROM ROOKERY BY MEMBER OF THE PUBLIC	SI	P14	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2014	4	25	UNIDENTIFIED FISHERY INTERACTION	WHATCOM	WA	DEAD	A MUMMIFIED / SKELETONIZED HARBOR SEAL WAS FOUND ENTANGLED IN DERELICT GILLNET GEAR.	DEAD	NA	1	Y	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2014	5	3	SHOOTING	CLATSOP	OR	DEAD	A HARBOR SEAL WAS FOUND DEAD WITH BULLET HOLES IN ITS BODY AND EXTENSIVE HEMORRHAGING. A NECROPSY WAS CONDUCTED.	DEAD	NA	1	N	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2014	5	14	SHOOTING	CLATSOP	OR	DEAD	A HARBOR SEAL WAS FOUND DEAD WITH BULLET HOLES IN ITS BODY AND EXTENSIVE HEMORRHAGING. A NECROPSY WAS CONDUCTED AND A PELLET WAS COLLECTED FROM A BULLET WOUNDS.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2014	5	14	MARINE DEBRIS	SAN JUAN	WA	SI	A HARBOR SEAL WAS REPORTED TO BE ENTANGLED IN WHAT APPEARS TO BE A PACKING BAND.	SI	P8A	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2014	5	23	MARINE DEBRIS	SAN JUAN	WA	SI	A HARBOR SEAL WAS REPORTED TO BE ENTANGLED IN ORANGE / RED THICK ROPE WRAPPED AROUND THE NECK TO THE MIDDLE OF THE ANIMAL'S BACK.	SI	P8A	1	N	Y

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HARBOR SEAL	CALIFORNIA	2014	5	26	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	DEAD	LARGE BLUE ROPE AROUND THE ANIMAL'S NECK. LOOKS LIKE A SLIP KNOT. ABOUT 3 FEET OF TRAILING ROPE AFTER THE LOOP AROUND ITS NECK. NO LONG TERM MARKINGS OF ROPE ON THE ANIMAL, SUCH AS A PINK RING OF FLESH. THE FUR IS STILL INTACT AND LOOKS ONLY A LITTLE IRRITATED. ROPE AROUND NECK	DEAD	NA	1	Y	Y
HARBOR SEAL	CALIFORNIA	2014	5	30	DOG ATTACK	HUMBOLDT	CA	SI	UNDERWEIGHT ANIMAL WITH DOG BITES	SI	P9	1	N	Y
HARBOR SEAL	CALIFORNIA	2014	6	2	DOG ATTACK	HUMBOLDT	CA	SI	UNDERWEIGHT ANIMAL WITH DOG BITES	SI	P9	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2014	6	12	HARASSMENT	PIERCE	WA	SI	A HARBOR SEAL WAS ILLEGALLY PICKED UP AND REMOVED FROM THE BEACH FOR AN EXTENDED PERIOD OF TIME. THE ANIMAL WAS RETURNED TO THE BEACH, BUT FOUND DEAD LATER THAT DAY.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2014	6	23	HARASSMENT	WHATCOM	WA	SI	A HARBOR SEAL PUP WAS REPORTED TO BE HARRASSED BY BOATERS, KIDS, AND DOGS. THE ANIMAL EVENTUALLY DIED.	DEAD	NA	1	N	Y
HARBOR SEAL	CALIFORNIA	2014	6	26	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	BODY CONDITION WAS GOOD. MONOFILAMENT LINE WRAPPED AROUND NECK, IT WAS LOOSE SO NOT TOO DEEP. (1/8") BUT APPEARED TO RUB AND MAKE A WIDER A HARBOR SEAL PUP WAS REPEATEDLY HAULING OUT IN AREAS WITH HIGH CONCENTRATIONS OF PEOPLE OVER SEVERAL DAYS AND WAS ILLEGALLY PICKED UP. THE PUP WAS RELOCATED TO A REMOTE BEACH.	SI	P8A	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2014	7	3	HARASSMENT	JEFFERSON	WA	SI	A HARBOR SEAL PUP WAS REPORTED TO BE HAULING OUT IN A HIGH TRAFFIC AREA. A TRAINED RESPONDER ATTEMPTED TO RELOCATE THE ANIMAL, BUT WAS HARRASSED BY PROPERTY OWNERS. THE PUP WOUND UP BEING LEFT IN PLACE.	SI	P14	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2014	7	6	HARASSMENT	JEFFERSON	WA	NSI	A HARBOR SEAL PUP WAS HARRASSED WHILE HAULING OUT - A WOMAN MOVED IT AND ATTEMPTED TO FEED IT, DOGS WERE IN THE AREA AND INTERACTING WITH THE PUP. ACCORDING TO REPORTING PARTIES THE PUP HAD BEEN UNATTENDED FOR 4 DAYS. A TRAINED RESPONDER REMOVED THE SEAL FROM THE BEACH AND TO A REHABILITATION FACILITY. THE SEAL WAS REHABILITATED	NSI	P9	0	N	N
HARBOR SEAL	HOOD CANAL WASHINGTON NORTHERN INLAND WATERS	2014	7	9	HARASSMENT	JEFFERSON	WA	SI	A HARBOR SEAL PUP WAS PET, FED, AND HARRASSED BY THE PUBLIC. AS A RESULT, THE ANIMAL WAS SENT TO A REHAB FACILITY, BUT DIED AT THE FACILITY.	NSI	P9	0	N	N
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2014	7	11	HARASSMENT	SAN JUAN	WA	SI	OVER A PERIOD OF DAYS A HARBOR SEAL PUP WAS PET AND HARRASSED BY THE PUBLIC. PEOPLE ALSO ATTEMPTED TO FEED THE PUP POTATO CHIPS. THE PUP DIED SHORTLY AFTER TRAINED RESPONDERS ATTEMPTED TO ASSIST THE PUP.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2014	7	13	HARASSMENT	SAN JUAN	WA	SI	A HARBOR SEAL PUP WAS REPORTEDLY WET WITH A HOSE WHILE HAULING OUT ON A PRIVATE BEACH.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2014	7	16	HARASSMENT	SKAGIT	WA	NSI	A HARBOR SEAL PUP WAS REPORTED TO BE HARRASSED BY PEOPLE AND DOGS WHILE IT WAS HAULING OUT ON A BEACH.	NSI	P9	0	N	N
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2014	7	17	HARASSMENT	WHATCOM	WA	NSI	A HARBOR SEAL PUP WAS ILLEGALLY PICKED UP AND FED BY A HUMAN OVER A PERIOD OF SEVERAL DAYS. THE ANIMAL EVENTUALLY DIED.	NSI	P9	0	N	N
HARBOR SEAL	SOUTHERN PUGET SOUND	2014	7	22	HARASSMENT	PIERCE	WA	SI	A HARBOR SEAL PUP WAS HARRASSED BY PEOPLE AND DOGS. PEOPLE WERE TOUCHING, FEEDING, AND PETTING THE SEAL. LEVEL-A INDICATES THE ANIMAL WAS REHABILITATED AT WOLF HOLLOW AND THEN RELEASED.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2014	7	22	HARASSMENT	WHATCOM	WA	SI	A HARBOR SEAL PUP WAS REPORTEDLY HARRASSED BY DOGS AND PEOPLE. PEOPLE WERE TOUCHING, FEEDING, AND PETTING IT. THE LEVEL-A INDICATES THE PUP WAS ABANDONED AND INJURED. THE PUP WAS SENT TO WOLF HOLLOW FOR REHABILITATION BUT DIED.	NSI	P9	0	N	N
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2014	7	23	HARASSMENT	WHATCOM	WA	SI	A HARBOR SEAL PUP WAS REPORTED TO BE ILLEGALLY PICKED UP.	DEAD	NA	1	N	Y
HARBOR SEAL	SOUTHERN PUGET SOUND	2014	7	25	HARASSMENT	PIERCE	WA	NSI	A HARBOR SEAL PUP WAS REPORTED TO BE ILLEGALLY PICKED UP.	NSI	P9	0	N	N

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
HARBOR SEAL	HOOD CANAL	2014	8	8	HARASSMENT	KITSAP	WA	SI	A HARBOR SEAL PUP WAS REPORTED TO BE IN DISTRESS OVER SEVERAL DAY PERIOD BY A PROPERTY OWNER. WHEN TRAINED RESPONDERS ARRIVED TO RELOCATE THE PUP THEY FOUND IT SUCKLING ON THE THE PROPERTY OWNER'S LEG. THE SEAL WAS RELOCATED, BUT THEN RETURNED ON ITS OWN TO ITS ORIGINAL LOCATION. THE PUP WAS THEN SENT TO TO BE REHABILITATED AND WAS	NSI	P9	0	N	N
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2014	8	19	UNIDENTIFIED FISHERY INTERACTION	KITSAP	WA	DEAD	A HARBOR SEAL PUP WAS FOUND DEAD. GILLNET FISHING WAS REPORTED IN THE AREA AT THE TIME. THE ANIMAL EXHIBITED BLUNT FORCE TRAUMA AROUND ITS HEAD AND A LINEAR IMPRESSION AROUND ITS NECK. THE REPORTING PARTY, A HIGH QUALITY SOURCE OF INFORMATION, SUSPECTED THE MORTALITY WAS	DEAD	NA	1	Y	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2014	8	19	UNIDENTIFIED FISHERY INTERACTION	KITSAP	WA	DEAD	A HARBOR SEAL PUP WAS FOUND DEAD. THE ANIMAL EXHIBITED LINEAR IMPRESSIONS AROUND NECK AND ON EYES. THE REPORTING PARTY, A HIGH QUALITY SOURCE OF INFORMATION, SUSPECTED THE MORTALITY WAS FISHERIES RELATED.	DEAD	NA	1	Y	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2014	8	26	SHOOTING	CLATSOP	OR	DEAD	A HARBOR SEAL WAS FOUND DEAD WITH BULLET HOLES IN ITS BODY, A FRACTURED SKULL, AND OTHER SEVERE TRAUMA. A FIELD NECROPSY WAS PERFORMED.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2014	8	26	UNIDENTIFIED FISHERY INTERACTION	PIERCE	WA	DEAD	A HARBOR SEAL WAS FOUND DEAD AT A BOAT RAMP. THE ANIMAL EXHIBITED SLICE WOUNDS ON THE VENTRAL SIDE OF ITS NECK AND LESIONS AND PENETRATING WOUNDS CONSISTENT WITH NET INJURIES. A NECROPSY INDICATED SIGNS OF SLICING / MUTILATION AND SUSPECTED NET IMPRESSIONS ON THE HEAD.	DEAD	NA	1	Y	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2014	9	3	UNIDENTIFIED FISHERY INTERACTION	KITSAP	WA	SI	A HARBOR SEAL WAS REPORTED TO BE ENTANGLED IN A NET. AT LOW TIDE THE REPORTING PARTY RETURNED AND THE NET WAS EXPOSED. THEY FOUND THE SEAL DISENTANGLED, MUDDY, AND LAYING ON THE NET. IT HAD BEEN STABBED 5 TIMES IN THE CHEST AND WAS SURROUNDED BY A POOL OF FRESH BLOOD.	DEAD	NA	1	Y	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2014	9	9	SCIENTIFIC RESEARCH	LINCOLN	OR	DEAD	CAPTURE MYOPATHY RELATED TO RESEARCH ACTIVITIES. A HARBOR SEAL PUP WAS FOUND DEAD, IN A NEIGHBORHOOD SEVERAL HUNDRED YARDS FROM THE WATER, WITH BULLET HOLES IN ITS BODY AND EVIDENCE OF RECENT BLOOD LOSS. THE REPORTING PARTY BELIEVES THIS IS A FISHERIES RELATED MORTALITY. NO NECROPSY WAS CONDUCTED.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2014	9	10	SHOOTING	CLALLAM	WA	DEAD	ANIMALS APPEARS ALERT, HYDRATED AND IN OVERALL GOOD BODY CONDITION. FIRST SPOTTED BY THE PUBLIC ON MAY 18TH 2014. AUGUST 21 WAS REPORTED BY PUBLIC THAT THE FISHING LINE BROKE BUT WAS UNABLE TO SEE IF IT WAS EMBEDDED. WE FIRST GOT EYES ON IT 9/18/14. MADE A RESCUE ATTEMPT BUT NOT SUCCESSFUL. 2ND ATTEMPT WAS 9/19- HAD BEEN MONITORING ANIMAL FOR ABOUT 3 WEEKS. RESCUED DUE TO SUSPECTED HUMAN INTERACTION. APPEARANCE OF POSSIBLE ENTANGLEMENT AROUND THE ANIMALS	DEAD	NA	1	N	Y
HARBOR SEAL	CALIFORNIA	2014	9	20	HOOK AND LINE FISHERY	SAN DIEGO	CA	NSI	A HARBOR SEAL PUP WAS FOUND DEAD WITH BULLET HOLES AND HEAVY HEMORRHAGING. A NECROPSY WAS CONDUCTED.	NSI	P7B	0	N	N
HARBOR SEAL	OREGON-WASHINGTON COAST WASHINGTON	2014	9	20	SHOOTING	CLATSOP	OR	DEAD	A HARBOR SEAL PUP WAS FOUND DEAD WITH BULLET HOLES AND HEAVY HEMORRHAGING. A NECROPSY WAS CONDUCTED.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2014	9	29	UNIDENTIFIED FISHERY INTERACTION	CLALLAM	WA	DEAD	A HARBOR SEAL WAS FOUND DEAD IN DERELICT GILLNET GEAR.	DEAD	NA	1	Y	Y
HARBOR SEAL	CALIFORNIA	2014	10	17	HOOK AND LINE FISHERY	SAN DIEGO	CA	SI	SINGLE PIECE OF MONOFILAMENT LINE AROUND THE NECK, STARTED CUTTING INTO THE ANIMAL ON THE RIGHT SIDE AND UNDERNEATH. LACERATION WAS APPROXIMATELY 1/2" WIDE AND 1/2" DEEP	SI	P8A	1	N	Y

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HARBOR SEAL	OREGON- WASHINGTON COAST	2014	11	25	SHOOTING	CLATSOP	OR	DEAD	A HARBOR SEAL WAS FOUND DEAD AND REPORTED TO BE SHOT. THE ANIMAL SHOWED SIGNS OF TRAUMA, HEMORRHAGING, AND SKULL DAMAGE. A NECROPSY WAS CONDUCTED.	DEAD	NA	1	N	Y
HARBOR SEAL	OREGON- WASHINGTON COAST	2014	12	2	SHOOTING	CLALLAM	WA	DEAD	A HARBOR SEAL WAS FOUND DEAD WITH A TRACKING BULLET WOUND TO ITS HEAD. THE REPORTING PARTY BELIEVES THIS WAS A FISHERIES-RELATED MORTALITY.	DEAD	NA	1	N	Y
HARBOR SEAL	OREGON- WASHINGTON COAST	2015	1	20	SHOOTING	PACIFIC	WA	DEAD	A HARBOR SEAL WAS FOUND DEAD WITH REPORTED BULLET HOLES AND ASSOCIATED HEMORRHAGE IN ITS BODY, NECK, AND POSTERIOR SKULL AND FRACTURED CERVICAL VERTEBRAE.	DEAD	NA	1	N	Y
HARBOR SEAL	CALIFORNIA	2015	2	5	HARASSMENT	SAN DIEGO	CA	SI	NEONATE WITH UMBILICUS ILLEGALLY REMOVED FROM THE WILD BY MEMBER OF THE PUBLIC. TREATED IN REHAB FACILITY AND RELEASED. CONSIDERED SERIOUS INJURY BECAUSE ANIMAL WAS A DEPENDENT PUP.	SI	P14	1	N	Y
HARBOR SEAL	CALIFORNIA	2015	2	13	HARASSMENT	SAN LUIS OBISPO	CA	SI	NEONATE WITH UMBILICUS ILLEGALLY REMOVED FROM THE WILD BY MEMBER OF THE PUBLIC. TREATED AND RELEASED FROM REHAB. DEPENDENT PUP AND MATERNAL SEPARATION = SERIOUS INJURY.	SI	P14	1	N	Y
HARBOR SEAL	CALIFORNIA	2015	2	19	OIL / TAR	MONTEREY	CA	SI	UNDERWEIGHT PUP WITH UMBILICUS AND TAR SPOTS OVER DORSUM AND FLIPPERS. TREATED IN REHAB AND RELEASED. DEPENDENT PUP AND MATERNAL SEPARATION = SERIOUS INJURY.	SI	P14	1	N	Y
HARBOR SEAL	CALIFORNIA	2015	2	20	HARASSMENT	MARIN	CA	SI	NEONATE WITH UMBILICUS ILLEGALLY REMOVED FROM THE WILD BY MEMBER OF THE PUBLIC. EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
HARBOR SEAL	OREGON- WASHINGTON COAST	2015	2	21	SHOOTING	GRAYS HARBOR	WA	DEAD	A SUBADULT FEMALE HARBOR SEAL WAS FOUND DEAD. THE ANIMAL HAD SUSTAINED A PENETRATING INJURY, WITH CORRESPONDING ENTRANCE AND EXIT WOUNDS, AND THE SKULL WAS SHATTERED.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2015	3	5	SHOOTING	CLALLAM	WA	DEAD	A FRESHLY DEAD ADULT HARBOR SEAL WAS FOUND IN PORT ANGELES. THERE WERE TWO HOLES, ONE ON EITHER SIDE OF THE HEAD JUST POSTERIOR FROM THE EYE SOCKETS. THE REPORTING PARTY BELIEVED THE ANIMAL WAS SHOT.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2015	3	6	GILLNET FISHERY	SKAGIT	WA	DEAD	A HARBOR SEAL WAS FOUND DEAD IN A STATE OF MODERATE DECOMPOSITION IN DERELICT GILLNET THAT WAS STRETCHED BETWEEN TWO PINNACLES NEAR SARES HEAD. THE NET APPEARED TO BE NEW AND WAS THOUGHT TO BE LOST IN THE PREVIOUS YEAR.	DEAD	NA	1	Y	Y
HARBOR SEAL	CALIFORNIA	2015	3	21	HARASSMENT	ORANGE	CA	SI	NEONATE WITH UMBILICUS ILLEGALLY REMOVED FROM THE WILD BY MEMBER OF THE PUBLIC. TREATED AND RELEASED FROM REHAB. DEPENDENT PUP AND MATERNAL SEPARATION = SERIOUS INJURY.	SI	P14	1	N	Y
HARBOR SEAL	CALIFORNIA	2015	3	26	HARASSMENT	SONOMA	CA	SI	NEONATE WITH UMBILICUS ILLEGALLY REMOVED FROM THE WILD BY MEMBER OF THE PUBLIC. EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
HARBOR SEAL	CALIFORNIA	2015	4	17	HARASSMENT	MENDOCINO	CA	SI	NEONATE WITH UMBILICUS ILLEGALLY REMOVED FROM THE WILD BY MEMBER OF THE PUBLIC. TREATED AND RELEASED FROM REHAB. DEPENDENT PUP AND MATERNAL SEPARATION = SERIOUS INJURY.	SI	P14	1	N	Y
HARBOR SEAL	OREGON- WASHINGTON COAST	2015	4	21	SHOOTING	CLATSOP	OR	DEAD	A SUBADULT MALE HARBOR SEAL WAS FOUND DEAD. THERE WAS TREMENDOUS HEMORRHAGING THROUGHOUT THE HEAD AND BODY. AT LEAST ONE PROJECTILE WAS FOUND IN THE SKULL.	DEAD	NA	1	N	Y
HARBOR SEAL	OREGON- WASHINGTON COAST	2015	4	24	SHOOTING	CLATSOP	OR	DEAD	AN ADULT FEMALE HARBOR SEAL WAS FOUND DEAD. THERE WAS HEMORRHAGING REPORTED THROUGHOUT THE BODY AND A BLOOD FILLED ABDOMINAL CAVITY. THE ANIMAL WAS IN EXCELLENT BODY CONDITION. PROJECTILES WERE RECOVERED FROM THE SKULL AND UNDERWEIGHT ANIMAL WITH ABDOMINAL PUNCTURE WOUND TREATED IN REHAB AND RELEASED.	DEAD	NA	1	N	Y
HARBOR SEAL	CALIFORNIA	2015	4	29	UNIDENTIFIED HUMAN INTERACTION	LOS ANGELES	CA	SI	UNDERWEIGHT ANIMAL WITH ABDOMINAL PUNCTURE WOUND TREATED IN REHAB AND RELEASED.	NSI	P9	0	N	N

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HARBOR SEAL	CALIFORNIA	2015	5	4	OIL / TAR	MONTEREY	CA	SI	UNDERWEIGHT PUP WITH TAR ON FACE. TREATED IN REHAB FACILITY, OUTCOME UNKNOWN.	SI	P9	1	N	Y
HARBOR SEAL	CALIFORNIA	2015	5	23	OIL / TAR	SAN LUIS OBISPO	CA	SI	UNDERWEIGHT PUP WITH TAR ON FACE. TREATED IN REHAB FACILITY, OUTCOME UNKNOWN.	SI	P9	1	N	Y
HARBOR SEAL	OREGON- WASHINGTON COAST	2015	6	3	HOOK AND LINE FISHERY	LINCOLN	WA	SI	A HARBOR SEAL THAT INGESTED TROLL FISHERY GEAR WAS OBSERVED WITH A FLASHER HANGING FROM ITS OFF LEASH DOG ATTACKED AND KILLED SEAL.	SI	P2	1	N	Y
HARBOR SEAL	CALIFORNIA	2015	6	4	DOG ATTACK	SONOMA	CA	DEAD		DEAD	NA	1	N	Y
HARBOR SEAL	CALIFORNIA	2015	6	6	OIL / TAR	LOS ANGELES	CA	SI	ANIMAL COLLECTED AS PART OF MANHATTAN BEACH TAR INCIDENT. 51-75% EXTERNAL OILING SEEN ON NECK, SHOULDERS, MOST OF DORSAL SIDE, SMALL PATCHES ON VENTRAL SIDE. IN ADDITION TO STANDARD SEAWORLD NECROPSY SAMPLES TAKEN, OILED WILDLIFE CARE NETWORK NECROPSY SAMPLE COLLECTING PROTOCOLS WERE FOLLOWED. ANIMAL DIED IN REHAB.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2015	6	7	HARASSMENT	WHATCOM	WA	SI	A HARBOR SEAL PUP WAS HANDLED, PICKED UP, AND RELOCATED BY THE PUBLIC. THE PUP WAS REHABILITATED AND RELEASED ON SAN JUAN ISLAND ON AUGUST 29.	NSI	P9	0	N	N
HARBOR SEAL	CALIFORNIA	2015	6	12	VESSEL STRIKE	MARIN	CA	SI	HIT BY BOAT, CUT ON NECK. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2015	6	30	HARASSMENT	WHATCOM	WA	SI	A HARBOR SEAL PUP WAS MOVED AND HARASSED BY MEMBERS OF THE PUBLIC. THE ANIMAL WAS CAPTURED, REHABILITATED, AND RELEASED ON AUGUST 29, 2015.	NSI	P9	0	N	N
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2015	7	3	HARASSMENT	WHATCOM	WA	SI	A HARBOR SEAL PUP WAS ATTACKED BY A DOG AND HARASSED BY MEMBERS OF THE PUBLIC. THE PUP WAS REHABILITATED AND RELEASED AT SAN JUAN ISLAND ON AUGUST 29, 2015.	NSI	P9	0	N	N
HARBOR SEAL	OREGON- WASHINGTON COAST	2015	7	4	HARASSMENT	CLALLAM	WA	SI	A HARBOR SEAL PUP WAS HAULED OUT ON A POPULAR BEACH DURING A 4TH OF JULY CELEBRATION. THE PRESENCE OF PEOPLE ON THE BEACH AND FIREWORKS DROVE THE PUP INTO THE WATER, WHERE IT WAS REPORTED TO SUSTAIN INJURIES WHICH LED TO ITS DEATH. THERE ARE NO OTHER DETAILS. IN THE ABSENCE OF ADDITIONAL INFORMATION IT WILL BE ASSUMED THAT HUMAN HARASSMENT LED TO THE SEAL'S DEATH.	DEAD	NA	1	N	Y
HARBOR SEAL	OREGON- WASHINGTON COAST	2015	7	7	MARINE DEBRIS	COOS	OR	SI	AN ADULT FEMALE HARBOR SEAL WAS OBSERVED OVER A COUPLE MONTHS WITH A CIRCUMFERENTIAL NECK ENTANGLEMENT CAUSED BY A PACKING BAND. THE ENTANGLED SEAL SUCCESSFULLY REARED A PUP. THE PACKING BAND WAS NOTED TO BE CUTTING INTO THE SKIN AND BLUBBER.	SI	P8a	1	N	Y
HARBOR SEAL	OREGON- WASHINGTON COAST	2015	7	8	HARASSMENT	GRAYS HARBOR	WA	SI	A FEMALE HARBOR SEAL PUP WAS REPORTED TO BE ON A BEACH FOR A 24 HOUR PERIOD. DURING THIS TIME THERE WERE MULTIPLE REPORTS OF HARASSMENT, INCLUDING REPORTS OF PEOPLE THROWING THE SEAL. THE PUP WAS DEAD BY THE TIME STRANDING NETWORK RESPONDERS ARRIVED. IN THE ABSENCE OF ADDITIONAL INFORMATION THIS WILL BE ASSUMED TO BE A HUMAN-CAUSED MORTALITY DUE TO THE INTENSITY OF THE HARASSMENT.	DEAD	NA	1	N	Y
HARBOR SEAL	OREGON- WASHINGTON COAST	2015	7	15	SCIENTIFIC RESEARCH	CLATSOP	OR	DEAD	A HARBOR SEAL WAS CAUGHT AND KILLED IN A SALMON RESEARCH NET.	DEAD	NA	1	N	Y
HARBOR SEAL	SOUTHERN PUGET SOUND	2015	7	16	HARASSMENT	THURSTON	WA	SI	A HARBOR SEAL PUP WAS ON A BUSY BEACH. IT WAS OBSERVED TO BE UNATTENDED FOR TWO DAYS, AND MEMBERS OF THE PUBLIC WERE BEGINNING TO APPROACH AND TOUCH IT. THE PUP WAS REHABILITATED AND WAS RELEASED AT SOLO POINT ON OCTOBER 12.	NSI	P9	0	N	N
HARBOR SEAL	CALIFORNIA	2015	7	18	DOG ATTACK	HUMBOLDT	CA	SI	DOG BITES. TREATED IN REHAB FACILITY AND RELEASED.	NSI	P9	0	N	N
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2015	7	18	HARASSMENT	SAN JUAN	WA	SI	A HARBOR SEAL PUP WAS HARASSED BY MEMBERS OF THE PUBLIC AND A DOG. THE PUP SUSTAINED SEVERAL PUNCTURE WOUNDS WHICH BECAME INFECTED. THE SEAL WAS REHABILITATED AND RELEASED AT SAN JUAN ISLAND ON OCTOBER 15, 2015.	NSI	P9	0	N	N

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HARBOR SEAL	OREGON-WASHINGTON COAST	2015	7	19	HOOK AND LINE FISHERY	TILLAMOOK	OR	DEAD	AN ADULT MALE HARBOR SEAL WAS FOUND DEAD. THE SEAL HAD INGESTED HOOK AND LINE AND HEMORRHAGING WAS LOCATED THROUGHOUT THE BODY, POSSIBLY INDICATING THE ANIMAL WAS SHOT. HOWEVER, THIS MORTALITY WILL BE ATTRIBUTED TO INGESTED GEAR, SINCE IT CAN BE MORE READILY CONFIRMED THAN THE GUNSHOT INJURIES AND LIKELY OCCURRED PRIOR TO	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2015	7	24	HARASSMENT	SAN JUAN	WA	SI	A MALE HARBOR SEAL PUP WAS HARASSED BY MEMBERS OF THE PUBLIC AND DOGS AT A STATE PARK. PEOPLE WERE POURING WATER ON THE PUP AND DRIVING IT INTO THE WATER. REHABILITATION WAS ATTEMPTED, BUT THE ANIMAL HAD TO BE EUTHANIZED.	DEAD	NA	1	N	Y
HARBOR SEAL	HOOD CANAL	2015	7	25	HARASSMENT	KITSAP	WA	SI	A HARBOR SEAL PUP WAS HARASSED BY MEMBERS OF THE PUBLIC AT A BUSY BOAT LAUNCH. THE SEAL WAS REHABILITATED AND RELEASED AT JETTY ISLAND IN EVERETT ON OCTOBER 9, 2015.	NSI	P9	0	N	N
HARBOR SEAL	OREGON-WASHINGTON COAST	2015	8	10	SHOOTING	CLATSOP	OR	DEAD	A HARBOR SEAL IN EXCELLENT BODY CONDITION WAS FOUND DEAD WITH BULLET / PELLET HOLES AND ASSOCIATED HEMORRHAGE IN THE HEAD, NECK, PELVIS, AND TAIL. ONE OF THE ANIMAL'S LUMBAR VERTEBRA WAS BROKEN.	DEAD	NA	1	N	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2015	8	17	SHOOTING	CLATSOP	OR	DEAD	A HARBOR SEAL WAS FOUND DEAD WITH A HOLE IN ITS VENTRAL NECK WITH ASSOCIATED HEMORRHAGING. THERE WAS TREMENDOUS HEMORRHAGING THROUGHOUT THE BODY. THE REPORTING PARTY NOTED THIS ANIMAL WAS SHOT.	DEAD	NA	1	N	Y
HARBOR SEAL	CALIFORNIA	2015	8	19	DOG ATTACK	DEL NORTE	CA	SI	UNDERWEIGHT ANIMAL WITH DOG BITES. TREATED AT REHAB FACILITY AND RELEASED.	NSI	P9	0	N	N
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2015	8	27	VESSEL STRIKE	PIERCE	WA	DEAD	A MALE HARBOR SEAL PUP WAS FOUND FRESH DEAD. THE ANIMAL HAD SIX PARALLEL DEEP LACERATIONS ON THE LEFT SIDE OF THE BODY FROM THE BASE OF THE SKULL TO THE HIND FLIPPER CONSISTENT WITH PROPELLER INJURY.	DEAD	NA	1	N	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2015	8	28	HOOK AND LINE FISHERY	PACIFIC	WA	DEAD	AN ADULT MALE HARBOR SEAL CARCASS WAS FOUND. THE SEAL HAD INGESTED FISHING GEAR AND APPEARED TO BE SHOT IN THE HEAD AND BODY INDICATED BY HOLES AND ASSOCIATED HEMORRHAGE. GIVEN THE TWO SOURCES OF INJURY, THIS MORTALITY WILL BE ATTRIBUTED TO INGESTED GEAR, SINCE IT CAN BE MORE EASILY CONFIRMED THAN THE GUNSHOT INJURIES AND LIKELY OCCURRED PRIOR TO BEING SHOT.	DEAD	NA	1	N	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2015	9	7	SHOOTING	LINCOLN	OR	DEAD	A HARBOR SEAL WAS FOUND DEAD. THE ANIMAL APPEARED TO HAVE BEEN SHOT, AND BOTH ENTRY AND EXIT WOUNDS WERE EVIDENT. THE PROJECTILE PENETRATED FROM THE LEFT THORACIC TO RIGHT	DEAD	NA	1	N	Y
HARBOR SEAL	CALIFORNIA	2015	9	18	HOOK AND LINE FISHERY	MONTEREY	CA	DEAD	FISHING LINE WRAPPED AROUND NECK AND SEEMS TO EXTEND INTO THE BODY AS IF SWALLOWED. ONLY HALF OF LOWER MANDIBLE REMAINING.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2015	9	23	GILLNET FISHERY	SAN JUAN	WA	DEAD	A FRESH DEAD HARBOR SEAL AND TWO BIRDS WERE FOUND ENTANGLED IN A DERLICT / ABDONDED GILLNET.	DEAD	NA	1	Y	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2015	9	24	GILLNET FISHERY	SAN JUAN	WA	DEAD	A HARBOR SEAL WAS FOUND DEAD AND ENTANGLED IN GILLNET. THE SEAL WAS IN A STATE OF MODERATE DECOMPOSITION.	DEAD	NA	1	Y	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2015	9	24	SEAL BOMB	SNOHOMISH	WA	SI	A HARBOR SEAL WAS OBSERVED IN EDMONDS THAT WAS BLEEDING HEAVILY FROM ITS NOSE AND WITH OBVIOUS INJURIES TO ITS EYES. CAPTURE ATTEMPTS BY NOAA AND THE SEATTLE AQUARIUM WERE UNSUCCESSFUL. THE ANIMAL WAS NOT SEEN AGAIN. THE REPORTING PARTY BELIEVED THE SEAL'S INJURIES WERE SUSTAINED WHEN THE SEAL INGESTED A SEAL BOMB.	SI	P9	1	Y	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2015	9	26	ENTRAPMENT	KITSAP	WA	NSI	A HARBOR SEAL CLIMBED ONTO A BOAT AND AFTERWARD WAS UNABLE TO CLIMB OUT AND RETURN TO THE WATER. THE SEAL REMAINED ABOARD OVERNIGHT UNTIL THE REPORTING PARTY ARRIVED AND WAS ABLE TO POSITION A BOARD IN SUCH A FASHION THAT THE SEAL WAS ABLE TO CLIMB OFF THE BOAT AND INTO THE WATER.	NSI	P9	0	N	N
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2015	9	29	SHOOTING	WHATCOM	WA	DEAD	A FEMALE HARBOR SEAL WAS FOUND DEAD. A RADIOGRAPH CONFIRMED THE ANIMAL HAD BEEN SHOT. THERE WERE MULTIPLE PROJECTILES IDENTIFIED IN THE A SUBADULT FEMALE HARBOR SEAL WAS FOUND DEAD. THE ANIMAL APPEARED TO BE SHOT. THERE WERE CLEAR ENTRANCE AND EXIT WOUNDS IN THE ANIMAL'S SKULL AND ASSOCIATED HEMORRHAGING.	DEAD	NA	1	N	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2015	10	4	SHOOTING	CLATSOP	OR	DEAD	AN ADULT FEMALE HARBOR SEAL WAS FOUND DEAD WITH WHAT WAS NOTED TO BE A "CLEAR BULLET WOUND." FURTHER INVESTIGATION REVEALED A TRACKING WOUND. NO BULLET WAS RECOVERED.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2015	10	13	SHOOTING	WHATCOM	WA	DEAD	THREE HARBOR SEALS WERE FOUND ENTANGLED IN SUBMERGED GILLNET. EACH SEAL WAS FRESH DEAD. THIS IS SEAL ONE OF THREE.	DEAD	NA	1	Y	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2015	10	14	GILLNET FISHERY	SAN JUAN	WA	DEAD	THREE HARBOR SEALS WERE FOUND ENTANGLED IN SUBMERGED GILLNET. EACH SEAL WAS FRESH DEAD. THIS IS SEAL TWO OF THREE.	DEAD	NA	1	Y	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2015	10	14	GILLNET FISHERY	SAN JUAN	WA	DEAD	THREE HARBOR SEALS WERE FOUND ENTANGLED IN SUBMERGED GILLNET. EACH SEAL WAS FRESH DEAD. THIS IS SEAL THREE OF THREE.	DEAD	NA	1	Y	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2015	10	14	UNIDENTIFIED FISHERY INTERACTION	SAN JUAN	WA	DEAD	AN ADULT MALE HARBOR SEAL WAS OBSERVED CAUGHT IN A GATE BETWEEN TWO PONDS AT A CITY PARK. THE ANIMAL APPEARED TO BE FRESH DEAD. THE CARCASS WAS RECOVERED A COUPLE DAYS LATER WHEN IT WAS FLOATING IN THE MIDDLE OF ONE OF THE PONDS. THE SEAL HAD BROKEN AND MISSING UPPER AND LOWER TEETH AS WELL AS HEMORRHAGING UNDER ITS MOUTH. STRANDING RESPONDERS SUSPECT THESE INJURIES WERE SUSTAINED WHEN THE ANIMAL WAS TRAPPED IN THE MOUTH.	DEAD	NA	1	N	Y
HARBOR SEAL	SOUTHERN PUGET SOUND	2015	10	18	ENTRAPMENT	PIERCE	WA	DEAD	A ROBUST, WEANED, HARBOR SEAL PUP WAS OBSERVED HAULED OUT WITH A FISHING LURE HANGING FROM ITS MOUTH.	SI	P2	1	N	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2015	10	24	HOOK AND LINE FISHERY	LINCOLN	OR	SI	A FRESH DEAD SUBADULT MALE HARBOR SEAL WAS FOUND IN THE VICINITY OF ACTIVE SET GILLNET FISHING. THE ANIMAL HAD LINEAR LACERATIONS ON BOTH EYES CONSISTENT WITH ENTANGLEMENT AND MULTIPLE PUNCTURE WOUNDS ON THE ABDOMEN AND CHEST, POSSIBLY FROM A GAFF. BOTH FRONT AND BACK FLIPPERS WERE ALSO SEVERED.	DEAD	NA	1	Y	Y
HARBOR SEAL	SOUTHERN PUGET SOUND	2015	10	30	SET GILLNET FISHERY INTERACTION	PIERCE	WA	DEAD	A HARBOR SEAL WAS FOUND FRESH DEAD WITH A CIRCUMFERENTIAL NECK ENTANGLEMENT CAUSED BY WHAT APPEARED TO BE GHOST TRAWL NET. THE NET HAD PELAGIC GOOSENECK BARNACLES GROWING ON IT INDICATING THAT IT HAD BEEN ADRIFF FOR A WHILE.	DEAD	NA	1	Y	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2015	11	18	UNIDENTIFIED FISHERY INTERACTION	CLALLAM	WA	DEAD	APPARENTLY HEALTHY NEONATE WITH UMBILICUS WAS REMOVED FROM BEACH BY PUBLIC. TREATED AT REHAB FACILITY AND RELEASED. ANIMAL WAS ALSO DOCUMENTED ON 3/23 AND 3/24 BEING HANDLED BY THE APPARENTLY HEALTHY NEONATE WAS REMOVED FROM BEACH BY PUBLIC. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
HARBOR SEAL	CALIFORNIA	2016	1	17	HARASSMENT	SAN DIEGO	CA	NSI	A HARBOR SEAL WAS FOUND DEAD ON A PUBLIC BEACH. A LIMITED NECROPSY WAS CONDUCTED, AND A FISHING HOOK AND LINE WAS FOUND LODGED IN THE SEAL'S INTESTINES.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2016	2	23	HOOK AND LINE FISHERY	KITSAP	WA	DEAD	UNDERWEIGHT ANIMAL WITH FRESHLY ABSENT UMBILICUS HANDLED BY PUBLIC. TREATED AT REHAB FACILITY AND RELEASED.	SI	P14	1	N	Y
HARBOR SEAL	CALIFORNIA	2016	2	24	HARASSMENT	SAN LUIS OBISPO	CA	NSI						

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HARBOR SEAL	CALIFORNIA	2016	2	25	HARASSMENT	SAN DIEGO	CA	NSI	NEONATE WITH ATTACHED UMBILICUS WAS REMOVED FROM BEACH BY PUBLIC. ANIMAL WAS LETHARGIC WITH LABORED BREATHING. TREATED AT REHAB FACILITY AND RELEASED.	SI	P14	1	N	Y
HARBOR SEAL	CALIFORNIA	2016	2	28	HARASSMENT	MARIN	CA	NSI	MILDLY UNDERWEIGHT NEONATE REMOVED FROM BEACH BY PUBLIC. DIED IN REHAB.	DEAD	NA	1	N	Y
HARBOR SEAL	CALIFORNIA	2016	2	29	HARASSMENT	MARIN	CA	NSI	HARASSED - NETTED OUT OF WATER BY PUBLIC, MODERATELY UNDERWEIGHT, VOCAL, FULL LANUGO COAT, 3-4 CM UMBILICUS DRY AT TIP PRESENT. TREATED AT REHAB FACILITY AND RELEASED.	SI	P14	1	N	Y
HARBOR SEAL	CALIFORNIA	2016	3	1	HARASSMENT	MARIN	CA	NSI	REMOVED FROM WILD BY KAYAKER AND BROUGHT TO CAMPGROUND, FULL LANUGO COAT, FRESH PINK UMBILICUS PRESENT, EMACIATED. TREATED AT REHAB FACILITY AND RELEASED.	SI	P14	1	N	Y
HARBOR SEAL	CALIFORNIA	2016	3	2	HARASSMENT	MARIN	CA	NSI	REMOVED FROM WILD BY PUBLIC. MODERATELY UNDERWEIGHT, FULL LANUGO COAT WITH 3 CM DRIED UMBILICUS PRESENT. TREATED AT REHAB FACILITY AND RELEASED.	SI	P14	1	N	Y
HARBOR SEAL	CALIFORNIA	2016	3	15	HARASSMENT	SAN LUIS OBISPO	CA	NSI	HARASSED - ON TARP BEING PULLED AWAY FROM THE WATER BY MEMBER OF THE PUBLIC, FULL LANUGO COAT, EMACIATED. TREATED AT REHAB AND RELEASED.	SI	P14	1	N	Y
HARBOR SEAL	CALIFORNIA	2016	3	16	HARASSMENT	MARIN	CA	NSI	HARASSED - PUBLIC PULLED OUT OF WATER, MODERATELY UNDERWEIGHT, FULL LANUGO COAT, 3 CM LONG UMBILICUS DRY AT TIP PRESENT. TREATED AT REHAB FACILITY AND RELEASED.	SI	P14	1	N	Y
HARBOR SEAL	CALIFORNIA	2016	3	20	HARASSMENT	HUMBOLDT	CA	NSI	BEING FED BY MEMBERS OF THE PUBLIC. FOUND ON A PICNIC TABLE. DIED IN REHAB.	SI	P14	1	N	Y
HARBOR SEAL	OREGON - WASHINGTON COAST	2016	3	25	SHOOTING	NA	OR	DEAD	A HARBOR SEAL WAS FOUND IN A STATE OF MODERATE DECOMPOSITION AND A NECROPSY WAS CONDUCTED. PELLET HOLES THROUGHOUT THE SKULL AND BODY AS WELL AS BLOODY FLUID IN THE THORACIC CAVITY INDICATED THE ANIMAL HAD BEEN SHOT.	DEAD	NA	1	N	Y
HARBOR SEAL	HOOD CANAL	2016	4	4	MARINE DEBRIS	NA	WA	DEAD	A HARBOR SEAL WAS FOUND ENTANGLED IN BUOY LINES THAT SUPPORTED CAGES CONTAINING MUSSELS BEING GROWN TO MONITOR FOR ENVIRONMENTAL CONTAMINATION DURING A REMEDIATION PROJECT.	DEAD	NA	1	N	Y
HARBOR SEAL	CALIFORNIA	2016	4	12	HARASSMENT	MARIN	CA	NSI	REMOVED FROM WILD BY PUBLIC, EMACIATED, UMBILICUS FRESHLY ABSENT. TREATED AT REHAB FACILITY AND RELEASED.	SI	P14	1	N	Y
HARBOR SEAL	CALIFORNIA	2016	4	26	DOG ATTACK	HUMBOLDT	CA	SI	UNDERWEIGHT ANIMAL WITH DOG BITES. DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
HARBOR SEAL	OREGON - WASHINGTON COAST	2016	4	26	SHOOTING	NA	WA	DEAD	A HARBOR SEAL WAS FOUND IN A STATE OF ADVANCED DECOMPOSITION AND A NECROPSY WAS CONDUCTED. PELLET SIZED PENETRATING WOUNDS IN THE HEAD AND BODY, WITH ASSOCIATED HEMORRHAGING INDICATED THE ANIMAL HAD BEEN SHOT.	DEAD	NA	1	N	Y
HARBOR SEAL	CALIFORNIA	2016	5	11	HARASSMENT	MARIN	CA	NSI	MODERATELY UNDERWEIGHT, UMBILICUS ABSENT SITE CLOSED AND HEALED, HARASSED - PUBLIC TRYING TO DRAG TO WATER, SMALL TAR PATCHES ON MULTIPLE PARTS OF BODY.	SI	P14	1	N	Y
HARBOR SEAL	OREGON - WASHINGTON COAST	2016	5	21	HARASSMENT	GRAYS HARBOR	WA	SI	AN EMACIATED HARBOR SEAL PUP WAS REMOVED FROM A BEACH, BROUGHT TO A CONDO, AND FED MILK BY A MEMBER OF THE PUBLIC. IT ASPIRATED MILK INTO ITS AIRWAY, AND LATER DIED.	DEAD	NA	1	N	Y
HARBOR SEAL	OREGON - WASHINGTON COAST	2016	5	26	HARASSMENT	NA	OR	SI	A HARBOR SEAL WAS REPORTEDLY PICKED UP BY A MEMBER OF THE PUBLIC, MOVED FROM ITS ORIGINAL LOCATION, AND LATER RETURNED TO ITS ORIGINAL LOCATION. IT WAS LATER FOUND DEAD.	DEAD	NA	1	N	Y
HARBOR SEAL	OREGON - WASHINGTON COAST	2016	6	10	SHOOTING	NA	OR	DEAD	A HARBOR SEAL WAS FOUND IN A STATE OF ADVANCED DECOMPOSITION AND A NECROPSY WAS CONDUCTED. THERE WERE BULLET ENTRANCE AND EXIT WOUNDS IN THE SKULL, AND HEMORRHAGE THROUGHOUT THE BODY INDICATED THE ANIMAL HAD BEEN SHOT.	DEAD	NA	1	N	Y

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HARBOR SEAL	OREGON - WASHINGTON COAST	2016	6	16	SHOOTING	NA	OR	DEAD	A HARBOR SEAL WAS FOUND IN A STATE OF MODERATE DECOMPOSITION AND A NECROPSY WAS CONDUCTED. A HOLE IN THE HEAD WITH ASSOCIATED HEMORRHAGE INDICATED THE ANIMAL HAD BEEN SHOT. OTHERWISE THE ANIMAL WAS IN EXCELLENT BODY CONDITION.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2016	6	23	HARASSMENT	NA	WA	NSI	A HARBOR SEAL PUP THAT HAULED OUT IN A DOG PARK WAS OBSERVED BEING HELD BY MEMBERS OF THE PUBLIC. OVER REPEATED OBSERVATIONS THE SEAL PUP DID NOT MOVE LOCATION AND THE MOTHER WAS NOT ATTENTIVE, SO THE PUP WAS TRANSPORTED TO A REHABILITATION CENTER AND LATER RELEASED.	NSI	P14	0	N	N
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2016	7	3	HARASSMENT	PIERCE	WA	NSI	A HARBOR SEAL PUP BOARDED A SAILBOAT, BUT WAS UNABLE TO EXIT AFTER CLIMBING ABOARD. WDFW RESPONDED AND REMOVED THE SEAL. THE SEAL WAS REPORTED TO APPEAR HEALTHY.	NSI	P9	0	N	N
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2016	8	1	HARASSMENT	NA	WA	NSI	A LIVE HARBOR SEAL PUP HAD REPORTEDLY BEEN OBSERVED BEING HIT BY PEOPLE. THE SEAL WAS DEAD WHEN THE STRANDING RESPONDER ARRIVED. A NECROPSY WAS CONDUCTED, AND THE SEAL HAD A	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2016	8	2	HARASSMENT	KITSAP	WA	NSI	A HARBOR SEAL PUP WAS SEEN FOR DAYS HAULED OUT ON A HIGH-USE CITY DOCK. THE MOTHER WAS NOT IN ATTENDANCE, WHICH MAY HAVE BEEN DUE TO THE HIGH PUBLIC USE OF THE AREA. THE PUP WAS CAPTURED AND SENT TO A REHABILITATION CENTER WHERE IT LATER	DEAD	NA	1	N	Y
HARBOR SEAL	OREGON - WASHINGTON COAST	2016	8	10	HOOK AND LINE FISHERY	NA	OR	DEAD	A HARBOR SEAL WAS FOUND IN A STATE OF MODERATE DECOMPOSITION AND A NECROPSY WAS CONDUCTED. A FISH HOOK AND LINE WAS FOUND IN THE INTESTINES AND THERE WAS A SUBSTANTIAL AMOUNT OF BLOODY FLUID IN THE THORACIC AND ABDOMINAL CAVITIES.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2016	8	11	GILLNET FISHERY	KITSAP	WA	DEAD	A FRESH DEAD HARBOR SEAL WAS FOUND FLOATING IN AN AREA ACTIVELY BEING FISHED WITH GILLNETS. THE SEAL HAD NET-LIKE LINEAR IMPRESSIONS ON ITS EYES, CHEST, SHOULDERS, AND PELVIS.	DEAD	NA	1	Y	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2016	8	15	GILLNET FISHERY	KITSAP	WA	DEAD	A HARBOR SEAL WAS FOUND FLOATING IN A STATE OF MODERATE DECOMPOSITION AND A NECROPSY WAS CONDUCTED. THE CARCASS DISPLAYED CIRCULAR HEMORRHAGING AROUND THE LOWER JAW, HEAD, NECK, AND PELVIS. THERE WAS GILLNET FISHING OCCURRING IN THE AREA.	NA	NA	1	Y	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2016	8	15	GILLNET FISHERY	KITSAP	WA	DEAD	A HARBOR SEAL WAS FOUND FLOATING IN A STATE OF MODERATE DECOMPOSITION AND A NECROPSY WAS CONDUCTED. THERE WAS CIRCULAR HEMORRHAGING AROUND THE LOWER JAW AND BASE OF THE NECK.	NA	NA	1	Y	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2016	8	15	GILLNET FISHERY	KITSAP	WA	DEAD	A HARBOR SEAL WAS FOUND FLOATING FRESHLY DEAD. A NECROPSY WAS CONDUCTED. THERE WAS HEMORRHAGE AROUND THE HEAD, NECK, AND MID-BELLY.	NA	NA	1	Y	Y
HARBOR SEAL	NORTHERN OREGON - WASHINGTON COAST	2016	8	24	UNIDENTIFIED FISHERY INTERACTION	NA	WA	DEAD	A HARBOR SEAL WAS FOUND IN A STATE OF MODERATE DECOMPOSITION AND A NECROPSY WAS CONDUCTED. THERE WAS LINEAR HEMORRHAGE JUST BEHIND THE JAW EXTENDING VENTRALLY, HEMORRHAGE IN THE NECK AND BODY, RIB MARKS ON THE LUNG, AND THE SEAL WAS IN EXCELLENT BODY CONDITION.	DEAD	NA	1	Y	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2016	8	25	GILLNET FISHERY	NA	WA	DEAD	A HARBOR SEAL WAS FOUND FLOATING FRESHLY DEAD. A NECROPSY WAS CONDUCTED. THE EXAMINER NOTED LINEAR LINES/IMPRESSIONS ACROSS THE EYE. THE HEAD WAS ALSO BLOODY AND SWOLLEN, AND THE SKULL WAS LIKELY FRACTURED. IT APPEARED THE SEAL HAD BECOME ENTANGLED AND WAS THEN BLUDGEONED. GILLNET FISHING WAS OCCURRING NEARBY.	DEAD	NA	1	Y	Y

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HARBOR SEAL	CALIFORNIA	2016	8	26	SHOOTING	MARIN	CA	SI	FOUND ALIVE IN SURF WITH BLEEDING FROM THE HEAD. APPROACHABLE. GOOD BODY CONDITION. RADIOLOGY AT TMMC FOUND A CRANIAL FRACTURE WITH A BULLET AND FRAGMENT SCATTER IN THE SOFT TISSUES OF THE LEFT SIDE OF THE HEAD. EUTHANIZED IN REHAB.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2016	8	27	GILLNET FISHERY	NA	WA	DEAD	A HARBOR SEAL WAS FOUND FLOATING FRESHLY DEAD. A NECROPSY WAS CONDUCTED. THE EXAMINER NOTED LINEAR LINES/IMPRESSIONS ACROSS THE EYE. THE HEAD WAS ALSO BLOODY AND SWOLLEN, AND THE SKULL WAS LIKELY FRACTURED. IT APPEARED THE SEAL HAD BECOME ENTANGLED AND WAS THEN BLUDGEONED. GILLNET FISHING WAS OCCURRING NEARBY.	DEAD	NA	1	Y	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2016	8	31	VESSEL STRIKE	SAN JUAN	WA	DEAD	A FRESHLY DEAD HARBOR SEAL WAS FOUND STRANDED WITH TWO PARALLEL SLICES ON ITS DORSAL SIDE THAT APPEARED TO BE A PROPELLER INJURY.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2016	9	2	GILLNET FISHERY	NA	WA	DEAD	A HARBOR SEAL WAS FOUND FLOATING DEAD IN A STATE OF MODERATE DECOMPOSITION. A NECROPSY WAS CONDUCTED. IN ADDITION TO LINEAR IMPRESSIONS, THE SEAL HAD THREE DEEP LINEAR CUTS ON THE HEAD AND SHOULDER.	DEAD	NA	1	Y	Y
HARBOR SEAL	CALIFORNIA	2016	9	11	SHOOTING	DEL NORTE	CA	DEAD	CARCASS NECROPSIED. APPARENT GUN SHOT WOUND TO THE HEAD, BULLET NOT FOUND.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2016	9	22	HOOK AND LINE FISHERY	NA	WA	NSI	A HARBOR SEAL PUP WITH A 4 OZ FISHING LURE HOOKED TO ITS HIND FLIPPER WAS CAPTURED. THE HOOK WAS REMOVED, AND THE ANIMAL WAS RELEASED.	NSI	PSC	0	N	N
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2016	9	25	GILLNET FISHERY	NA	WA	DEAD	A HARBOR SEAL WAS FOUND DEAD, FLOATING IN A HARBOR. THE SEAL HAD NET IMPRESSIONS / INDICATIONS ON ITS BODY AND GILLNET FISHING WAS OCCURRING IN THE AREA.	DEAD	NA	1	Y	Y
HARBOR SEAL	SOUTHERN PUGET SOUND	2016	9	29	GILLNET FISHERY	NA	WA	DEAD	A HARBOR SEAL PUP WAS FOUND DEAD IN A STATE OF MODERATE DECOMPOSITION. THE PUP APPEARED AS IF IT HAD BEEN WRAPPED/ENTANGLED IN ROPE OR NET, AND THERE WAS SUBSTANTIAL HEMORRHAGE AROUND THE CHEST, LEADING EDGE OF FORE FLIPPERS, AND NOSE. THE ANIMAL ALSO HAD A PUNCTURED LEFT EYE. THERE WAS SALMON GILLNET FISHING OCCURING IN THE AREA.	DEAD	NA	1	Y	Y
HARBOR SEAL	CALIFORNIA	2016	10	14	SHOOTING	HUMBOLDT	CA	DEAD	CARCASS FOUND AT THE BASE OF INDIAN BEACH TRAIL STAIRS APPROXIMATELY 100 YARDS SOUTH. HOOK WAS EMBEDDED ON THE RIGHT SIDE OF THE ANIMALS NECK AND LINE WAS WRAPPED IN KELP MASS NEARBY. APPARENT GUN SHOT WOUND TO THE HEAD.	DEAD	NA	1	N	Y
HARBOR SEAL	HOOD CANAL	2016	10	18	UNIDENTIFIED FISHERY INTERACTION	NA	WA	DEAD	A HARBOR SEAL PUP WAS FOUND STRANDED WITH ALL TISSUE REMOVED FROM ITS SHOULDERS TO ITS EYES, AND WHAT APPEARED TO BE A PENETRATING GAFF WOUND ON ITS HEAD.	DEAD	NA	1	Y	Y
HARBOR SEAL	CALIFORNIA	2017	2	10	VESSEL STRIKE	MONTEREY	CA	DEAD	THREE LACERATIONS THAT RUN DIAGONALLY ACROSS THE BACK OF THE ANIMAL, EQUIDISTANT (22-24CM) FROM EACH OTHER. THE ANTERIOR AND POSTERIOR PROPELLER STRIKES BROKE THROUGH THE SKIN AND PROBABLY THE BLUBBER. THE MIDDLE PROPELLER STRIKE DID NOT BREAK SKIN BUT IS EVIDENT AS A SCAR WITH REMOVED FUR. BEYOND THIS APPARENT SCAVENGING HAS OBSCURED OBSERVATION OF HUMAN INTERACTION. BONES AT LEFT SIDE OF BACK OF SKULL ARE BROKEN. SLIGHTLY BLOATED AND EYES SCAVENGED.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON COAST	2017	3	2	SHOOTING	LINCOLN	CA	DEAD	DORSAL ENTRY WOUND APPROXIMATELY 1/2 INCH IN DIAMETER. EXIT WOUND ON VENTRUM.	DEAD	NA	1	N	Y

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HARBOR SEAL	CALIFORNIA	2017	4	9	HARASSMENT	SANTA BARBARA	CA	NSI	PUP (UMBILICUS FRESHLY ABSENT) ILLEGALLY PICKED UP BY MEMBER OF THE PUBLIC AND BROUGHT HOME OVERNIGHT WHERE IT WAS FED MILK AND FISH OIL. PERSON TRIED TO RELEASE THE ANIMAL THE NEXT DAY, BUT IT WOULD NOT LEAVE BEACH. TAKEN INTO REHAB FACILITY, TREATED AND RELEASED.	SI	P14	1	N	Y
HARBOR SEAL	CALIFORNIA	2017	4	10	HARASSMENT	SONOMA	CA	NSI	MALNOURISHED PUP WRAPPED IN A TOWEL BY MEMBERS OF THE PUBLIC AND MOVED AWAY FROM COLONY.	SI	P14	1	N	Y
HARBOR SEAL	CALIFORNIA	2017	4	17	DOG ATTACK	DEL NORTE	CA	SI	DOG ATTACKED ANIMAL. EUTHANIZED AT REHAB FACILITY.	DEAD	NA	1	N	Y
HARBOR SEAL	CALIFORNIA	2017	4	21	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	VENTURA	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
HARBOR SEAL	CALIFORNIA	2017	4	22	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	VENTURA	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
HARBOR SEAL	CALIFORNIA	2017	4	29	HARASSMENT	MARIN	CA	SI	PEOPLE TOUCHING AN EMACIATED SEAL PUP ON THE BEACH.	SI	P14	1	N	Y
HARBOR SEAL	OREGON - WASHINGTON COAST	2017	5	19	VEHICLE COLLISION	CLATSOP	OR	DEAD	PUP WITH UMBILICUS PRESENT, TRAUMA AND HEMORRHAGING DETERMINED TO BE RELATED TO BEING STRUCK BY VEHICLE.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2017	5	26	HARASSMENT	SKAGIT	WA	NSI	PUP BEING PET BY PEOPLE ON BEACH. REMOVED FROM BEACH AND EUTHANIZED AT REHAB FACILITY.	DEAD	NA	1	N	Y
HARBOR SEAL	NORTHERN OREGON - WASHINGTON COAST	2017	5	27	HARASSMENT	LINCOLN	OR	NSI	NEWBORN PUP WAS IN A HEAVILY USED SURFING AREA, WAS CONSTANTLY APPROACHED BY PEOPLE ON BEACH AND IN WATER DESPITE POSTED SIGNS; 5/28 WAS RELOCATED TO HAUL OUT AREA COVE NORTH OF INN AT OTTER CREST; GREEN PAINT APPLIED TO TOP OF HEAD.	SI	P14	1	N	Y
HARBOR SEAL	CALIFORNIA	2017	5	31	OPEN ACCESS CA HALIBUT BOTTOM TRAWL	OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
HARBOR SEAL	CALIFORNIA	2017	6	7	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	VENTURA	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
HARBOR SEAL	CALIFORNIA	2017	6	9	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	VENTURA	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
HARBOR SEAL	HOOD CANAL WASHINGTON NORTHERN INLAND WATERS	2017	6	17	HARASSMENT	MASON	WA	NSI	NEWBORN PUP WAS BEING PET BY MEMBERS OF THE PUBLIC. MOTHER DID NOT RETURN TO PUP AFTER A FEW DAYS AND PUP WAS REMOVED AND EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2017	6	19	HARASSMENT	WHATCOM	WA	DEAD	NEWBORN PUP DUMPED IN SOMEONE'S YARD.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2017	6	25	HARASSMENT	ISLAND	WA	NSI	NEWBORN PUP THAT HAD BEEN IN GOOD CONDITION WAS BEING CONTINUALLY HARASSED ON A BUSY BEACH. ITS CONDITION DETERIORATED AND IT WAS EUTHANIZED AT A REHAB FACILITY.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2017	6	27	HARASSMENT	WHATCOM	WA	NSI	CHILDREN WERE PUTTING A NEWBORN SEAL INTO THE WATER AND SWIMMING WITH IT AT A BUSY BEACH. ANIMAL EVENTUALLY WAS RELOCATED TO A NEW BEACH. DESIGNATED SERIOUS INJURY DUE TO MATERNAL SEPARATION.	SI	P14	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2017	6	28	HARASSMENT	WHATCOM	WA	NSI	CHILDREN WERE PUTTING A NEWBORN SEAL INTO THE WATER AND SWIMMING WITH IT AT A BUSY BEACH. SOME WERE THROWING ROCKS AT ANIMAL. ANIMAL CONDITION DETERIORATED. DESIGNATED SERIOUS INJURY DUE TO MATERNAL SEPARATION.	SI	P14	1	N	Y
HARBOR SEAL	HOOD CANAL WASHINGTON NORTHERN INLAND WATERS	2017	6	30	HARASSMENT	MASON	WA	NSI	PUP ILLEGALLY REMOVED FROM BEACH.	SI	P14	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2017	7	1	HARASSMENT	SAN JUAN	WA	NSI	NEWBORN PUP BEING HARASSED BY PEOPLE. SERIOUS INJURY DUE TO MATERNAL SEPARATION.	SI	P14	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2017	7	1	HARASSMENT	KITSAP	WA	NSI	NEWBORN PUP ILLEGALLY REMOVED FROM BEACH, BROUGHT TO PRIVATE RESIDENCE. PUP RETURNED TO BEACH AFTER REPORTING PARTY WAS TOLD OF ILLEGALITY OF REMOVING ANIMAL FROM BEACH. CONSIDERED SERIOUS INJURY BECAUSE OF MATERNAL SEPARATION.	SI	P14	1	N	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
HARBOR SEAL	N OREGON-WA COAST	2017	7	3	HARASSMENT	LANE	OR	NSI	WITNESS SAID BOYS WERE HITTING A SEAL WITH STICKS, DRAWING BLOOD.	SI	P9	1	N	Y
HARBOR SEAL	CALIFORNIA	2017	7	8	SHOOTING	SONOMA	CA	DEAD	SHOTGUN PELLETS IN CRANIUM.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2017	7	16	HARASSMENT	WHATCOM	WA	NSI	PUP BEING SURROUNDED AND INTERACTED WITH PEOPLE ON A REGULAR BASIS. PUP UNDERWEIGHT AND DEHYDRATED. ASSIGNED AS A SERIOUS INJURY DUE TO LIKELY PUP / MOTHER SEPARATION BECAUSE OF PRESENCE OF PEOPLE.	SI	P14	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2017	7	17	HARASSMENT	ISLAND	WA	NSI	PUP BEING FED, MOVED INTO WATER, AND TOUCHED BY PEOPLE ON THE BEACH. SERIOUS INJURY DUE TO PUP / MOTHER SEPARATION AGGRAVATED BY HUMAN	SI	P14	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2017	7	20	HARASSMENT	WHATCOM	WA	NSI	PUP BEING APPROACHED BY PEOPLE ON BEACH. SERIOUS INJURY DUE TO LIKELIHOOD OF AGGRAVATED MATERNAL / PUP SEPARATION.	SI	P14	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2017	7	22	HARASSMENT	WHATCOM	WA	NSI	PUP ON BEACH BEING MOVED INTO WATER BY PEOPLE.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2017	7	29	HARASSMENT	SKAGIT	WA	NSI	PUP REMOVED FROM BEACH AND FED AT PRIVATE RESIDENCE WHERE IT DIED.	DEAD	NA	1	N	Y
HARBOR SEAL	SOUTHERN PUGET SOUND WASHINGTON NORTHERN INLAND WATERS	2017	7	30	HARASSMENT	PIERCE	WA	NSI	PUP BEING HARASSED BY DOGS AND PEOPLE ON THE BEACH. SERIOUS INJURY DUE TO MATERNAL / PUP SEPARATION.	SI	P14	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2017	7	30	HARASSMENT	WHATCOM	WA	NSI	PUP REMOVED FROM BEACH BY BOATERS. SERIOUS INJURY DUE TO MATERNAL / PUP SEPARATION.	SI	P14	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2017	7	31	HARASSMENT	ISLAND	WA	NSI	HEALTHY PUP WAS HARASSED ON BEACH OVER A PERIOD OF DAYS AND EVENTUALLY DIED.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2017	8	5	HOOK AND LINE FISHERY	SAN JUAN	WA	SI	STRANDING RESPONSE TO A CALL OF A PUP WITH A FISH HOOK IN THE ROSTRUM. RESPONDERS ARRIVED AND CONFIRMED THAT PUP NO LONGER HAD HOOK	NSI	P5C	0	N	N
HARBOR SEAL	CALIFORNIA	2017	8	6	HARASSMENT	SAN MATEO	CA	SI	UNDERWEIGHT ANIMAL BEING TOUCHED BY MEMBERS OF THE PUBLIC. DIED AT REHAB FACILITY.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2017	8	10	VESSEL STRIKE	SAN JUAN	WA	DEAD	FRESHLY-WEANED PUP CARCASS WITH THREE PROPELLER LACERATIONS.	DEAD	NA	1	N	Y
HARBOR SEAL	SOUTHERN PUGET SOUND	2017	8	12	VESSEL STRIKE	PIERCE	WA	DEAD	CARCASS WITH THREE PROPELLER LACERATIONS BEING FED ON BY EAGLES.	DEAD	NA	1	N	Y
HARBOR SEAL	SOUTHERN PUGET SOUND	2017	8	15	VESSEL STRIKE	PIERCE	WA	DEAD	PUP CARCASS FOUND WITH MULTIPLE LACERATIONS CONSISTENT WITH VESSEL STRIKE.	DEAD	NA	1	N	Y
HARBOR SEAL	CALIFORNIA	2017	8	20	VESSEL STRIKE	MARIN	CA	DEAD	ANIMAL HAD A LARGE LACERATION IN ITS RIGHT SHOULDER AND A LARGE HEMATOMA IN THE RIGHT SIDE OF THE NECK AND HEAD CONSISTENT WITH VESSEL STRIKE	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2017	8	23	MARINE DEBRIS	KITSAP	WA	DEAD	ONE OF SEVEN ANIMALS ENTANGLED IN A NET BUOY.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2017	8	23	MARINE DEBRIS	KITSAP	WA	DEAD	ONE OF SEVEN ANIMALS ENTANGLED IN A NET BUOY.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2017	8	23	MARINE DEBRIS	KITSAP	WA	DEAD	ONE OF SEVEN ANIMALS ENTANGLED IN A NET BUOY.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2017	8	23	MARINE DEBRIS	KITSAP	WA	DEAD	ONE OF SEVEN ANIMALS ENTANGLED IN A NET BUOY.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2017	8	23	MARINE DEBRIS	KITSAP	WA	DEAD	ONE OF SEVEN ANIMALS ENTANGLED IN A NET BUOY.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2017	8	23	MARINE DEBRIS	KITSAP	WA	DEAD	ONE OF SEVEN ANIMALS ENTANGLED IN A NET BUOY.	DEAD	NA	1	N	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2017	8	23	MARINE DEBRIS	KITSAP	WA	DEAD	ONE OF SEVEN ANIMALS ENTANGLED IN A NET BUOY.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2017	8	24	GILLNET FISHERY	KITSAP	WA	DEAD	CARCASS FOUND WITH REMNANTS OF GILLNET AROUND NECK.	DEAD	NA	1	Y	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2017	9	15	HOOK AND LINE FISHERY	KING	WA	SI	FISHING LINE PROTRUDING FROM MOUTH WITH BLOOD AROUND MOUTH. LIKELY INGESTED HOOK.	SI	P2	1	N	Y
HARBOR SEAL	NORTHERN OREGON - WASHINGTON COAST	2017	10	5	SHOOTING	CLATSOP	OR	DEAD	ANIMAL WITH VERY GOOD BODY CONDITION WITH TREMENDOUS HEMORRHAGING AND HOLES ALL OVER BODY.	DEAD	NA	1	N	Y
HARBOR SEAL	NORTHERN OREGON - WASHINGTON COAST	2017	10	11	UNIDENTIFIED FISHERY INTERACTION	GRAYS HARBOR	OR	DEAD	ONE OF TWO CARCASSES FOUND ON THE BEACH WITH PENETRATING WOUNDS CONSISTENT WITH THE USE OF A FISHING GAFF.	DEAD	NA	1	Y	Y
HARBOR SEAL	NORTHERN OREGON - WASHINGTON COAST	2017	10	11	UNIDENTIFIED FISHERY INTERACTION	GRAYS HARBOR	OR	DEAD	ONE OF TWO CARCASSES FOUND ON THE BEACH WITH PENETRATING WOUNDS CONSISTENT WITH THE USE OF A FISHING GAFF.	DEAD	NA	1	Y	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2017	10	13	DOG ATTACK	WHATCOM	WA	SI	ANIMAL DESCRIBED AS BEING ATTACKED BY DOG, POSSIBLY RESULTING IN A BROKEN TOE ON SEAL. TREATED AT REHAB FACILITY AND RELEASED.	NSI	P9	0	N	N
HARBOR SEAL	SOUTHERN PUGET SOUND	2017	10	30	GILLNET FISHERY	THURSTON	WA	DEAD	ONE OF TEN HARBOR SEALS FOUND DEAD IN A GILLNET.	DEAD	NA	1	Y	Y
HARBOR SEAL	SOUTHERN PUGET SOUND	2017	10	30	GILLNET FISHERY	THURSTON	WA	DEAD	ONE OF TEN HARBOR SEALS FOUND DEAD IN A GILLNET.	DEAD	NA	1	Y	Y
HARBOR SEAL	SOUTHERN PUGET SOUND	2017	10	30	GILLNET FISHERY	THURSTON	WA	DEAD	ONE OF TEN HARBOR SEALS FOUND DEAD IN A GILLNET.	DEAD	NA	1	Y	Y
HARBOR SEAL	SOUTHERN PUGET SOUND	2017	10	30	GILLNET FISHERY	THURSTON	WA	DEAD	ONE OF TEN HARBOR SEALS FOUND DEAD IN A GILLNET.	DEAD	NA	1	Y	Y
HARBOR SEAL	SOUTHERN PUGET SOUND	2017	10	30	GILLNET FISHERY	THURSTON	WA	DEAD	ONE OF TEN HARBOR SEALS FOUND DEAD IN A GILLNET.	DEAD	NA	1	Y	Y
HARBOR SEAL	SOUTHERN PUGET SOUND	2017	10	30	GILLNET FISHERY	THURSTON	WA	DEAD	ONE OF TEN HARBOR SEALS FOUND DEAD IN A GILLNET.	DEAD	NA	1	Y	Y
HARBOR SEAL	SOUTHERN PUGET SOUND	2017	10	30	GILLNET FISHERY	THURSTON	WA	DEAD	ONE OF TEN HARBOR SEALS FOUND DEAD IN A GILLNET.	DEAD	NA	1	Y	Y
HARBOR SEAL	SOUTHERN PUGET SOUND	2017	10	30	GILLNET FISHERY	THURSTON	WA	DEAD	ONE OF TEN HARBOR SEALS FOUND DEAD IN A GILLNET.	DEAD	NA	1	Y	Y
HARBOR SEAL	NORTHERN OREGON - WASHINGTON COAST	2017	11	1	GILLNET FISHERY	JEFFERSON	WA	DEAD	ONE OF TEN HARBOR SEALS FOUND DEAD IN A GILLNET. CARCASS FOUND WITH CIRCULAR DEEP IMPRESSION AROUND SNOUT AND POSSIBLE GAFF MARKS.	DEAD	NA	1	Y	Y
HARBOR SEAL	SOUTHERN PUGET SOUND	2017	12	1	GILLNET FISHERY	PIERCE	WA	SI	RESEARCHERS ENCOUNTERED A HARBOR SEAL IN A GILLNET AND BROUGHT IT ABOARD A VESSEL WHERE THEY DISENTANGLED IT. THE ANIMAL WAS ABLE TO EXIT THE BOAT AND SWIM AWAY UNDER ITS OWN POWER. REPORTED DEAD FLOATING. IN A BAY THAT HAS A HATCHERY UP CREEK FROM WHERE RECOVERED. NO ACTIVE COMMERCIAL FISHING IN AREA. PENETRATING WOUND BEHIND RIGHT ORBITAL, FRACTURING FROM RIGHT ORBITAL TO EAR. FOUND BULLET FRAGMENTS AMONG BONE FRAGMENTS IN MUSCLE AT NECK. SEAL WAS PREGNANT WITH 2ND TRIMESTER FETUS. TRACKING INJURY THOUGH LEFT SIDE OF SKULL. ENTRANCE INTO EYE AND THEN TRACKED BACK L SIDE SKULL FRACTURING SKULL ALL THE WAY BACK AND BULLET RECOVERED IN NECK MUSCLE WITH ASSOCIATED HEMORRHAGE. HEMORRHAGE INTO BRAIN AND SKULL CAVITY.FOUND BULLET FRAGMENTS AMONG BONE FRAGMENTS.	NSI	P7B	0	Y	N
HARBOR SEAL	SOUTHERN PUGET SOUND	2018	2	5	SHOOTING	PIERCE	WA	DEAD	HEMORRHAGE INTO BRAIN AND SKULL CAVITY.FOUND BULLET FRAGMENTS AMONG BONE FRAGMENTS.	DEAD	NA	1	N	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
HARBOR SEAL	OREGON-WASHINGTON COAST	2018	2	7	SHOOTING	PACIFIC	WA	SI	PENETRATING PUNCTURE ON R SIDE OF BEHIND SKULL TRACKS ALL THE WAY TO EAR WHERE TISSUE IS SWOLLEN. CAN FEEL IT HIT BONE AND ACTUALLY PENTRATES IN SKULL. LARGE 10X6X3 CM WOUND LACERATION ON SIDE FACE RIGHT AT LOWER JAW, DEEP. MUSCLE JUST BELOW JAW CUT. ABLE TO FEEL CREPITUS UPON PALPATION OF THE SKULL AREA AT TOP OF HEAD ALONG SIDE, POSSIBLY FRACTURED. PUNCTURES TO R PELVIS AREA. NECK AND HEAD SWOLLEN. ANIMAL EUTHANIZED.	DEAD	NA	1	N	Y
HARBOR SEAL	CALIFORNIA	2018	2	18	HARASSMENT	SANTA BARBARA	CA	SI	HUMAN-INDUCED ABANDONMENT. NEONATE (POSSIBLY ABANDONED) WITH PLACENTA AND UMBILICUS ATTACHED. ANIMAL WAS REMOVED FROM BEACH BY PUBLIC AND LATER EUTHANIZED AT FACILITY.	DEAD	NA	1	N	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2018	2	20	SHOOTING	GRAYS HARBOR	WA	DEAD	PENETRATING WOUND WITH ASSOCIATED TRACKING HEMORRHAGE FROM BACK OF SKULL INTO SKULL WITH BONE FRACTURES OUT NEAR EYE AND THRU TO NASAL CAVITY WHERE THE BULLET WAS RECOVERED. OBVIOUSLY SIGNIFICANT ENOUGH TO CAUSE THE DEATH OF THE SEAL.	DEAD	NA	1	N	Y
HARBOR SEAL	CALIFORNIA	2018	2	25	HARASSMENT	SAN DIEGO	CA	SI	HUMAN-INDUCED ABANDONMENT. LIFEGUARD PICKED NEONATE OFF OF SOUTH CASA BEACH AND BROUGHT IT TO THE LIFEGUARD TOWER. POSSIBLE ABANDONMENT PRIOR TO RESCUE. SLIGHTLY THIN, BUT BRIGHT, ALERT, AND RESPONSIVE. NO DETAILS ON OUTCOME.	SI	P14	1	N	Y
HARBOR SEAL	CALIFORNIA	2018	3	20	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
HARBOR SEAL	CALIFORNIA	2018	4	4	HARASSMENT	SANTA BARBARA	CA	SI	ILLEGALLY REMOVED A PUP FROM BEACH AND BROUGHT TO A REHAB FACILITY. PUP VERY THIN, NO UMBILICAL CORD. OUTCOME UNKNOWN.	SI	P14	1	N	Y
HARBOR SEAL	CALIFORNIA	2018	4	12	HARASSMENT	SANTA CRUZ	CA	SI	MALNOURISHED ANIMAL DRAGGED OUT OF SURFLINE BY PEOPLE. NO FURTHER DETAILS.	SI	P14	1	N	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2018	4	14	HARASSMENT	CLATSOP	OR	SI	CITIZEN PICKED UP LANUGO PUP FROM BEACH AND RETURNED IT. PUP WAS VERY ACTIVE FOR 2-3 DAYS, THEN LOST ACTIVITY/WEIGHT. PUP SUBSEQUENTLY DIED.	DEAD	NA	1	N	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2018	4	14	HARASSMENT	GRAYS HARBOR	WA	SI	MULTIPLE PEOPLE REPORTED PETTING AND HARASSING A 100% LANUGO PUP WITH A FRESH UMBILICUS. SEAL REPORTED TO HAVE GONE BACK IN THE WATER WITH MOTHER DURING THE NIGHT BUT REPORTED BACK ON THE BEACH NEXT DAY. SEAL WAS MARKED WITH GREEN PAINT. SEAL WAS REPORTED GONE THE FOLLOWING DAY NOT SEEN AGAIN.	SI	P14	1	N	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2018	4	16	SHOOTING	TILLAMOOK	OR	DEAD	ANIMAL WITH EXCELLENT BODY CONDITION AND SHATTERED SKULL WAS CLEARLY SHOT IN THE HEAD.	DEAD	NA	1	N	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2018	4	21	HARASSMENT	LINCOLN	OR	SI	HARASSMENT. LANUGO COVERING MUCH OF POST-CRANIAL BODY. NO ADDITIONAL DETAILS.	SI	P14	1	N	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2018	4	21	SHOOTING	PACIFIC	WA	DEAD	ANIMAL WAS SHOT IN THE HEAD; THE SEAL HAD EXCELLENT BODY CONDITION.	DEAD	NA	1	N	Y
HARBOR SEAL	CALIFORNIA	2018	4	22	HARASSMENT	MARIN	CA	NSI	MALNOURISHED PUP BEING HARASSSED BY PEOPLE AND DOGS.	SI	P14	1	N	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2018	4	22	SHOOTING	CLATSOP	OR	SI	THE SEAL WAS REPORTED ALIVE ON HIGHWAY 202, THEN DEAD SHORTLY THEREAFTER FROM BEING SHOT IN THE HEAD. FULL-TERM FETUS PRESENT WITH HEAD WELL DOWN INTO BIRTH CANAL. FETUS SHOWED SIGNS OF SIGNIFICANT TRAUMA AND HEMORRHAGE - CAUSE IS UNKNOWN. IT IS UNCLEAR WHETHER THE SEAL WAS RUN OVER, AS THERE WERE NO OBVIOUS SIGNS OUTSIDE OF CONDITION OF FETUS. THE SEAL HAD EXCELLENT BODY CONDITION. HISTOPATHOLOGY INDICATED MILD MULTIFOCAL ENCEPHALITIS, BUT INDICATED THAT IT WAS NOT THE PROXIMATE CAUSE OF DEATH.	DEAD	NA	1	N	Y
HARBOR SEAL	CALIFORNIA	2018	4	24	HARASSMENT	SAN MATEO	CA	SI	CITIZEN PICKED MOVED EMACIATED PUP AWAY FROM THE WATER UP THE BEACH.	SI	P14	1	N	Y
HARBOR SEAL	CALIFORNIA	2018	5	1	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y

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HARBOR SEAL	CALIFORNIA	2018	5	2	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
HARBOR SEAL	CALIFORNIA	2018	5	3	CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2018	5	15	HARASSMENT	GRAYS HARBOR	WA	SI	NEWBORN PUP WITH FRESH UMBILICUS REMOVED FROM THE WATER BY PUBLIC BECAUSE THEY THOUGHT ANIMAL WAS DROWNING. MATERNAL SEPARATION. SERIOUS INJURY UNDER CRITERIA P14.	SI	P14	1	N	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2018	5	18	HARASSMENT	GRAYS HARBOR	WA	SI	PUBLIC PICKING UP NEWBORN PUP FROM BEACH AND ATTEMPTING TO RETURN IT TO THE WATER. MATERNAL SEPARATION.	SI	P14	1	N	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2018	5	23	HARASSMENT	LINCOLN	OR	SI	PUP ILLEGALLY REMOVED FROM BEACH BY CONCERNED CITIZENS. MATERNAL SEPARATION.	SI	P14	1	N	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2018	6	11	SHOOTING	PACIFIC	WA	DEAD	SEAL WITH EXCELLENT BODY CONDITION THAT WAS OBVIOUSLY SHOT, AS THE SKULL WAS BLOWN OUT. ASSOCIATED HEMORRHAGING.	DEAD	NA	1	N	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2018	6	11	SHOOTING	COOS	OR	DEAD	MAJOR TRAUMA TO HEAD, THREE LARGE PENETRATING WOUNDS WITH LEFT EYE BLOWN OUT. THESE APPEAR TO BE GUNSHOT WOUNDS. LACERATION AT BASE OF LEFT HIND FLIPPER.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2018	6	13	VESSEL STRIKE	SAN JUAN	WA	DEAD	FRESHLY DEAD ADULT SEAL FOUND FLOATING. COLLECTED FOR FULL NECROPSY. BUCKSHOT EMBEDDED BEHIND AUDITORY CANAL. LEFT EYE PHITIC, FIBROUS, AND SHRUNKEN. FOUR PARALLEL LACERATIONS RUNNING ROUGHLY FROM LEFT TO RIGHT ON THE LEFT LATERAL SURFACE STARTING AT THE PELVIS AND CONTINUING TOWARDS THE LEFT HIND FLIPPERS WITH APPROXIMATELY 4.5 CM BETWEEN EACH LACERATION; CLEAN EDGES; INDICATIVE PROPELLOR STRIKE INJURIES. LACERATIONS EXTENDED THROUGH SEVERAL BONES IN LEFT HIND FLIPPER AND THERE WAS HEMORRAGING NEAR THE INJURIES AS WELL AS IN THE ABDOMINAL CAVITY. HISTORY OF GUNSHOT - SMALL BUCKSHOT FOUND AND RECOVERED FROM SKULL.	DEAD	NA	1	N	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2018	6	15	HARASSMENT	GRAYS HARBOR	WA	SI	PUP WITH UMBILICUS MOVING UP AND DOWN THE BEACH, INTO AND OUT OF WATER. ILLEGALLY PICKED UP BY CITIZEN WHO BROUGHT ANIMAL TO HOTEL. MATERNAL SEPARATION.	SI	P14	1	N	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2018	6	15	HARASSMENT	GRAYS HARBOR	WA	SI	EMACIATED ANIMAL BEING KICKED AND HIT WITH STICKS BY PUBLIC. ANIMAL DIED ENROUTE TO REHAB FACILITY.	DEAD	NA	1	N	Y
HARBOR SEAL	SOUTHERN PUGET SOUND WASHINGTON NORTHERN INLAND WATERS	2018	6	20	HARASSMENT	PIERCE	WA	SI	PUBLIC HAD MOVED PUP WITH UMBILICUS OUT OF THE WAY OF BOAT LAUNCH AREA. ANIMAL DIED AFTER 2 WEEKS AT REHAB FACILITY. MATERNAL SEPARATION.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2018	6	21	HARASSMENT	WHATCOM	WA	SI	JACKET PLACED OVER LANUGO PUP ON BEACH. MATERNAL SEPARATION.	SI	P14	1	N	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2018	6	26	VESSEL STRIKE	PACIFIC	WA	SI	A SERIES OF THREE PROPELLER CUTS ON RIGHT LATERAL SIDE OF BODY; THERE WERE ALSO CANINE PUNCTURE WOUNDS THAT APPEARED TO BE POST-MORTEM AND, THEREFORE, NOT THE CAUSE OF DEATH. THE LIVE PUP WAS PICKED UP BY A WDFW OFFICER AND THE SEAL DIED IN TRANSIT. THE ANIMAL HAD FAIR BODY CONDITION.	DEAD	NA	1	N	Y
HARBOR SEAL	SOUTHERN PUGET SOUND WASHINGTON NORTHERN INLAND WATERS	2018	6	26	VESSEL STRIKE	PIERCE	WA	SI	PUBLIC MOVING PUP ON THE BEACH. MATERNAL SEPARATION.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2018	6	28	HARASSMENT	SAN JUAN	WA	SI	NEWBORN PUP WITH FRESH UMBILICUS REMOVED FROM THE BEACH BY PUBLIC. TRANSFERRED TO REHAB FACILITY, OUTCOME UNKNOWN. MATERNAL SEPARATION.	SI	P14	1	N	Y
HARBOR SEAL	CALIFORNIA	2018	6	29	GILLNET FISHERY	SAN DIEGO	CA	SI	ANIMAL WITH GOOD BODY WEIGHT AND GILLNET CUTTING DEEP INTO NECK. RESCUE ATTEMPTS FAILED.	SI	P8A	1	Y	Y
HARBOR SEAL	SOUTHERN PUGET SOUND	2018	6	30	HARASSMENT	PIERCE	WA	SI	PUP BEING HARASSED BY PEOPLE AND DOGS AT THE BEACH. ANIMAL DIED IN REHAB FACILITY. MATERNAL SEPARATION.	DEAD	NA	1	N	Y
HARBOR SEAL	SOUTHERN PUGET SOUND	2018	6	30	HARASSMENT	KITSAP	WA	SI	THIN, BUT ALERT AND CALLING PUP BEING HARASSED BY PUBLIC AND DOGS. MATERNAL SEPARATION.	SI	P14	1	N	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2018	7	3	HARASSMENT	WHATCOM	WA	SI	PUBLIC ATTEMPTING TO SWIM WITH PUP FOR TWO DAYS WHILE MOTHER WAS NOT DETECTED. MATERNAL SEPARATION.	SI	P14	1	N	Y
HARBOR SEAL	CALIFORNIA	2018	7	6	HOOK & LINE FISHERY	MONTEREY	CA	SI	HOOK & LINE FISHERY AND HARASSMENT. LETHARGIC ANIMAL WITH SEPTICEMIA AND UNDESIRABLE HOOK AND LINE FISHERY ISSUES SURROUNDED BY MEMBERS OF THE PUBLIC ON BEACH. OUTCOME UNKNOWN.	SI	P1	1	N	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2018	7	6	SHOOTING	LINCOLN	OR	DEAD	ENTRY WOUND AND TRACT LEADING FROM LEFT SHOULDER TO RIGHT SIDE OF HEAD - TRACHEA SEVERED; RIGHT SIDE OF FACE AND LOWER JAW SEVERELY	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2018	7	6	HARASSMENT	WHATCOM	WA	SI	PUP WAS FIRST OBSERVED ON JULY 4TH ON A HEAVILY POPULATED BEACH. PUP ENTERED THE WATER YET KEPT RETURNING TO THE SAME SPOT. PEOPLE WERE SURROUNDING IT AND IT HAD BEEN REPORTED THAT THEY HAD PUT IT IN THE WATER MORE THAN ONCE. MATERNAL SEPARATION.	SI	P14	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2018	7	7	HARASSMENT	WHATCOM	WA	SI	ANIMAL ON BEACH BEING HARASSED BY DOGS. NO FURTHER DETAILS ON AGE OR CONDITION OF ANIMAL. ASSUMING THIS CASE INVOLVED A PUP AND MATERNAL SEPARATION, AS AN ADULT ANIMAL WOULD LIKELY FLEE INTO THE WATER.	SI	P14	1	N	Y
HARBOR SEAL	CALIFORNIA WASHINGTON	2018	7	8	VESSEL STRIKE	SONOMA	CA	DEAD	OTOSTRONGYLIASIS, TRAUMA. SEAL WAS FOUND ON THE BEACH WITH LEFT EYE BLEEDING. DIED IN TRANSPORT TO FACILITY. 3 PARALLEL LACERATIONS ON RIGHT SIDE OF FACE (BOATSTRIKE).	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2018	7	17	HARASSMENT	WHATCOM	WA	SI	PUBLIC MOVING PUP FROM ROCKS TO WATER REPEATEDLY. MATERNAL SEPARATION.	SI	P14	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2018	7	20	HARASSMENT	SAN JUAN	WA	SI	PUP WITH UMBILICUS HAULED OUT OR PLACED ON PADDLEBOARD. SENT TO REHAB FACILITY, OUTCOME UNKNOWN.	SI	P14	1	N	Y
HARBOR SEAL	SOUTHERN PUGET SOUND	2018	7	22	HARASSMENT	PIERCE	WA	SI	UMBILICUS WAS A DRIED NUB. ALERT, CALLING TRY TO SUCKLE. PEOPLE WERE REPORTED AS MOVING SEAL INTO WATER. HARASSMENT / MATERNAL SEPARATION.	SI	P14	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2018	7	27	VESSEL STRIKE	ISLAND	WA	DEAD	INVESTIGATORS FOUND SUB ADULT FEMALE WITH SEVERAL OPEN WOUNDS ON HER DORSAL AND LEFT SIDE. THE CURVED SHAPE OF THE WOUNDS INDICATED POSSIBLE COLLISION WITH BOAT PROPELLER. THE CARCASS HAD BEEN LYING ON ITS VENTRAL SIDE WHEN FIRST SEEN, INTERPRETED TO MEAN THAT THE DORSAL SURFACE, WHERE MOST OF THE WOUNDS WERE LOCATED MAY NOT HAVE BEEN AVAILABLE TO SCAVENGING AFTER HARASSMENT AND POSSIBLE DOG ATTACK AS EVIDENCED BY PUNCTURE WOUNDS. ON AND AROUND A PUBLIC BEACH WITH FERRY DOCK.	DEAD	NA	1	N	Y
HARBOR SEAL	SOUTHERN PUGET SOUND	2018	7	28	HARASSMENT	PIERCE	WA	SI	SEAL PUP ILLEGALLY REMOVED FROM BEACH BY PUBLIC. MATERNAL SEPARATION.	SI	P9	1	N	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2018	8	4	HARASSMENT	PIERCE	WA	SI	SEAL PUP ILLEGALLY REMOVED FROM BEACH BY PUBLIC. MATERNAL SEPARATION.	SI	P14	1	N	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2018	8	11	SHOOTING	CLATSOP	OR	DEAD	PELLET/BULLET HOLES IN SKULL.	DEAD	NA	1	N	Y
HARBOR SEAL	SOUTHERN PUGET SOUND	2018	8	11	HARASSMENT	KITSAP	WA	SI	PUBLIC REMOVED PUP FROM BEACH / WATER AND PLACED IT ON TOP OF PADDLEBOAT. IT DIED 2 DAYS	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2018	8	12	SHOOTING	WHATCOM	WA	DEAD	BULLET HOLE, BULLET NOT RECOVERED. HEAD SHATTERED, STRONGLY SUGGESTIVE OF A GUNSHOT WOUND. THE SEAL HAD EXCELLENT BODY CONDITION OTHERWISE.	DEAD	NA	1	N	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2018	8	21	SHOOTING	PACIFIC	WA	DEAD	LINEAR LACERATION ON BOTH EYES. INJURIES ARE CONSISTENT WITH FISHERY ENTANGLEMENT, EXCELLENT BODY CONDITION.	DEAD	NA	1	N	Y
HARBOR SEAL	SOUTHERN PUGET SOUND	2018	8	23	GILLNET FISHERY	PIERCE	WA	DEAD	FRESH DEAD CARCASS RECOVERED AND TRANSFERRED TO WDFW ON 8/26. EXAMINATION INDICATES FISHERIES INTERACTION WITH LACERATIONS TO EYES AND FACE.	DEAD	NA	1	Y	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2018	8	24	GILLNET FISHERY	KING	WA	DEAD	FRESH DEAD CARCASS RECOVERED AND TRANSFERRED TO WDFW ON 8/26. EXAMINATION INDICATES FISHERIES INTERACTION WITH LACERATIONS TO EYES AND FACE.	DEAD	NA	1	Y	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
HARBOR SEAL	SOUTHERN PUGET SOUND	2018	8	25	GILLNET FISHERY	THURSTON	WA	DEAD	BAND OF HEMORRHAGING IN BLUBBER AND DEEP MUSCLE AROUND NECK AND ON BACK NEAR RIGHT SHOULDER BLADE. EXCELLENT BODY CONDITION. ACTIVE GILLNET FISHING IN AREA. LIKELY ENTANGLEMENT.	DEAD	NA	1	Y	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2018	8	25	GILLNET FISHERY	KING	WA	DEAD	DEAD ANIMAL COLLECTED AND TRANSFERRED TO WDFW ON 8/26. EXAMINATION INDICATED FISHERIES INTERACTION, I.E. LACERATIONS AND IMPRESSIONS OF	DEAD	NA	1	Y	Y
HARBOR SEAL	SOUTHERN PUGET SOUND	2018	9	1	VESSEL STRIKE	PIERCE	WA	DEAD	REPORTED FRESH DEAD ON BEACH. APPEARED TO HAVE A INJURY ON R PELVIS/ BACK AREA. SEVERELY FRACTURED PELVIS AND LEFT HIND FLIPPER SEVERE ENOUGH TO KILL THIS ANIMAL. THE DEFINED LINEAR HEMORRHAGE IS CONSISTENT WITH BOAT PROPELLER INJURY.	DEAD	NA	1	N	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2018	9	14	HOOK & LINE FISHERY	PACIFIC	WA	DEAD	THE SEAL HAD INGESTED A SMALL FISHING LURE WITH HOOK AND LINE THAT PERFORATED THE INTESTINES WHILE ANIMAL WAS ALIVE (HEMORRHAGE PRESENT).	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2018	9	18	GILLNET FISHERY	KING	WA	DEAD	DEAD HARBOR SEAL PUP FOUND ON BEACH ENTANGLED IN GILL NET. NET SET FROM DRIFTWOOD ON BEACH TO BUOY OFFSHORE IN COVE OFF PUBLIC ACCESS BEACH.	DEAD	NA	1	Y	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2018	9	29	SHOOTING	ISLAND	WA	DEAD	GUNSHOT EVIDENCE FOUND DURING NECROPSY.	DEAD	NA	1	N	Y
HARBOR SEAL	WASHINGTON NORTHERN INLAND WATERS	2018	9	30	GILLNET FISHERY	WHATCOM	WA	DEAD	HEAD CUT OFF.	DEAD	NA	1	Y	Y
HARBOR SEAL	OREGON-WASHINGTON COAST	2018	12	31	SHOOTING	PACIFIC	WA	DEAD	OCCIPITAL AND PART OF PARIETAL SMASHED, CONSISTENT WITH GUNSHOT WOUNDS.	DEAD	NA	1	N	Y
HUMPBACK WHALE	CA-OR-WA	2014	4	27	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	MONTEREY	CA	SI	CDFW DUNGENESS CRAB TRAP + 200 FT OF LINE; FISHERMEN SET GEAR IN MONTEREY BAY. RESPONSE EFFORT INITIATED ON 4-27 IN MONTEREY, SATELLITE TAG APPLIED TO WHALE TO ALLOW TRACKING. WEATHER DID NOT ALLOW FOR DISENTANGLEMENT EFFORT IMMEDIATELY AND WHALE WAS TRACKED TO SANTA BARBARA, WHERE ON 14 MAY IT IS COMPLETELY DISENTANGLED BY WHALE ENTANGLEMENT TEAM (=RESCUE). DEEP LACERATION IS NOTED ON CAUDAL PEDUNCLE AND IS APPARENT FROM PHOTOS. GEAR DESCRIBED AS WRAPPED TIGHTLY AND TWISTED AROUND FLUKES THREE TIMES (=MULTIPLE WRAPS). ANIMAL WAS RESIGHTED IN JUNE 2014 IN MONTEREY AND INJURY WAS NO LONGER CONSIDERED LIFE-THREATENING.	NSI	L2	0	Y	N
HUMPBACK WHALE	CA-OR-WA	2014	5	1	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	MONTEREY	CA	SI	MULTIPLE WRAPS. CONSTRICTING GEAR OF MODERATE GAUGE, LIKELY BLUE STEEL LINE, AROUND BODY AND LIKELY AROUND RIGHT PECTORAL FLIPPER, SUCH THAT THE RIGHT FLIPPER IS PULLED LATERALLY AND UP TOWARDS THE SURFACE. NO GEAR OBSERVED TRAILING. ANIMAL ASSESSED BUT NO RESPONSE. POTENTIALLY LIFE THREATENING ENTANGLEMENT. DESCRIBED AS CRAB POT GEAR ON MARINELIFE STUDIES.ORG NARRATIVE. CLASSIFIED AS 'L2' DUE TO DESCRIPTION OF GEAR BEING TIGHTLY WRAPPED AROUND ANIMAL. FINAL OUTCOME	SI	L2	1	Y	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
HUMPBACK WHALE	CA-OR-WA	2014	5	6	DUNGENESS CRAB POT FISHERY (OREGON)	GRAYS HARBOR	WA	SI	SUCCESSFUL DISENTANGLEMENT OF WHALE BY CASCADIA RESEARCH (=RESCUE). WHEN ENCOUNTERED, WHALE WAS IMMOBILIZED BY GEAR AROUND TAILSTOCK AND FLUKES (=ANCHORED). WHALE WAS DESCRIBED AS ONLY MOVING VERTICALLY IN THE WATER COLUMN, WITH LITTLE HORIZONTAL MOVEMENT. THE WHALE SWAM RAPIDLY AWAY AFTER DISENTANGLEMENT AND WAS NOT RESIGHTED. GEAR POSITIVELY-IDENTIFIED AS OREGON CRAB POT GEAR BY BUOY NUMBER. GEAR HAD BEEN SET 50 MILES SOUTH OF WHERE WHALE WAS ENCOUNTERED APPROXIMATELY ONE WEEK PRIOR. ANIMAL LIKELY TO HAVE RECOVERED BASED ON BEHAVIOR UPON RELEASE AND RELATIVELY SHORT TIME SPAN OF ENTANGLEMENT (1 WEEK).	NSI	L2	0	Y	N
HUMPBACK WHALE	CA-OR-WA	2014	5	6	UNIDENTIFIED FISHERY INTERACTION	SAN LUIS OBISPO	CA	SI (PRORATE)	DRAGGING SIGNIFICANT AMOUNT OF GEAR OFF PISMO BEACH; HEADING SLOWLY NORTH; POSSIBLY LIFE THREATENING; NO IMMEDIATE RESPONSE POSSIBLE DUE TO WEATHER. SEVERITY OF ENTANGLEMENT AND CONFIGURATION OF GEAR UNKNOWN. FINAL OUTCOME UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2014	5	22	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	LOS ANGELES	CA	DEAD	BLUE / GREEN POLYPROPYLENE LINE AND FIVE ASSOCIATED BULLET BUOYS FOUND ON A SEVERED PAIR OF HUMPBACK FLUKES WEST OF SAN CLEMENTE ISLAND. PHOTOS AND SAMPLE TAKEN BY BIOLOGIST J. STAHL. NUMBERS ON BUOYS IDENTIFIED IT AS CALIFORNIA DUNGENESS CRAB POT GEAR SET IN THE FARALLONS AND HALF MOON BAY AREA IN MARCH/APRIL. TWO SETS OF GEAR ON SAME WHALE. SPECIES ID VIA GENETICS AT SWFSC. CONSTRICTING GEAR AND DEEP LACERATION CONFIRMED BASED ON RECOVERY OF SEVERED FLUKES. DEAD WHALE FOUND ON JUNE 5TH 2014 OFF SAN CLEMENTE APPARENTLY LINKED TO THIS RECORD.	DEAD	NA	1	Y	Y
HUMPBACK WHALE	CA-OR-WA	2014	6	5	CA SPOT PRAWN TRAP FISHERY	SANTA BARBARA	CA	SI	SPOT PRAWN TRAPS - ENTANGLED IN MIDDLE OF 10 TRAP SET WITH OVER 2,000 FEET OF GREEN AND BLACK POLYPROPYLENE ROPE AND ANCHOR. ROPE ENCIRCLED MIDDLE OF WHALE A COUPLE OF TIMES (= MULTIPLE WRAPS) AND PINNED ONE OF THE WHALE'S PECTORAL FLIPPERS (= CONSTRICTING WRAP). FLUKES WERE IMMOBILIZED AS WELL (=ANCHORED). GEAR TYPE CONFIRMED BY BUOY NUMBERS AND FISHERMAN WHO WAS CONTACTED. GEAR HAD BEEN SET APPROX. 2 MILES FROM WHERE WHALE WAS FOUND. RESCUE EFFORT INITIATED, ANIMAL COMPLETELY DISENTANGLED AND SWAM TOWARDS SANTA CRUZ ISLAND. ASSUME THAT WHALE RECOVERED AS IT HAD BEEN FULLY RELEASED FROM GEAR AND SWAM AWAY. SOME DETAILS OF THIS ACCOUNT WERE TAKEN FROM THE CONDOR EXPRESS VESSEL WEBSITE: http://condorexpress.com/blog/2014/06/08/entangled-deep-entanglement-wounds-on-tail-stock (= DEEP LACERATION; CONSTRICTING GEAR); DEAD STRANDING; NOT WHALE FROM 4/27/2014 - CONFIRMED VIA PHOTO ID; GEAR DOES NOT APPEAR TO BE PRESENT ON CARCASS.	NSI	L2	0	Y	N
HUMPBACK WHALE	CA-OR-WA	2014	6	27	UNIDENTIFIED FISHERY INTERACTION	SAN LUIS OBISPO	CA	DEAD	ENTANGLED WITH SIGNIFICANT WRAPS OF LINE AND GEAR AROUND BODY. PHOTOS OF LARGE GAUGE ROPE CUTTING THROUGH PECTORAL FLIPPER AND WRAPPED AROUND BODY (=CONSTRICTING GEAR; -DEEP LACERATION). REPORTING PARTY APPROACHED THE WHALE IN AN ATTEMPT TO REMOVE GEAR, BUT WHALE DOVE AND WAS NOT RESIGHTED. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. FINAL STATUS	DEAD	NA	1	Y	Y
HUMPBACK WHALE	CA-OR-WA	2014	7	19	UNIDENTIFIED FISHERY INTERACTION	SAN DIEGO	CA	SI		SI	L2	1	Y	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
HUMPBACK WHALE	CA-OR-WA	2014	7	25	VESSEL STRIKE	MONTEREY	CA	NSI	WHALE SURFACED 30 FEET IN FRONT OF 57.8 FT COMMERCIAL FISHING VESSEL MOVING AT 7.5 KTS. VESSEL LARGER THAN WHALE. WHALE SLAPPED TAIL AND APPARENTLY STRUCK BOW. WHALE DESCRIBED AS UNINJURED. SUPERFICIAL DAMAGE ON VESSEL ABOVE WATERLINE. WHALE RESURFACED AND DOVE WITH NO APPARENT INJURY. LARGE WHALE CRITERIA L6C APPLIED FOR NON-SERIOUS INJURY AS VESSEL WAS MOVING <10 KTS AND NO DISCERNABLE INJURY TO WHALE.	NSI	L6C	0	N	N
HUMPBACK WHALE	CA-OR-WA	2014	8	16	UNIDENTIFIED FISHERY INTERACTION	GRAYS HARBOR	WA	DEAD	FRESHLY DEAD, SIGNS OF RECENT ENTANGLEMENT AT TAILSTOCK AND FLUKES: 3-5 LINES, TISSUE NECROTIC, CELLULITIS. NO LINES OR GEAR RECOVERED. PHOTOS SENT TO CA, NO MATCH TO RECENTLY DISENTANGLED WHALES. DID NOT MATCH WHALE DISENTANGLED OFF WA COAST EARLIER THIS YEAR. POSTMORTEM EVIDENCE OF CONSTRICTING GEAR, DEEP LACERATION, AND MULTIPLE WRAPS.	DEAD	NA	1	Y	Y
HUMPBACK WHALE	CA-OR-WA	2014	8	28	DUNGENESS CRAB POT FISHERY	MONTEREY	CA	SI	DUNGENESS CRAB TRAP ATTACHED TO WHALE PERFORMING HEAD RAISES AND CHIN SLAPS; SELF RELEASE AFTER BOAT FENDER WAS ATTACHED AS MEANS OF RELOCATING ANIMAL, RESIGHTED GEAR FREE. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN.	NSI	L3	0	Y	N
HUMPBACK WHALE	CA-OR-WA	2014	9	12	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	MONTEREY	CA	SI (PRORATE)	ENTANGLED HUMPBACK WHALE WITH TWO BULLET BUOYS TRAILING ORANGE AND YELLOW AND 10-20 FT OF LINE. ANIMAL LOST DUE TO BAD SEA STATE CONDITIONS; LIKELY TRAP; ENTANGLEMENT IS BELIEVED TO INVOLVE PECTORAL FLIPPERS AND MOUTH. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. FINAL OUTCOME ENTANGLED IN 25 TRAP SET FOR SPOT PRAWN. SOME GEAR WAS REMOVED (=RESCUE) AND WHALE SHED REST OF GEAR AND SATELLITE PACKAGE. GEAR RETRIEVED BUT SATELLITE PACKAGE LOST (=GEAR FREE). POSSIBLE RESIGHT OF WHALE SEEN PREVIOUS DAY?	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2014	9	13	CA SPOT PRAWN TRAP FISHERY	MONTEREY	CA	SI	SEEN BY NOAA BIOLOGIST (SB) DURING LEATHERBACK SURVEYS OFF SEAL ROCK AREA. WHALE TRAILING 3 YELLOW BUOYS AND 150 OF LINE. ESTIMATED TRAVEL AT 5 KTS. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. FINAL OUTCOME UNKNOWN.	NSI	L3	0	Y	N
HUMPBACK WHALE	CA-OR-WA	2014	9	19	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	LINCOLN	OR	SI (PRORATE)	SPOT PRAWN TRAPS - ENTANGLED WITH 25 TRAP SET-- INITIALLY CUT OFF SOME GEAR (=RESCUE) BUT WHALE SHED REST OF GEAR AND SATELLITE PACKAGE LATER. GEAR RETRIEVED BUT SATELLITE PACKAGE LOST (=GEAR FREE). GEAR INVOLVED SAME VESSEL AS 9/13 ENTANGLEMENT. VESSEL HAD SET GEAR IN CLOSE PROXIMITY AND BOTH GEAR SETS ENTANGLED DIFFERENT WHALES WITHIN A WEEK.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2014	9	20	CA SPOT PRAWN TRAP FISHERY	MONTEREY	CA	SI	SEEN BY NOAA BIOLOGIST (SB) DURING LEATHERBACK SURVEYS OFF LA PUSH, WA. WHALE TRAILING 3 YELLOW AND ONE RED BUOY MULTIPLE TRAILING LINES. NOT A RESIGHT OF WHALE SEEN PREVIOUS DAY BECAUSE DISTANCE COVERED (240 MILES) IS TOO GREAT. PHOTO AVAILABLE. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. FINAL OUTCOME UNKNOWN.	NSI	L3	0	Y	N
HUMPBACK WHALE	CA-OR-WA	2014	9	20	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	CLALLAM	WA	SI (PRORATE)	FREE SWIMMING ANIMAL; CARRYING BUOYS LIKELY SAME SET FROM 9/20/14 THAT WAS SHED FROM OTHER ANIMAL. ASSUMED TO BE DIFFERENT ANIMAL BECAUSE OF LACK OF DETAIL ON RECORD. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. FINAL STATUS UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2014	9	21	CA SPOT PRAWN TRAP FISHERY	MONTEREY	CA	SI (PRORATE)	CONFIGURATION OF GEAR UNKNOWN. FINAL STATUS UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

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HUMPBACK WHALE	CA-OR-WA	2014	10	5	VESSEL STRIKE	SAN DIEGO	CA	SI	DEEP LACERATION ACROSS BACK BETWEEN BLOWHOLE AND DORSAL FIN. LACERATION APPROXIMATELY 4 INCHES LONG AND 10 INCHES DEEP. MAINLY USING LEFT PECTORAL FLIPPER FOR MOBILITY, OCCASIONALLY FLUKES, NOT AT ALL WITH RIGHT PECTORAL FLIPPER. ASSUMPTION IS VESSEL STRIKE. DID NOT APPEAR TO BE TOO THIN, BUT IT WAS OBVIOUS THIS ANIMAL WAS UNABLE TO DIVE OR USE ITS RIGHT PECTORAL FLIPPER AND ONLY SOME MOVEMENT FROM TAIL FLUKES.	SI	LSA	1	N	Y
HUMPBACK WHALE	CA-OR-WA	2014	10	11	WA/OR/CA SABLEFISH POT FISHERY	OFFSHORE	OR	DEAD	A HUMPBACK WHALE WAS OBSERVED ENTANGLED DEAD IN SABLEFISH POT GEAR APPROX. 35 MILES W OF CANNON BEACH. THE ENTANGLEMENT OCCURRED IN 145 FATHOMS OF WATER AND THE WHALE WAS DISCOVERED WRAPPED IN THE GROUND LINE THREE POTS IN FROM THE END OF THE STRING. THE GROUND LINE IS REPORTED AS SINKING TYPE (LEAD LINE) WHEN BROUGHT TO THE SURFACE THE OBSERVER ON BOARD REPORTED THERE WAS NO DISCERNABLE MOVEMENT.	DEAD	NA	1	Y	Y
HUMPBACK WHALE	CA-OR-WA	2014	10	12	VESSEL STRIKE	SAN DIEGO	CA	SI	ANIMAL FIRST SIGHTED ALIVE OFF ORANGE COUNTY OCTOBER 3RD WITH HEALING DORSAL PROPELLOR WOUND AND LIMITED MOBILITY. SIGHTED ALIVE AGAIN OFF OCEANSIDE OCT. 6 AND DEL MAR OCT. 7, 3/4 MILE OFFSHORE. MULTIPLE VERTEBRAL, RIB, SCAPULAR FRACTURES, AND HEMORRHAGE OBSERVED AT NECROPSY. DETAILS OF LACERATION / INJURY LACKING WHEN ANIMAL SEEN ALIVE.	DEAD	NA	1	N	Y
HUMPBACK WHALE	CA-OR-WA	2014	10	24	SCIENTIFIC RESEARCH	MONTEREY	CA	SI	WHALE ENTANGLED AROUND CAUDAL PEDUNCLE IN A WAVE RIDER BUOY THAT STOPPED TRANSMITTING ON 4 OCTOBER. A TEAM WAS SENT TO CHECK ON BUOY FOUND THE ENTANGLED HUMPBACK WHALE IN BUOY LINES ON 24 OCTOBER. WHALE WAS DESCRIBED AS 'WEAK' AND 'STRUGGLING'. WHALE LICE (=CYAMIDS) WERE PRESENT AND THE CONDITION OF THE SKIN IMPLIED A HEALTH DECLINE. ENTANGLED IN BUNGEE BETWEEN 10 FT CHAIN AND LINE THAT RUNS TO 300 LB ANCHOR; VIDEO AND PHOTOS SHOWED SEVERE ENTANGLEMENT AND DEEP LACERATION AT CAUDAL PEDUNCLE WITH SUBSTANTIAL NECROTIC TISSUE. SUCCESSFULLY DISENTANGLED 10/29/14, BUT CONSIDERED A SERIOUS INJURY DUE TO CONSTRICTING NATURE OF GEAR, LENGTH OF TIME WHALE WAS ENTANGLED, NECROTIC CONDITION OF FLUKES, AND OVERALL POOR HEALTH OF WHALE.	SI	L2	1	N	Y
HUMPBACK WHALE	CA-OR-WA	2014	11	11	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	MONTEREY	CA	SI (PRORATE)	FREE-SWIMMING WHALE REPORTED AS ENTANGLED, LIKELY CRAB POT. UNKNOWN CONFIGURATION AND AMOUNT OF GEAR. FINAL OUTCOME UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2015	1	8	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI (PRORATE)	WHITE CIGAR BUOY ON LEFT SIDE OF WHALE BETWEEN MOUTH AND PECTORAL FIN, BLUE STEEL LINE OBSERVED, ABRASIONS ON LEADING EDGE OF FLUKES. ANIMAL WAS SEEN FLUKING / DIVING BASED ON PHOTOS. NOTHING ELSE WAS VISIBLE OTHER THAN THE WHITE CIGAR BUOY. PHOTOS REVIEWED. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. FINAL OUTCOME UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2015	1	19	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	MONTEREY	CA	SI (PRORATE)	3 BUOYS TRAILING ABOUT 150 FT BEHIND THE WHALE WITH POSSIBLE MOUTH/PECTORAL FIN ENTANGLEMENT. CA DUNGENESS CRAB TIER 1 GEAR. WHALE WAS NOT FLUKING SO COULDN'T SEE THE TAIL. DIVING, SWIMMING ABOUT 5 KNOTS. WHALE SWIMMING AND DRAGGING 1ST FLOAT UNDERWATER. COULDN'T SEE WHERE LINE ORIGINATED. FRESH ABRASIONS VISIBLE ON TOP OF PEDUNCLE AND BEHIND DORSAL INDICATING RECENT MIGRATION OF THE GEAR FROM THE DORSAL FIN BACK TO THE TAIL. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. FINAL OUTCOME UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y

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Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
HUMPBACK WHALE	CA-OR-WA	2015	2	16	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI (PRORATE)	1-2 INCH LINE WRAPPED OVER DORSAL SIDE OF WHALE BETWEEN BLOWHOLE AND DORSAL FIN. ROPE IS FOULED WITH KNOTS AND TWISTS; AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. FINAL OUTCOME GEAR WAS SET NEAR MOSS LANDING ON 2/11;	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2015	2	17	DUNGENESS CRAB POT FISHERY (RECREATIONAL)	MONTEREY	CA	SI (PRORATE)	ENTANGLEMENT OCCURRED SOMETIME BETWEEN 2/11-15TH; 2-3 ORANGE BOUYS TRAILING APPROX 10 FT BEHIND WHALE; POSSIBLE MOUTH/PECTORAL FLIPPER ENTANGLEMENT AS REPORTED BY RESPONDERS; CONVERSATION WITH FISHERMAN: 1 CRAB POT SET ON 300 FT OF LINE IN 173 FT OF WATER. CONFIGURATION AND AMOUNT OF GEAR UNKNOWN. FINAL STATUS	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2015	3	6	UNIDENTIFIED FISHERY INTERACTION	SANTA CRUZ	CA	DEAD	SIGNIFICANT EVIDENCE OF A PREVIOUS ENTANGLEMENT AND POSSIBLY MULTIPLE ENTANGLEMENTS ON A MODERATELY-DECOMPOSED STRANDING. LINE MARKS WERE OBSERVED AROUND THE PEDUNCLE AT THE LEVEL OF THE GENITAL SLIT, AT THE CRANIAL MARGIN OF THE RIGHT PECTORAL FIN, AND AT THE CAUDAL MARGIN OF THE RIGHT PECTORAL FIN. THERE WAS ALSO A MODERATE LINE MARK THAT RAN TRANSVERSALLY ACROSS THE CENTRAL PLEATS AT THE LEVEL OF THE AXILLA. THESE WOUNDS WERE IN THE PROCESS OF HEALING.	DEAD	NA	1	Y	Y
HUMPBACK WHALE	CA-OR-WA	2015	3	23	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	MEXICO	MEXICO	SI	DEEPLY EMBEDDED LINE ON LEFT TAIL FLUKE (= CONSTRUCTING ENTANGLEMENT). HIGH CYANID LOAD, EMACIATED WHALE, 10 METERS OF TRAILING LINE AND 2 LARGE BULLET BUOYS. THIS RECORD WAS ADDED TO THE DATABASE IN 2017 AFTER RECEIPT FROM WHALE WATCHING CO. IN MEXICO. PHOTOS APPARENTLY AVAILABLE, BUT NOT REVIEWED. CONSIDERED A SERIOUS INJURY UNDER CATEGORY L2 (CONSTRUCTING GEAR) AND CONSIDERING POOR CONDITION OF WHALE. FISHERY POSITIVELY-IDENTIFIED FROM TRAP TAG AND / OR BUOY	SI	L2	1	Y	Y
HUMPBACK WHALE	CA-OR-WA	2015	3	26	UNIDENTIFIED FISHERY INTERACTION	SANTA CRUZ	CA	SI	ENTANGLEMENT SIGNIFICANTLY EMBEDDED, TIGHT WRAP BUT TAIL IS FREE, COULDN'T SEE ANY GEAR IN THE MOUTH. CATEGORIZED AS L2 BECAUSE OF CONSTRUCTING WRAP. NO PHOTOS TO REVIEW. CONFIGURATION AND AMOUNT OF GEAR UNKNOWN. FINAL OUTCOME	SI	L2	1	Y	Y
HUMPBACK WHALE	CA-OR-WA	2015	5	4	VESSEL STRIKE	SAN MATEO	CA	DEAD	LIMITED NECROPSY REVEALED HEMORRHAGING ON THE LEFT LATERAL SIDE AT END OF RIBS. FOUR PROCESSES OF LUMBAR VERTEBRAE WERE BROKEN BENEATH HEMORRHAGING. GOOD BLUBBER THICKNESS AND BODY CONDITION. EXTENSIVE PARASITES IN GI TRACT. CAS-ACC-6993	DEAD	NA	1	N	Y
HUMPBACK WHALE	CA-OR-WA	2015	5	14	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	MONTEREY	CA	SI (PRORATE)	WHALE TOWING 2 YELLOW BUOYS (ONE WITH A SMALL WHITE BUOY ATTACHED AS EXTRA FLOTATION), ORANGE TRAP TAG PRESENT BUT UNREADABLE, BUOY NUMBER , PHOTOS AVAILABLE, CDFW DUNGENESS TIER 6 PERMIT. UNCERTAINTY REGARDING IF WHALE SELF-RELEASED FROM GEAR, NOT CONFIRMED, THUS TREATED AS AN L10 SERIOUS INJURY BECAUSE GEAR CONFIGURATION AND AMOUNT IS UNKNOWN. FINAL OUTCOME UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2015	5	16	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	SANTA BARBARA	CA	NSI	ANIMAL LIKELY HAS LINE THROUGH MOUTH AND TRAILS TO EITHER SIDE TO LENGTH OF BODY. BOTH SIDES TERMINATED BY SPONGEX BUOYS (GREEN WITH RED TO ON ONE SIDE AND WHITE ON THE OTHER.) ANIMAL APPEARS IN GOOD CONDITION, FEEDING WITH OTHER ANIMALS. WHALE OBSERVED ACTIVELY FEEDING WITH OTHER ANIMALS. FEEDING ANIMAL IMPLIES THAT GEAR IS LOOSE, THUS L3 DETERMINATION MADE. FINAL OUTCOME UNKNOWN AS GEAR CONFIGURATION AND AMOUNT IS UNKNOWN, WITH POTENTIAL TO BECOME PROBLEMATIC. PHOTOS REVIEWED BY J. CARRETTA.	NSI	L3	0	N	N

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
HUMPBACK WHALE	CA-OR-WA	2015	5	24	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI (PRORATE)	STATIONARY WHALE BREATHING AT SURFACE, ASSOCIATED WITH BUOY WITH PARTIAL TAG NUMBER. WHALE APPARENTLY ANCHORED AS EVIDENCED BY LACK OF MOVEMENT. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. FINAL OUTCOME UNKNOWN. NO PHOTOS.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2015	5	28	UNIDENTIFIED FISHERY INTERACTION	ORANGE	CA	SI	DISCOVERED 6/27/15 WHEN DANA WHARF SPORTFISHING EXAMINED 5/28 PHOTOS. AT LEAST ONE WRAP OF HEAVY GAUGE MONOFILAMENT LINE, LIKELY REPRESENTING LONGLINE GEAR, AROUND THE ANIMAL'S PEDUNCLE AND FLUKE. GEAR IS ALREADY DEEPLY EMBEDDED (=CONSTRICTING ENTANGLEMENT) AND WOUNDS APPEAR FRESH. AMOUNT AND CONFIGURATION OF GEAR TRAILING UNKNOWN. SI DETERMINATION CRITERION L2 APPLIED AS THERE IS EVIDENCE THAT GEAR IS CONSTRICTING. FINAL OUTCOME UNKNOWN. PHOTOS ENTANGLED WITH CRAB POT GEAR WHICH HAD BEEN LOST PREVIOUS YEAR. UNKNOWN DURATION OF ENTANGLEMENT, NO ASSUMPTION IS MADE THAT ENTANGLEMENT STARTED WHEN GEAR WAS LOST, AS GHOST GEAR IS ROUTINELY INVOLVED IN ENTANGLEMENTS AFTER LOSS. WHALE THRASHING AROUND IN RELATIVELY SHALLOW WATER. WHALE SELF-RELEASED FROM GEAR AND/OR GEAR BROKE FREE ON ROCKS IN SHALLOW WATER. THE FISHERY WAS IDENTIFIED BY BUOY NUMBERS. TRAP AND ROPE REPORTED AS 'EXTREMELY SHREDDED'. FISHERMAN CONFIRMED THAT ALL GEAR WAS RETRIEVED, THUS ASSIGNED A NON-SERIOUS INJURY BASED ON THE SELF-RELEASE OF ANIMAL. RESPONSE TEAM INCLUDED K. FORNEY, WHO RETRIEVED GEAR. PHOTOS OF WHALE NOT AVAILABLE. FINAL OUTCOME UNKNOWN. GEAR PHOTOS REVIEWED BY J.	SI	L2	1	Y	Y
HUMPBACK WHALE	CA-OR-WA	2015	6	9	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	MONTEREY	CA	SI (PRORATE)	WHALE REPORTED AS FLOPPING AROUND IN NETTING 0.5 FROM SHORE. REPORT ALSO DETAILS A CRUSHED WHITE BUOY ASSOCIATED WITH THE SIGHTING. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. FINAL OUTCOME UNKNOWN.	NSI	L3	0	Y	N
HUMPBACK WHALE	CA-OR-WA	2015	6	12	UNIDENTIFIED FISHERY INTERACTION	SANTA CRUZ	CA	SI (PRORATE)	REPORTED BY USCG. WHALE WITH BUOYS (ONE YELLOW, ONE WHITE) AND ROPE NEAR HEAD, ANOTHER BUOY NEAR FLUKES (NOT APPARENT IN PHOTOS). WHALE SHOWS RIDGE BETWEEN HEAD AND DORSAL FIN, INDICATING SOME EMACIATION AND APPARENT HEALTH DECLINE. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. PHOTOS REVIEWED BY J. CARRETTA AND A.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2015	6	21	UNIDENTIFIED FISHERY INTERACTION	SANTA CRUZ	CA	SI	WHALE REPORTED SWIMMING IN CIRCLES OFF CAPITOLA WITH YELLOW AND ORANGE BUOYS NEAR HEAD. NO PHOTOS. FULL GEAR CONFIGURATION UNKNOWN. LACK OF ORANGE BUOY(S) REPORTED FROM PREVIOUS-DAY	SI	L10	1	Y	Y
HUMPBACK WHALE	CA-OR-WA	2015	6	22	UNIDENTIFIED FISHERY INTERACTION	SANTA CRUZ	CA	SI (PRORATE)	WHALE IS EVIDENCE THAT THIS IS A UNIQUE CASE. AMOUNT AND CONFIGURATION OF GEAR AND FINAL OUTCOME UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2015	6	25	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	MONTEREY	CA	SI	WHALE INITIALLY PHOTOGRAPHED ON 6/25 TRAILING THREE BUOYS AND APPROX. 125 FT. OF ROPE. DEEP LACERATIONS ON CAUDAL PEDUNCLE AND FLUKE / TAIL STOCK INTERSECTION, APPEARED TO BE FRESH WOUNDS. WHALE SUBSEQUENTLY PHOTOGRAPHED ON 7/16, STILL TRAILING GEAR. WHALE APPARENTLY SELF-RELEASED FROM GEAR AFTER SATELLITE PACKAGE WAS ATTACHED TO GEAR. GEAR WAS RECOVERED ON 7/24 AND IDENTIFIED AS DUNGENESS CRAB POT GEAR. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. PHOTOS	NSI	L2	0	Y	N

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
HUMPBACK WHALE	CA-OR-WA	2015	6	27	DUNGENESS CRAB POT FISHERY (WASHINGTON)	VANCOUVER ISLAND	BRITISH COLUMBIA	SI (PRORATE)	WEST SIDE OF VANCOUVER ISLAND NEAR CAPE BEALE. REPORTED ENTANGLED IN ORANGE BUOYS AND LINE. WHALE LAST SEEN ENTANGLED. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. FISHERY SOURCE CONFIRMED FROM PHOTOS OF TRAP TAG AND / OR BUOY NUMBERS. RECORD ADDED TO DATABASE IN 2017 AFTER RECEIPT FROM DFO CANADA. FINAL OUTCOME	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2015	7	3	DUNGENESS CRAB POT FISHERY (OREGON)	MONTEREY	CA	SI	PHOTOGRAPHS SHOWED CIRCUMFERENTIAL CONSTRICTING INJURY BEHIND BLOW HOLE. ROPES EXTENDED THROUGH THE MOUTH AND RAN TIGHTLY OVER ITS BACK DEFORMING THE LEFT SIDE OF THE HEAD, AND WOUND AROUND ITS RIGHT FLIPPER, TRAILING A TANGLE OF LINES AND PINK BUOYS. FISHERMAN CONFIRMED GEAR WAS SET OFF CAPE MEARES, OREGON IN DECEMBER (OREGON FISHERY). RESCUE RESPONSE EFFORT RESULTED IN THE REMOVAL OF ALL GEAR EXCEPT FOR A SMALL AMOUNT OF EMBEDDED LINE LEFT BEHIND EXPECTED TO BE SHED BY ANIMAL AS IT HEALS. CATEGORIZED AS L3 / NSI BECAUSE OF GEAR REMOVAL AND PROGNOSIS FOR SURVIVAL. FINAL OUTCOME	NSI	L2	0	Y	N
HUMPBACK WHALE	CA-OR-WA	2015	7	7	GILLNET FISHERY	CLALLAM	WA	SI (PRORATE)	THE ENTANGLEMENT IS DESCRIBED AS EXTENSIVE AROUND THE BODY WITH BOTH MESH AND LINE. MESH TYPE UNKNOWN. NO DIRECTION OF TRAVEL. WHALE APPEARS STATIONARY, POSSIBLY ANCHORED. NO PHOTOS. AMOUNT AND CONFIGURATION OF GEAR AND FINAL OUTCOME UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2015	7	12	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	MENDOCINO	CA	SI (PRORATE)	4 ORANGE AND WHITE BULLET BUOYS DESCRIBED AS CRAB BUOYS BEING TRAILED APPROX. 30 FT. BEHIND ANIMAL. NO PHOTOS. AMOUNT AND CONFIGURATION OF GEAR AND FINAL OUTCOME UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2015	7	13	UNIDENTIFIED FISHERY INTERACTION	MENDOCINO	CA	SI (PRORATE)	HUMPBACK TRAILING MULTIPLE BLACK AND WHITE BUOYS, MULTIPLE BODY LENGTHS BEHIND WHALE. AMOUNT AND CONFIGURATION OF GEAR AND FINAL OUTCOME UNKNOWN. BUOY COLORS DIFFER FROM 7/12 SIGHTING IN SAME AREA, NOT A RESIGHT. PHOTOS REVIEWED BY J. CARRETTA.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2015	7	19	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI (PRORATE)	AT LEAST 2 ORANGE/PINK BUOYS FOULED TRAILING CLOSE BEHIND THE RIGHT SIDE OF THE ANIMAL - ENTANGLEMENT APPEARS TO BE FORWARD OF THE PEDUNCLE. KELP APPEARS TO BE ALSO WRAPPED UP IN THE ENTANGLEMENT BUT ON THE LEFT SIDE OF THE WHALE. ANIMAL REPORTED TO BE FEEDING AND SWIMMING NORMALLY. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN AND POTENTIAL FOR SERIOUS INJURY EXISTS OVER TIME. PHOTOS REVIEWED BY J.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2015	8	10	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	MONTEREY	CA	SI (PRORATE)	AT LEAST 2 RED / WHITE BUOYS BEING TRAILED BY WHALE, ABRASIONS ON LEADING EDGE OF FLUKES. CONFIGURATION AND AMOUNT OF GEAR IS UNKNOWN. A TELEMETRY BUOY WAS ATTACHED TO GEAR AND THE WHALE WAS TRACKED TRAVELING TO NEAR THE U.S./MEXICO BORDER BY 8/14 AND THEN WAS LAST DETECTED AGAIN ON 9/4 FAR OFFSHORE OF MONTEREY BAY BEFORE TRANSMISSIONS FAILED. THE WHALE WAS NOT VISUALLY RELOCATED DURING THIS TIME. FINAL OUTCOME UNKNOWN. PHOTOS REVIEWED BY J.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2015	8	26	UNIDENTIFIED FISHERY INTERACTION	VENTURA	CA	SI (PRORATE)	TRAILING TWO ORANGE TORPEDO BUOYS APPROX. 100 FT. BEHIND ANIMAL WITH GREEN/BLUE LINE/ROPE. GEAR NOT VISIBLE AND CONFIGURATION AND AMOUNT OF GEAR UNKNOWN. PHOTOS REVIEWED BY J. CARRETTA.	SI (PRORATE)	L10	0.75	Y	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
HUMPBACK WHALE	CA-OR-WA	2015	9	10	UNIDENTIFIED FISHERY INTERACTION	ORANGE	CA	SI (PRORATE)	REPORTED BY FREE DIVER. 1/2 INCH YELLOW LINE WRAPPED AROUND BODY IN FRONT OF PECTORAL FLIPPER AND YELLOW/WHITE BUOY ATTACHED SITTING ON THE BACK, 25 FEET OF TRAILING LINE, NO PHOTOS. FULL GEAR CONFIGURATION UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2015	9	14	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI (PRORATE)	NO TRAILING BUOYS, BLUE ROPE BEHIND DORSAL AROUND BODY IN FRONT OF FLUKES, SWIMMING WITH ANOTHER WHALE. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. NO PHOTOS.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2015	9	24	VESSEL STRIKE	CLATSOP	OR	SI (PRORATE)	AN ARTICULATED TUG AND BARGE REPORTING STRIKING A HUMPBACK WHALE OF UNKNOWN SIZE IN THE COLUMBIA RIVER. THE ANIMAL WAS SIGHTED IMMEDIATELY AFTER THE COLLISION AND ROLLED OVER. COLUMBIA RIVER BAR PILOTS FLEW OVER THE AREA WITH THEIR HELICOPTER AND STATED THE WHALE WAS SWIMMING AROUND NORMALLY. NO DATA ON VESSEL SIZE AND SPEED. BASED ON OTHER ARTICULATED TUGBOAT / BARGE SIZES, IT IS ASSUMED THE VESSEL WAS MUCH LARGER THAN THE WHALE (VESSEL SIZE > 65 FT).	SI (PRORATE)	L7A	0.56	N	Y
HUMPBACK WHALE	CA-OR-WA	2015	9	25	DUNGENESS CRAB POT FISHERY (OREGON)	SANTA BARBARA	CA	SI	OREGON DUNGENESS CRAB GEAR (2 SETS OF GEAR WITH 250 FT. OF LINE). ORANGE / RED BUOYS WITH LINE LACERATING INSERTION POINT OF PECTORAL FLIPPER (=CONSTRUCTING ENTANGLEMENT). PHOTOS SHOW AN OPEN WOUND AT BASE OF PECTORAL FLIPPER. 10/31 RESCUE EFFORT RESULTED IN A SIGNIFICANT AMOUNT OF GEAR BEING REMOVED. REMAINING GEAR CONSISTED OF A SINGLE PASS OF GEAR THROUGH THE MOUTH, WHICH WILL PROBABLY BE SHED BY ANIMAL. NON-SERIOUS INJURY AS A RESULT OF RESCUE EFFORT TO REMOVE CONSTRICTING GEAR. UPDATED INFORMATION MADE AVAILABLE IN 2017 INCLUDED A POSITIVE IDENTIFICATION OF SOURCE FISHERY FROM TRAP TAG AND BUOY NUMBERS. GEAR ORIGINALLY SET JUST NORTH OF CALIFORNIA / OREGON BORDER. FINAL OUTCOME	NSI	L2	0	Y	N
HUMPBACK WHALE	CA-OR-WA	2015	9	26	UNIDENTIFIED FISHERY INTERACTION	ORANGE	CA	SI	WHALE SEEN WITH GREEN 55 GALLON DRUM OR RUBBER DOCK FENDER AND LINE WRAPPED AROUND HEAD, BETWEEN PECTORAL FLIPPERS AND BLOWHOLE. DRUM IS ABOVE WATER WHEN WHALE SURFACES AND LINE WRAPS COMPLETELY AROUND ANIMAL LIKE A BRIDLE. MULTIPLE SIGHTINGS OF WHALE FROM SEPTEMBER TO NOVEMBER. UNDERWATER AND ABOVE-WATER PHOTOS OF WHALE SHOW A VERY EMACIATED ANIMAL. SERIOUS INJURY WITH CONSTRICTING GEAR AND POOR ANIMAL CONDITION. HEALTH DECLINE. PHOTOS REVIEWED BY J. CARRETTA AND J. BARLOW.	SI	L2	1	Y	Y
HUMPBACK WHALE	CA-OR-WA	2015	9	27	GILLNET FISHERY	VENTURA	CA	SI (PRORATE)	GILLNET WRAPPED AROUND AND COVERING MOST OF TAIL WITH LINE AND NETTING TRAILING 40 FEET BEHIND WHALE ; BLUE (LEAD) AND WHITE (FLOAT) LINES AND NETTING BETWEEN. NO PHOTOS, UNKNOWN GEAR CONFIGURATION OR AMOUNT.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2015	9	29	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	ORANGE	CA	SI (PRORATE)	YELLOW POLY ROPE WRAPPED AROUND CAUDAL PEDUNCLE, 20-30 FEET OF LINE TRAILING, 1 SMALLER WHITE FOAM BUOY CLOSER TO FLUKE; ONE YELLOW/WHITE FLOAT WITH DUNGENESS CRAB TRAP TAG BUOY TIER 4 CA ON LINE TOWARDS THE END OF THE LINE. NO PHOTOS / VIDEO TO EXAMINE. GEAR CONFIGURATION AND AMOUNT UNKNOWN. FINAL OUTCOME UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y

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HUMPBACK WHALE	CA-OR-WA	2015	10	17	GILLNET FISHERY	LOS ANGELES	CA	SI	LARGE MASS OF BLUE GILLNET THROUGH MOUTH AND AROUND HEAD AND RIGHT PECTORAL FLIPPER. NET APPEARS TO PIN PECTORAL FIN TO BODY. ANIMAL BREACHING. NET CUTTING INTO ROSTRUM AND ABRASIONS ON LEADING EDGES OF FLUKES. CONSTRICTING NATURE OF GILLNET WARRANTS AN L2 SERIOUS INJURY DESIGNATION. ANIMAL WAS RESIGHTED ON 10/31 IN ORANGE COUNTY, STILL ENTANGLED WITH PECTORAL FLIPPER PINNED TO BODY (=CONSTRICTING ENTANGLEMENT). PHOTOS REVIEWED BY J. CARRETTA AND A. HENRY. PHOTO MATCHES ARE CONCLUSIVE. FINAL CIRCUMFERENTIAL, CONSTRICTING INJURY BEHIND HEAD, MATERIAL NOT IDENTIFIED. ANIMAL APPEARS EMACIATED AND PERHAPS DEFORMED IN REGION OF INJURY. ATTACHED MATERIAL MAY BE LIMITING ABILITY TO FEED. HEALTH DECLINE AND CONSTRICTING NATURE OF INJURY WARRANTS AN L2 SERIOUS INJURY DESIGNATION. PHOTOS REVIEWED BY J. CARRETTA, D. WELLER, AND A.	SI	L2	1	Y	Y
HUMPBACK WHALE	CA-OR-WA	2015	10	17	UNIDENTIFIED FISHERY INTERACTION	ORANGE	CA	SI	BLUE / GREEN ROPE WRAPPED AROUND HEAD AND TAILSTOCK OF ANIMAL. ROPE POSSIBLY GOES THROUGH MOUTH. NO TRAILING BUOYS. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. FINAL OUTCOME UNKNOWN. PHOTOS REVIEWED BY J. CARRETTA.	SI	L2	1	Y	Y
HUMPBACK WHALE	CA-OR-WA	2015	10	23	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI (PRORATE)	EXCELLENT UNDERWATER VIDEO SHOWS HEALTHY WHALE WITH LINE WRAPPED TIGHTLY AROUND FLUKES. ANIMAL IS TOWING A POT/TRAP WITH APPROXIMATELY 175 FT OF LINE AND 2 WHITE BUOYS WITH BLACK AND BLUE NUMBERS. TRAP HAS CEMENT BLOCKS INSIDE. WHALE DISENTANGLED COMPLETELY AND GEAR RECOVERED (=RESCUE). FISHERY POSITIVELY IDENTIFIED AS CA LOBSTER TRAP. GEAR WAS SET IN LA JOLLA AREA. VIDEO REPORTED AS BLUE LINE AROUND PEDUNCLE AND TRAILING 2 WHITE BUOYS; PHOTOS CONFIRM ENTANGLEMENT, BUT PHOTO QUALITY IS POOR AND GEAR CONFIGURATION AND AMOUNT IS UNKNOWN. PHOTOS REVIEWED BY J. CARRETTA.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2015	10	25	LOBSTER TRAP ENTANGLEMENT	SAN DIEGO	CA	SI	REMNANT OF PREVIOUS ENTANGLEMENT WITH PIECE OF LINE OF UNKNOWN LENGTH ON DORSAL FIN; LINE FRAGMENT? POSSIBLY EMBEDDED IN DORSAL FIN OR ATTACHED ON BARNACLE ANTERIOR TO DORSAL FIN; ANIMAL DOES HAVE INDICATIONS OF PREVIOUS ENTANGLEMENT ON FLUKE (SEE PHOTOS); LINE DESCRIBED AS YELLOW "NYLON" - APPEARS TO BE MULTISTRAND TWISTED LINE. ENTANGLEMENT APPEARS TO BE LOOSE AND DRAPED OVER DORSAL FIN, WHALE LOOKS HEALTHY. PHOTOS REVIEWED BY J. CARRETTA AND	NSI	L3	0	Y	N
HUMPBACK WHALE	CA-OR-WA	2015	11	7	UNIDENTIFIED FISHERY INTERACTION	SAN DIEGO	CA	SI (PRORATE)	WHALE SWIMMING SLOWLY, RAISING PECTORAL FINS OUT OF WATER, 41 NMI SW OF PT. REYES. ONE YELLOW FLOAT/BUOY ATTACHED TO ROPE BEING PULLED BY WHALE, POSITION OF FLOAT CLOSE TO THE TAIL FLUKE, REPORTING PARTY BELIEVE CAUGHT ON/IN PECTORAL OR MOUTH. NO MARKINGS ON BUOY OR FOULING. REPORTED BY NOAA VESSEL REUBEN LASKER. NO PHOTOS AVAILABLE. AMOUNT AND CONFIGURATION OF GEAR SINGLE LINE / ROPE RUNNING BACK FROM	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2015	11	8	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	NSI	ROSTRUM/MOUTH AREA, RUNNING BACK ON LEFT SIDE OF BLOWHOLES AND DOWN LEFT SIDE OF BODY. SWIMMING AND DIVING BUT NOT SEEN FLUKING. NEAR TRUMP GOLF COURSE OFF PALO VERDES, PHOTOS AVAILABLE. AMOUNT AND CONFIGURATION OF GEAR	NSI	L3	0	N	N
HUMPBACK WHALE	CA-OR-WA	2016	1	27	UNIDENTIFIED FISHERY INTERACTION	MARIN	CA	SI (PRORATE)		SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	2	4	UNIDENTIFIED FISHERY INTERACTION	LOS ANGELES	CA	SI (PRORATE)		SI (PRORATE)	L10	0.75	Y	Y

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Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
HUMPBACK WHALE	CA-OR-WA	2016	2	21	CA SPOT PRAWN TRAP FISHERY	SAN DIEGO	CA	SI (PRORATE)	REPORTED BY USCG 2.5 MI WEST OF SCRIPPS PIER. 2 TO 3 WRAPS OF TWISTED 5/16 INCH NYLON LINE AROUND CAUDAL PEDUNCLE (= MULTIPLE WRAPS). WHALE SOMEWHAT ANCHORED, WAS FLUKING BEFORE, DURING, AND AFTER INTERVENTION. QUICKLY SWAM NORTH AFTER RELEASED FROM GEAR (=RESCUE). TEAM OBSERVED THE ANIMAL FORMING A C SHAPE WITH ITS BODY, SUGGESTING SOMETHING WAS GOING ON WITH THE HEAD. FISHERY AND GEAR IDENTIFIED BY TAG NUMBER AND INTERVIEW WITH FISHERMAN. WHALE DISENTANGLEMENT TEAM WAS ABLE TO CUT GROUNDING LINE AND FREE ANIMAL, WHICH IMMEDIATELY PICKED UP SPEED AND SWAM OFF. GEAR HAD BEEN SET NEAR LA JOLLA ON 2/20/2016, THE DAY PRIOR TO THE ENTANGLEMENT, WITH 25 TRAPS OF 8-10 LBS EACH AND 1/2 MILE OF LINE. NO CONFIRMATION THAT ALL GEAR HAS BEEN REMOVED. FULL CONFIGURATION OF GEAR UNKNOWN BEFORE AND AFTER GEAR CONFIRMED FROM BUOY NUMBER. GEAR WAS SET SAME DAY AND PHOTOS / VIDEO EXIST OF WHALE SELF-RELEASING FROM GEAR. FISHERMAN CONTACTED, DESCRIBED GEAR AS 12 POTS ON A STRING OF 5/16 INCH LINE, WITH 100 FT OF LINE BETWEEN POTS. SIGHTING INCLUDED 1 BUOY AND UNKNOWN AMOUNT OF LINE ATTACHED TO FLUKE. VERY ACTIVE ANIMAL, DESCRIBED AS AGITATED, FLUKE SLAPPING AND BREACHING. WHALE SUCCESSFULLY SHED GEAR. 2.5 MILES OFF DANA POINT. ORIGINAL CONFIGURATION AND AMOUNT OF GEAR UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	3	4	CA SPOT PRAWN TRAP FISHERY	ORANGE	CA	SI	WHALE WAS SIGHTED ON 3/4 BY COAST GUARD, THEN 3/5/2016 BY DIVER 9.3 NM WEST OF POINT LOMA. LINEAR SCARS ON LEADING EDGE OF FLUKES AND CAUDAL PEDUNCLE INDICATE THIS WHALE WAS ENTANGLED IN THE PAST, BUT WAS NOT LIKELY THE CAUSE OF DEATH. FRACTURED INTERVERTEBRAL DISK AND SCAPULA WITH ASSOCIATED HEMORRHAGE IN BLUBBER AND MUSCLE INDICATES TRAUMA, POSSIBLY ATTRIBUTED TO A VESSEL STRIKE.	NSI	L10	0	Y	N
HUMPBACK WHALE	CA-OR-WA	2016	3	4	VESSEL STRIKE	SAN DIEGO	CA	DEAD	WHALE APPEARS TO BE ANCHORED IN 10 TOTAL BUOYS AND BLUE STEEL LINE; 3 ORANGE BULLET BUOYS, 1 LARGE WHITE BULLET BUOY, 3 RED/ORANGE BULLET BUOYS, 1 DARK RED BULLET BUOY, 1 DOUBLE ORANGE BULLET BUOY AND 1 PURPLE CA DUNGENESS CRAB TAG. GEAR ORIGINATED FROM MOSS LANDING. SECOND BUOY NUMBER WAS ALSO NOTED FROM A PHOTO. A SEARCH EFFORT FOR THE WHALE WAS INITIATED, BUT THE WHALE WAS NOT RELOCATED. FISHING GEAR WAS APPARENTLY DEPLOYED IN AREA AT THE END OF MARCH. GEAR CONFIGURATION AND AMOUNT UNKNOWN. FINAL 3 BLACK AND WHITE BUOYS AND ROPE AROUND TAILSTOCK. GEAR CONFIRMED AS CA DUNGENESS CRAB FROM TAG/BUOY NUMBER. GEAR HAD BEEN SET IN SAN MATEO COUNTY. ANIMAL SEEN LAST ON JUNE 4TH IN MONTEREY BAY, EMACIATED AND HEAVILY SCARRED, APPARENTLY SHED GEAR FROM TAILSTOCK, BUT UNKNOWN IF GEAR REMAINED ON PECTORAL FLIPPERS. LINE SEEN DEEPLY EMBEDDED IN TAILSTOCK ON 2 OCCASIONS, WITH MANY CYAMIDS DEEP IN WOUNDS. DETERIORATING CONDITION OF ANIMAL WARRANTS SERIOUS INJURY UNDER CATEGORY L10, CONSIDERING CONSTRICTING NATURE OF ENTANGLEMENT, BUT	DEAD	NA	1	N	Y
HUMPBACK WHALE	CA-OR-WA	2016	4	11	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	MONTEREY	CA	SI	WHALE APPEARS TO BE ANCHORED IN 10 TOTAL BUOYS AND BLUE STEEL LINE; 3 ORANGE BULLET BUOYS, 1 LARGE WHITE BULLET BUOY, 3 RED/ORANGE BULLET BUOYS, 1 DARK RED BULLET BUOY, 1 DOUBLE ORANGE BULLET BUOY AND 1 PURPLE CA DUNGENESS CRAB TAG. GEAR ORIGINATED FROM MOSS LANDING. SECOND BUOY NUMBER WAS ALSO NOTED FROM A PHOTO. A SEARCH EFFORT FOR THE WHALE WAS INITIATED, BUT THE WHALE WAS NOT RELOCATED. FISHING GEAR WAS APPARENTLY DEPLOYED IN AREA AT THE END OF MARCH. GEAR CONFIGURATION AND AMOUNT UNKNOWN. FINAL 3 BLACK AND WHITE BUOYS AND ROPE AROUND TAILSTOCK. GEAR CONFIRMED AS CA DUNGENESS CRAB FROM TAG/BUOY NUMBER. GEAR HAD BEEN SET IN SAN MATEO COUNTY. ANIMAL SEEN LAST ON JUNE 4TH IN MONTEREY BAY, EMACIATED AND HEAVILY SCARRED, APPARENTLY SHED GEAR FROM TAILSTOCK, BUT UNKNOWN IF GEAR REMAINED ON PECTORAL FLIPPERS. LINE SEEN DEEPLY EMBEDDED IN TAILSTOCK ON 2 OCCASIONS, WITH MANY CYAMIDS DEEP IN WOUNDS. DETERIORATING CONDITION OF ANIMAL WARRANTS SERIOUS INJURY UNDER CATEGORY L10, CONSIDERING CONSTRICTING NATURE OF ENTANGLEMENT, BUT	SI	L2	1	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	4	16	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	MONTEREY	CA	SI	WHALE APPEARS TO BE ANCHORED IN 10 TOTAL BUOYS AND BLUE STEEL LINE; 3 ORANGE BULLET BUOYS, 1 LARGE WHITE BULLET BUOY, 3 RED/ORANGE BULLET BUOYS, 1 DARK RED BULLET BUOY, 1 DOUBLE ORANGE BULLET BUOY AND 1 PURPLE CA DUNGENESS CRAB TAG. GEAR ORIGINATED FROM MOSS LANDING. SECOND BUOY NUMBER WAS ALSO NOTED FROM A PHOTO. A SEARCH EFFORT FOR THE WHALE WAS INITIATED, BUT THE WHALE WAS NOT RELOCATED. FISHING GEAR WAS APPARENTLY DEPLOYED IN AREA AT THE END OF MARCH. GEAR CONFIGURATION AND AMOUNT UNKNOWN. FINAL 3 BLACK AND WHITE BUOYS AND ROPE AROUND TAILSTOCK. GEAR CONFIRMED AS CA DUNGENESS CRAB FROM TAG/BUOY NUMBER. GEAR HAD BEEN SET IN SAN MATEO COUNTY. ANIMAL SEEN LAST ON JUNE 4TH IN MONTEREY BAY, EMACIATED AND HEAVILY SCARRED, APPARENTLY SHED GEAR FROM TAILSTOCK, BUT UNKNOWN IF GEAR REMAINED ON PECTORAL FLIPPERS. LINE SEEN DEEPLY EMBEDDED IN TAILSTOCK ON 2 OCCASIONS, WITH MANY CYAMIDS DEEP IN WOUNDS. DETERIORATING CONDITION OF ANIMAL WARRANTS SERIOUS INJURY UNDER CATEGORY L10, CONSIDERING CONSTRICTING NATURE OF ENTANGLEMENT, BUT	SI	L2	1	Y	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
HUMPBACK WHALE	CA-OR-WA	2016	4	18	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI (PRORATE)	REPORTED AS ROPE AND 2 BUOYS (ONE WHITE, ONE ORANGE) ENTANGLING WHALE'S CAUDAL PEDUNCLE. WHALE NOT RELOCATED. GEAR CONFIGURATION AND AMOUNT UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	4	20	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	MONTEREY	CA	SI (PRORATE)	WHALE ENTANGLED AROUND BODY (2 WRAPS = MULTIPLE WRAPS), BOTH PECTORAL FINS, AND MOUTH. TANDEM ORANGE AND PINK BULLET BUOYS, PLUS 1 DARK ORANGE OR RED BULLET BUOY ATTACHED TO BLUE OR GREEN POLYLINE. FISHERY POSITIVELY-IDENTIFIED AS CA DUNGENESS CRAB POT FROM BUOY TAG. ONE BUOY WAS BEING TRAILED 100 YARDS BEHIND WHALE. GEAR HAD BEEN SET ON MARCH 29, 2016 IN SAME AREA. WHALE DISENTANGLEMENT TEAM WAS ABLE TO ATTACH TELEMETRY PACKAGE TO WHALE AND RETURN ON 4/21/2016 TO FULLY DISENTANGLE WHALE (=RESCUE).	NSI	L10	0	Y	N
HUMPBACK WHALE	CA-OR-WA	2016	4	20	WA/OR/CA SABLEFISH POT FISHERY	HUMBOLDT	CA	SI (PRORATE)	FISHERY OBSERVER REPORTED ENTANGLEMENT WITH SABLEFISH GEAR 20 MILES OFFSHORE, 30 MILES SOUTH OF CRESCENT CITY. NARRATIVE INCLUDES DESCRIPTION OF 2 PINK BUOYS AND 200 FEET OF LINE. WHALE WAS DISENTANGLED BY FISHING VESSEL WITH OBSERVER ONBOARD. UNKNOWN IF FULLY DISENTANGLED, THUS ASSIGNED AS A PRORATED SERIOUS INJURY. NEED ADDITIONAL INFO FROM OBSERVER PROGRAM. GEAR CONFIGURATION AND AMOUNT UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	4	20	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI (PRORATE)	THRASHING WHALE SEEN AT DISTANCE WITH TWO BUOYS AND 6-8 CAUDAL PEDUNCLE WRAPS, NOT RESIGHTED. CONFIGURATION AND AMOUNT OF GEAR UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	5	8	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	MONTEREY	CA	SI (PRORATE)	MULTIPLE WRAPS. PHOTOS. FINAL OUTCOME UNKNOWN. SWIMMING WHALE WITH TWO BUOYS, ONE ORANGE AND ONE RED WITH DUNGENESS CRAB TAG, ON LEFT SIDE OF BODY, ORANGE COLORED LINE. POSSIBLE LEFT PECTORAL WRAP, FLOAT AND LINE DRAPED OVER BODY. ANIMAL APPARENTLY SELF-RELEASED FROM GEAR WAS SEEN SWIMMING GEAR-FREE BY FAST RAFT TEAM. GEAR ORIGINALLY SET IN MONTEREY BAY AREA IN LATE MARCH. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN.	NSI	L10	0	Y	N
HUMPBACK WHALE	CA-OR-WA	2016	5	10	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	MONTEREY	CA	SI (PRORATE)	ENTANGLED WHALE SWIMMING SOUTH, LUNGING AT SURFACE. BUOY, HEAVY LINE FROM A CRAB POT SYSTEM WRAPPED AROUND BOTH SIDES OF THE WHALE'S FLUKES. WHALE DISENTANGLEMENT TEAM INTERVENED AND WAS ABLE TO PHOTOGRAPH WHALE AND RETRIEVE ENTANGLING GEAR (=RESCUE). ANIMAL LAST SEEN ALIVE, FREE OF GEAR, IN GOOD BODY CONDITION.	NSI	L3	0	Y	N
HUMPBACK WHALE	CA-OR-WA	2016	5	12	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	MONTEREY	CA	SI (PRORATE)	GREEN AND ORANGE LINES OVER BODY AND FLUKES. 2 BUOYS ASSOCIATED WITH GEAR. LAST SEEN ALIVE, LIKELY WITH REMAINING TRAILING GEAR. GEAR WAS POSITIVELY-IDENTIFIED AND MATCHED GEAR THAT WAS INVOLVED IN APRIL 11, 2016 ENTANGLEMENT IN SAME AREA. ABOUT 50 FT OF LINE AND A RED BUOY WAS REMOVED BY THE REPORTING PARTY AND THEN THE WHALE DOVE AND SWAM OFF. LINE WAS STILL VISIBLE AROUND THE TAIL, IN ADDITION TO AN ORANGE BUOY. FINAL GEAR CONFIGURATION AND AMOUNT UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
HUMPBACK WHALE	CA-OR-WA	2016	5	17	WA/OR/CA SABLEFISH POT FISHERY	LINCOLN	OR	SI	ALERT WHALE WITH GOOD BODY CONDITION WAS ENTANGLED IN VERTICAL LINE, HIGH ON THE TAIL STOCK WITH SABLEFISH POT/TRAP GEAR AND THREE POLY BALLS (ONE ORANGE, ONE BLUE, AND ONE WHITE) AND A HIGH FLYER (20 FT, ALUMINUM POLE WITH FLAG AND PHOTO SENSITIVE LIGHT WITH 3/4" LINE. WHALE WAS DESCRIBED AS SOMETIMES BEING VERTICAL IN THE WATER WHEN SURFACING TO BREATHE. EVIDENCE THAT THE WHALE WAS ANCHORED IN PLACE. PHOTO EVIDENCE SUGGESTS THE GEAR WAS ~ 40 FEET BEHIND THE WHALE. DISENTANGLEMENT EFFORT BY CREW OF FISHING VESSEL. SOME GEAR REMAINED ON ANIMAL AFTER DISENTANGLEMENT EFFORT (=RESCUE). WHALE DESCRIBED AS SWIMMING OFF QUICKLY AFTER SOME GEAR WAS REMOVED. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	5	17	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI (PRORATE)	WHALE BOBBING NEAR SURFACE, 2 YELLOW BUOYS ASSOCIATED. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	5	22	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	MONTEREY	CA	SI (PRORATE)	BLUE LINE COMING OUT OF THE RIGHT CORNER OF MOUTH, DOWN RIGHT SIDE OF BODY, 4 BUOYS TOTAL; RESIGHTING COMMENT: 100 FEET OF BLUE LINE, 3/4 TO 1 INCH LINE, TRAILING BEHIND WHALE, BELIEVED TO ORIGINATE FROM MOUTH; 4 BUOYS, 3 ORANGE, 1 WHITE; PURPLE TAG OF UNKNOWN SHAPE NOTED FROM PHOTOS ON BUOY. BREACHING AND PECTORAL FIN SLAPPING, SUBMERGING ALL GEAR WHEN DIVING. GEAR CONFIGURATION AND AMOUNT UNKNOWN. WHALE RESIGHTED ON 5/24, STILL ENTANGLED.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	5	22	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI (PRORATE)	WHALE TRAILING 2 BUOYS [1 ORANGE, 1 GREEN AND WHITE] APPROX. 10 FT. BEHIND FLUKES. ENTANGLEMENT BELIEVED TO INVOLVE FLUKES BUT COULD NOT BE CONFIRMED. WHALE WAS TRAVELING SLOWLY AND DID NOT SHOW FLUKES WHEN DIVING, BUT ALL VISIBLE GEAR WAS SUBMERGED WHEN WHALE DOVE. BUOYS DESCRIBED BY REPORTING PARTY AS CRAB POT BUOYS, BUT THE IDENTITY OF THE FISHERY COULD NOT BE CONFIRMED. NO PHOTOS. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	5	27	UNIDENTIFIED FISHERY INTERACTION	SAN MATEO	CA	SI (PRORATE)	WHALE WITH RED / ORANGE BUOY BEING TRAILED 10 FT. BEHIND. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	6	1	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	SONOMA	CA	SI (PRORATE)	FISHING VESSEL OFF BODEGA BAY REPORTED WHALE ENTANGLED WITH THREE BUOYS CLOSE TO BODY AND TAIL. WHALE RESIGHTED 4 DAYS LATER IN SAME VICINITY AT THE SURFACE, NOT DIVING UNTIL A VESSEL APPROACHED. WHALE DRAGGED BUOYS UNDERWATER UPON DIVING. WHALE WAS SEEN AGAIN OFF SAN DIEGO ON 7/2/2016 AND 7/3/2016, STILL ENTANGLED AND SPYHOPPING, TOWING 60-70 FT OF LINE, PLUS BUOYS. CONFIRMED DUNGENESS CRAB POT TRAP (CA) FROM PHOTOS. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	6	1	UNIDENTIFIED FISHERY INTERACTION	SANTA BARBARA	CA	SI (PRORATE)	WHALE OFF SANTA CRUZ ISLAND, FEEDING WITH OTHER WHALES, REPORTED TO BE DRAGGING 3 BUOYS. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. PHOTOS APPARENTLY TAKEN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	6	2	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI (PRORATE)	WHALE-WATCHING VESSEL REPORTED WHALE WITH BLUE LINE (MULTIPLE WRAPS) BEHIND BLOWHOLE AND BEHIND DORSAL. 2 YELLOW BULLET BUOYS ON RIGHT SIDE. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. PHOTOS TAKEN, INCLUDING FLUKE-ID.	SI (PRORATE)	L10	0.75	Y	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
HUMPBACK WHALE	CA-OR-WA	2016	6	4	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	MONTEREY	CA	SI	TIGHT MULTIPLE WRAPS AT BASE OF LEFT PECTORAL FLIPPER, LINE HANGING DOWN TO TRAP (NOT SEEN), 2 BUOYS: 1 CLOSE TO TIGHT WRAP (WITH DUNGENESS CRAB BUOY TAG POSITIVELY-IDENTIFIED, AS SEEN ON VIDEO, SECOND BUOY ~5 FEET ABOVE (TRAILER BUOY) ; LINE SCAR BY DORSAL FIN. FASTRAFT TEAM WAS ABLE TO ASSESS ANIMAL AND TAKE VIDEO / PHOTOS. DESIGNATED L2 SERIOUS INJURY DUE TO CONSTRICTING WRAPS. FINAL OUTCOME UNKNOWN.	SI	L2	1	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	6	8	UNIDENTIFIED FISHERY INTERACTION	SANTA CRUZ	CA	SI (PRORATE)	REPORT FROM PERSON IN KAYAK WHO ENCOUNTERED WHALE TRAILING ORANGE AND WHITE BUOY 10 FEET BEHIND WHALE. BUOY SUBMERGED WHEN WHALE DOVE. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	6	9	GILLNET FISHERY	MONTEREY	CA	NSI	GREEN MONOFILAMENT NETTING, RIGHT SIDE OF MOUTH, DRAPED OVER BODY, SOMETIMES OVER DORSAL FIN. NET EXITING MOUTH AND TRAILING. ANIMAL BREACHING. ANIMAL IN APPARENT GOOD HEALTH WITH MINIMAL AMOUNT OF GEAR. FINAL OUTCOME	NSI	L3	0	N	N
HUMPBACK WHALE	CA-OR-WA	2016	6	12	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	VANCOUVER ISLAND	BRITISH COLUMBIA	SI	LINE DEEPLY EMBEDDED IN TAILSTOCK, TRAILING 3 BUOYS. THE ANIMAL HAD SIGNIFICANT SCARRING AROUND THE TAIL STOCK AND ROPE INJURIES ON THE ANTERIOR EDGES OF BOTH SIDES OF THE FLUKE. THE ROPE WRAP WAS AROUND THE TAIL STOCK AND THERE WAS ALSO A PERPENDICULAR ROPE WRAP ON THE RIGHT SIDE OF THE FLUKE WHICH WAS DEEP INTO THE BLUBBER/FLESH. CONSTRICTING ENTANGLEMENT AND SERIOUS INJURY UNDER CATEGORY L2. FISHERY POSITIVELY-IDENTIFIED THROUGH TAG NUMBERS. FISHERMAN HAD SET APPROX. 500 TRAPS IN BODEGA BAY, CA AREA BETWEEN MARCH 31 AND JUNE 1 OF 2016. FINAL RED AND WHITE BUOYS (2 TOTAL BUOYS) TRAILING ALONGSIDE BODY. LENGTH OF LINE, AMOUNT OF GEAR AND CONFIGURATION UNKNOWN.	SI	L2	1	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	6	12	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI (PRORATE)	CAME INTO LOS ANGELES HARBOR ON THE BOW OF A LARGE SHIP. WORKING LOCATION AND LIMITED TIME FOR SAMPLING BEFORE ANIMAL WAS TOWED OUT OF THE HARBOR PREVENTED US FROM PERFORMING FULL NECROPSY. SHIP TRACKER DATA SHOWS A REDUCTION IN SPEED AND A 360 DEGREE MANEUVER MIGHT INDICATE THE ANIMAL WAS STRUCK AT 34 DEG 26' 52.5" N, 125 DEG 23' 01.0" W.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	6	14	VESSEL STRIKE	LOS ANGELES	CA	DEAD	EMACIATED WHALE SWIMMING WITH 2 UNIQUE SETS OF CA DUNGENESS CRAB POT GEAR THROUGH MOUTH. THE GEAR REPRESENTS TWO SEPARATE VESSELS' BUOYS AND ROPES. CONFIRMED FROM TAG NUMBERS. FAST RAFT TEAM WAS ABLE TO ATTACH TELEMETRY TO WHALE, BUT DISENTANGLEMENT EFFORT DID NOT OCCUR BECAUSE BOAT WAS NOT HOLDING AIR. DESIGNATED SERIOUS INJURY BECAUSE OF EMACIATED CONDITION, WHICH IMPLIES THAT GEAR IN MOUTH HAS INTERFERED WITH FEEDING FOR SOME TIME. HEALTH DECLINE.	DEAD	NA	1	N	Y
HUMPBACK WHALE	CA-OR-WA	2016	6	17	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	MONTEREY	CA	SI	AN 87' USCG VESSEL STRUCK A 25-30' HUMPBACK WHALE ON ITS MIDSECTION WITH THE BOW WHILE TRAVELING AT 10-12 KNOTS. THE WHALE WAS OBSERVED 10 FEET IN FRONT OF THE CUTTER BEFORE THE COLLISION TOOK PLACE. NO APPARENT DAMAGE TO THE VESSEL AND THE ANIMAL WAS AT THE SURFACE OF THE WATER AFTER THE COLLISION. THE ANIMAL WAS OBSERVED FOR A PERIOD OF 10 MINUTES POST COLLISION, FOLLOWING THE COLLISION THE ANIMAL DOVE FOR 2 MINUTES AND THEN WAS OBSERVED AT THE SURFACE. FINAL OUTCOME	SI	L3	1	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	6	23	VESSEL STRIKE	CLALLAM	WA	SI		SI	L6A	1	N	Y

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HUMPBACK WHALE	CA-OR-WA	2016	6	24	UNIDENTIFIED FISHERY INTERACTION	SAN MATEO	CA	SI (PRORATE)	WHALE SWIMMING AND DIVING, TRAILING 2 SETS OF YELLOW/WHITE/ORANGE BUOYS ABOUT 5 FEET BEHIND THE BLOWHOLE AND TRAILING LINE 100 FEET BEHIND ANIMAL. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. FINAL OUTCOME UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	7	5	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	MONTEREY	CA	SI (PRORATE)	WHALE TRAILING YELLOW AND BLUE CRAB BUOY AND 30 FEET OF LINE. FISHERY IDENTIFIED FROM BUOY TAG. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	7	6	VESSEL STRIKE	SAN MATEO	CA	DEAD	9.7 METER MALE WITH EVIDENCE OF HEMORRHAGING AND EDEMA INTERNALLY. DORSAL AND LATERAL PROCESS FRACTURES TO CERVICAL VERTEBRAE C1-C3. NECROPSY DONE BY THE MARINE MAMMAL CENTER.	DEAD	NA	1	N	Y
HUMPBACK WHALE	CA-OR-WA	2016	7	24	VESSEL STRIKE	SAN MATEO	CA	DEAD	10.9 METER FEMALE HUMPBACK. PHOTOS SHOW GOOD BODY CONDITION. MULTIPLE FRACTURES OF CAUDAL SKULL WITH SHARDS ON BONE LOOSE IN NECROTIC TISSUE. NECROPSIED BY THE MARINE MAMMAL CENTER. FINDINGS CONSISTENT WITH BLUNT FORCE TRAUMA DUE TO VESSEL STRIKE.	DEAD	NA	1	N	Y
HUMPBACK WHALE	CA-OR-WA	2016	8	1	UNIDENTIFIED FISHERY INTERACTION	SAN LUIS OBISPO	CA	SI (PRORATE)	1 MILE WEST OF OCEANO DUNES. WHALE STAYING AT SURFACE, DRAGGING 4 OR 5 BUOYS IN LINE, 30 FEET OR MORE BEHIND WHALE, BLUE ROPE ON HEAD OF WHALE. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. NO RESIGHTS.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	8	6	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	ORANGE	CA	SI	PHOTOS SHOW WHALE WITH BLUE LINE THROUGH MOUTH, CONSTRICTING AROUND LEFT FLIPPER, WITH RED/PINK LACERATIONS. TWO BUOYS WITH LENGTH OF LINE IN EXCESS OF WHALE TRAILING. MULTIPLE RESIGHTS OF WHALE THROUGH 12/8/2016. PARTIAL DISENTANGLEMENT ON 9/5/2016 BUT ANIMAL STILL TRAILED GEAR. PHOTOS ON 9/14 SHOW LINE STILL WRAPPED AROUND LEFT FLIPPER, WITH DEEPER LACERATIONS THAN ORIGINAL 8/6 PHOTOS. FINAL PHOTOS OF WHALE ON 12/8 SHOW DISCOLORED DORSAL SURFACE OF WHALE, GRAYISH, WITH BIOLOGICAL GROWTH (DIATOMS?). HEALTH DECLINE AND CONSTRICTING NATURE OF ENTANGLEMENT AND DETERIORATING CONDITION WARRANTS SERIOUS INJURY.	DEAD	NA	1	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	8	9	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	MONTEREY	CA	SI	ANIMAL SEEN MONTHS LATER, WITHOUT GEAR. ON 4/20/2017, THIS SAME WHALE, WELL-KNOWN BY THE RED/ORANGE LINE COMING OUT OF ANTERIOR BASE OF MOUTH AND WRAPPED TIGHTLY AROUND BASE OF RIGHT FLIPPER. TRAILING LINE WITH 2 BUOYS, LINE LENGTH APPEARS ROUGHLY 2X - 3X LENGTH OF WHALE. GEAR POSITIVELY IDENTIFIED BY BUOY/TAG NUMBER. EVIDENCE OF CONSTRICTING ENTANGLEMENT. GEAR AMOUNT AND CONFIGURATION UNKNOWN.	SI	L2	1	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	8	12	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI (PRORATE)	LINE AROUND BODY BEHIND BLOWHOLE. TRAILING ONE BUOY APPROX. 20 FT BEHIND WHALE. BUOY SUBMERGES WHEN WHALE DIVES. CONFIGURATION AND AMOUNT OF GEAR UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	8	16	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	MONTEREY	CA	SI	EMACIATED WHALE WITH DISCOLORED GRAY SKIN AND APPARENT DIATOM GROWTH. TRAILING TWO BUOYS AND 20 FT. OF LINE. FISHERY CONFIRMED VIA BUOY TAG. CONDITION OF WHALE WARRANTS SERIOUS INJURY DESIGNATION. AMOUNT OF GEAR AND CONFIGURATION UNKNOWN, BUT LIKELY HAS INTERFERED WITH FEEDING, WHICH SUGGESTS INGESTION OF GEAR. DOCUMENTED HEALTH DECLINE.	SI	L10	1	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	8	16	UNIDENTIFIED FISHERY INTERACTION	SAN FRANCISCO	CA	SI (PRORATE)	WHALE SEEN 8 MI ENE OF SOUTH FARALLON ISLAND WITH LINE AND A SINGLE BUOY TRAILING BEHIND IT. NO ADDITIONAL DETAILS OR PHOTOS. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
HUMPBACK WHALE	CA-OR-WA	2016	8	24	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	MONTEREY	CA	SI (PRORATE)	TRAILING 2 WHITE BUOYS WITH BLACK TOPS (10 FEET APART) AND 1 YELLOW BUOY, 100 FT BEHIND WHALE, BUOYS FOULED, CDFW DUNGENESS CRAB TRAP TAG. CONFIGURATION AND AMOUNT OF GEAR UNKNOWN. ANIMAL LAST SEEN SWIMMING WITH ENTANGLEMENT.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	8	24	UNIDENTIFIED FISHERY INTERACTION	SAN LUIS OBISPO	CA	SI (PRORATE)	2 MILES OFF MORRO ROCK. ORANGE/BROWN LINE WITH ORANGE FLOAT TRAILING FROM RIGHT SIDE OF BODY, BUT VERY CLOSE TO BODY, BUOY NEAR RIGHT PECTORAL FLIPPER; GEAR IS POSSIBLY ATTACHED TO LEFT SIDE, DRAPED OVER BACK AND FLOATING ON RIGHT SIDE. MOVING AND FEEDING WITH SOCIAL GROUP OF HUMPBACKS, DIVING. ANIMAL RESIGHTED THROUGH 8/26. PHOTOS AND VIDEO REVIEWED. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	8	24	UNIDENTIFIED FISHERY INTERACTION	SANTA BARBARA	CA	SI (PRORATE)	ONE RED POLYBALL (STILL INFLATED) BEING TRAILED A FEW YARDS BEHIND TAIL OF WHALE. NO PHOTOS. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	8	27	UNIDENTIFIED FISHERY INTERACTION	SAN FRANCISCO	CA	SI (PRORATE)	WHALE NEAR SE FARALLON ISLAND WITH LARGE BUOY TRAILING 30 FEET BEHIND WRAPS ON TAIL. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. NO PHOTOS.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	8	28	UNIDENTIFIED FISHERY INTERACTION	SAN LUIS OBISPO	CA	SI (PRORATE)	ACTIVE, DIVING WHALE, TRAVELING WITH OTHER WHALES, TRAILING A SINGLE ORANGE BUOY APPROXIMATELY 20 FEET BEHIND WHALE. PHOTOS REVIEWED. UNKNOWN AMOUNT AND CONFIGURATION WHALE SEEN SWIMMING AND DIVING WITH A SINGLE WRAP OF BLUE LINE APPROXIMATELY 2-3 FEET BEHIND BLOWHOLES. FLUKES SHOW EVIDENCE OF WHITE SCARRING, POSSIBLY RELATED TO THIS ENTANGLEMENT OR POSSIBLY OLDER. ANIMAL OTHERWISE APPEARS HEALTHY. PHOTOS REVIEWED. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	8	28	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI (PRORATE)	CAUDAL HALF OF PEDUNCLE MISSING; BASED ON DAMAGE TO CAUDAL VERTEBRA, BELIEVED TO HAVE BEEN CUT OFF BY PROPELLER; HOWEVER, UNCLEAR AS TO WHETHER DAMAGE OCCURRED PRE- OR POST-MORTEM; ALL INTERNAL ORGANS EXPELLED FROM DECOMPOSITION.; ONLY VENTRAL SIDE OF WHALE COULD CALIFORNIA SPOT PRAWN TRAP GEAR; BLUE STEEL LINE AROUND ONE PECTORAL FLIPPER AND 4 ORANGE POLY BALLS. RESIGHTED OFF SANTA BARBARA COUNTY ON 10/4/2016 YELLOW ROPE AROUND MIDSECTION AND A "4-INCH LACERATION", THOUGH THE LOCATION OF THE LACERATION IS NOT PROVIDED. PHOTOS DO NOT SHOW LACERATION AND SHOW APPARENT MARINE GROWTH ON ROPES. INTERVIEW WITH FISHERMAN INDICATES THAT ONE OF THE BUOYS IS FROM A SET MADE AT THE END OF AUGUST WEST OF SAN MATEO IN 100 FATHOMS OF WATER, WITH APPROXIMATELY 120 FATHOMS OF LINE. FISHERMAN RECOVERED HIS GEAR AND ASSUMES THAT ALL THAT REMAINS ON WHALE IS LINES AND BUOYS. DESIGNATED AS A SERIOUS INJURY. UNKNOWN AMOUNT AND CONFIGURATION OF GEAR REMAIN ON ANIMAL. FINAL OUTCOME UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	9	16	VESSEL STRIKE	TILLAMOOK	OR	DEAD	DECOMPOSITION.; ONLY VENTRAL SIDE OF WHALE COULD CALIFORNIA SPOT PRAWN TRAP GEAR; BLUE STEEL LINE AROUND ONE PECTORAL FLIPPER AND 4 ORANGE POLY BALLS. RESIGHTED OFF SANTA BARBARA COUNTY ON 10/4/2016 YELLOW ROPE AROUND MIDSECTION AND A "4-INCH LACERATION", THOUGH THE LOCATION OF THE LACERATION IS NOT PROVIDED. PHOTOS DO NOT SHOW LACERATION AND SHOW APPARENT MARINE GROWTH ON ROPES. INTERVIEW WITH FISHERMAN INDICATES THAT ONE OF THE BUOYS IS FROM A SET MADE AT THE END OF AUGUST WEST OF SAN MATEO IN 100 FATHOMS OF WATER, WITH APPROXIMATELY 120 FATHOMS OF LINE. FISHERMAN RECOVERED HIS GEAR AND ASSUMES THAT ALL THAT REMAINS ON WHALE IS LINES AND BUOYS. DESIGNATED AS A SERIOUS INJURY. UNKNOWN AMOUNT AND CONFIGURATION OF GEAR REMAIN ON ANIMAL. FINAL OUTCOME UNKNOWN.	DEAD	NA	1	N	Y
HUMPBACK WHALE	CA-OR-WA	2016	9	17	CA SPOT PRAWN TRAP FISHERY	SAN MATEO	CA	SI	COAST GUARD REPORTED WHALE WITH "CRAB POTS AND LINES". WHALE TOWING 2 ORANGE BUOYS, 1 WHITE BUOY, TRAILING 10 FEET BEHIND DORSAL FIN, CLOSE TO FLUKES. WHALE WAS ABLE TO FLUKE UP AND DIVE. UNSUCCESSFUL SEARCH FOR WHALE, AMOUNT AND CONFIGURATION OF GEAR UNKNOWN.	SI (PRORATE)	L10	1	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	9	25	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	MARIN	CA	SI (PRORATE)	COAST GUARD REPORTED WHALE WITH "CRAB POTS AND LINES". WHALE TOWING 2 ORANGE BUOYS, 1 WHITE BUOY, TRAILING 10 FEET BEHIND DORSAL FIN, CLOSE TO FLUKES. WHALE WAS ABLE TO FLUKE UP AND DIVE. UNSUCCESSFUL SEARCH FOR WHALE, AMOUNT AND CONFIGURATION OF GEAR UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

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HUMPBACK WHALE	CA-OR-WA	2016	9	26	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	MARIN	CA	SI (PRORATE)	AERIAL PHOTO OF HUMPBACK WHALE, "POSSIBLY ANCHORED" AND "HANGING NEAR SURFACE", WITH PECTORAL FLIPPERS FLAIED OUT, TOWING APPROX. 150 FT. OF LINE AND 4 ORANGE POLYBALLS. NEAR PT. REYES. GEAR AMOUNT AND CONFIGURATION UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	10	9	UNIDENTIFIED FISHERY INTERACTION	SAN FRANCISCO	CA	SI (PRORATE)	WHALE TOWING ONE LARGE ORANGE POLYBALL AND ONE SMALLER WHITE POLYBALL NEAR MID-BODY. SEEN AMONG A GROUP OF 30+ FEEDING WHALES. ANIMAL WAS DIVING. PHOTOS SHOW WHALE BETWEEN OBSERVER AND POLYBALLS, SO GEAR IS OBSCURED BY DORSAL SURFACE OF WHALE, BUT OTHERWISE CLEARLY SEEN. CONFIGURATION AND AMOUNT OF GEAR UNKNOWN. NO LINE AND 4 BUOYS (3 ORANGE, 1 WHITE). LINE COMES OUT OF MOUTH ON BOTH SIDES OF WHALE (SEEN FROM DRONE FOOTAGE) AND WRAPS AROUND HEAD OF WHALE POSTERIOR TO BLOWHOLES. LINE APPEARS CONSTRICTING WITH VISIBLE INDENTATION ON DORSAL SURFACE OF BODY. RIGHT PECTORAL FLIPPER APPEARS TO BE PINNED TO BODY. DISENTANGLEMENT TEAM MADE UNSUCCESSFUL ATTEMPT TO REMOVE GEAR. WHALE SEEN DIVING NORMALLY. UNDERWATER VIDEO OF ANIMAL TOO MURKY TO ASSESS SEVERITY OF ENTANGLEMENT. TRAILING LINE DOES NOT EXCEED LENGTH OF WHALE. DESIGNATED AS SERIOUS INJURY UNDER CATEGORY L2 BECAUSE OF EVIDENCE OF CONSTRICTING GEAR. PHOTOS REVIEWED BY J. CARRETTA AND A. HENRY.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	10	12	UNIDENTIFIED FISHERY INTERACTION	ORANGE	CA	SI	WHALE IDENTIFIED AS 'COMET' WITH EITHER GILLNET OR BRAIDED NET AROUND FLUKES, BUT PEDUNCLE APPEARS FREE OF GEAR. MARINE GROWTH ON GEAR MAKES IT UNCLEAR WHETHER OR NOT NET IS MONOFILAMENT OR BRAIDED. ANIMAL DIVING AND SWIMMING NORMALLY. WHALE RESIGHTED OFF LOS ANGELES LATER THAT WEEK. BARNACLE GROWTH ON FLUKES APPEARS TO BE CONTRIBUTING TO THE CONTINUED ATTACHMENT OF NET ON FLUKES. GEAR ORIGIN UNKNOWN. NON-SERIOUS INJURY DUE TO LIMITED DRAPED GEAR ON FLUKES.	SI	L2	1	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	10	21	GILLNET FISHERY	ORANGE	CA	NSI	PHOTOGRAPH OF MONOFILAMENT LINE OVER FLUKES, LINE IS TAUGHT. WHALE WATCH SURVEY. ANIMAL RESIGHTED AND PHOTOGRAPHED LATER THAT DAY AND LINE IS NO LONGER VISIBLE. APPARENT SELF-RELEASE. ANIMAL WAS SEEN FEEDING. ORIGINAL AMOUNT AND CONFIGURATION OF LINE UNKNOWN.	NSI	L3	0	N	N
HUMPBACK WHALE	CA-OR-WA	2016	10	26	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	NSI	WHALE TOWING CRAB POT, 3 BUOYS AND 100 METERS OF ROPE NEAR CABO SAN LUCAS. NO PHOTOS, BUT DRAWING OF WHALE SHOWS RELATIVE LOCATION OF GEAR WRAPPED AROUND RIGHT PECTORAL FLIPPER. SELF-RELEASE OF GEAR THAT WAS COLLECTED, UNCERTAIN IF WHALE SHED ALL GEAR. PHOTOS SHOW GEAR RECOVERED FROM WHALE AND POSITIVELY-IDENTIFIED FROM LICENSE TAG NUMBER. GEAR ORIGINALLY SET IN SPRING 2017 NEAR SAN FRANCISCO. AMOUNT AND CONFIGURATION UNKNOWN.	NSI	L10	0	N	N
HUMPBACK WHALE	CA-OR-WA	2016	11	26	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	MEXICO	MEXICO	SI (PRORATE)	WHALE TOWING ROPE AND 4 BUOYS, 2 BUOYS NEAR HEAD, 2 NEAR FLUKES. ANIMAL SEEN NEAR BODICA BAY, CA, THRASHING AT SURFACE. 'LOOKS EXHAUSTED'. TWO TRAILING BUOYS ARE BICOLOR (ORANGE/YELLOW AND RED). LEADING BUOYS ARE WHITE WITH LONGITUDINAL RED BAR. BUOYS LOOK RELATIVELY FRESH AND UNFOULED. AMOUNT AND CONFIGURATION OF GEAR	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2016	12	3	UNIDENTIFIED FISHERY INTERACTION	SONOMA	CA	SI (PRORATE)		SI (PRORATE)	L10	0.75	Y	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

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HUMPBACK WHALE	CA-OR-WA	2016	12	8	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	SONOMA	CA	NSI	WHALE WRAPPED AROUND MOUTH AND LEFT SIDE NEAR BODEGA BAY DISENTANGLED FROM LINE AND 10 BUOYS BY COMMERCIAL FISHERMAN (=RESCUE). WHALE WAS BLEEDING, FISHERMEN DESCRIBED GEAR AS CUTTING INTO WHALE (=CONSTRICTING). FISHERMEN SPENT 4 HRS REMOVING ALL GEAR FROM WHALE. WHALE SWAM AROUND AFTER RELEASE FROM GEAR. FISHERY POSITIVELY IDENTIFIED FROM TRAP TAG. THIS RECORD IS CONSIDERED SEPARATE FROM THE 12/3/2016 RECORD IN SAME REGION BECAUSE OF THE DIFFERENCE IN NUMBER AND COLOR OF BUOYS ASSOCIATED WITH ENTANGLEMENT. WHALE APPEARED HEALTHY. NON-SERIOUS INJURY DUE TO REMOVAL OF ALL GEAR AND	NSI	L2	0	N	N
HUMPBACK WHALE	CA-OR-WA	2016	12	13	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	MEXICO	MEXICO	NSI	BAJA CALIFORNIA WHALE WATCH COMPANY REPORTED WHALE ENTANGLED IN 100 FT OF ROPE AND 3 ASSOCIATED BUOYS. UNDERWATER PHOTO SHOWS LINE TRAILING BACK FROM WHALE'S MIDSECTION, APPARENTLY ON THE VENTRUM BECAUSE ORIGIN OF LINE IS NOT VISIBLE FROM DORSAL PERSPECTIVE OF PHOTO. PECTORAL FLIPPERS, FLUKES, AND PEDUNCLE APPEAR FREE OF GEAR. WHALE APPEARS ROBUST AND HEALTHY FROM PHOTOS. FISHERY POSITIVELY-IDENTIFIED FROM TRAP TAG AFTER GEAR WAS REMOVED AND COLLECTED FROM WHALE. WHALE DID NOT SHOW ANY APPARENT INJURIES POST-RELEASE. ALL GEAR APPARENTLY REMOVED (=RESCUE). BUOYS APPEAR WEATHERED AND	NSI	L10	0	N	N
HUMPBACK WHALE	CA-OR-WA	2017	1	6	DUNGENESS CRAB POT FISHERY (RECREATIONAL)	MEXICO	MEXICO	SI	SAN BLAS, MEXICO (21.525, -105.286). WHALE DESCRIBED AS WEAK AND EMACIATED WITH HIGH CYAMID LOAD HAD MULTIPLE WRAPS ENTANGLED AROUND FLUKES AND A BROKEN POT. ONLY ONE PHOTO OF WHALE FROM BEHIND DOES NOT SHOW GEAR BUT SHOWS A GRAYISH COLORATION TO SKIN. DRAWING OF ENTANGLEMENTS DEPICTS MULTIPLE WRAPS AROUND FLUKES AND PEDUNCLE. COMPLETE GEAR CONFIGURATION UNKNOWN AND DETERMINED TO BE A SERIOUS INJURY DUE TO DOCUMENTED HEALTH DECLINE. GEAR TRACED TO OWNER VIA BUOY INFORMATION TO CALIFORNIA RECREATIONAL DUNGENESS POT THAT WAS ORIGINALLY SET IN CENTRAL CALIFORNIA WATERS ON 11/5/2016 (APPROX POSITION = 33.54, -122.54. CRAB TRAP WAS LOST ON THAT 1ST DAY (11/5/2016). DISENTANGLEMENT TEAM REMOVED ALL GEAR FROM WHALE. SERIOUS	SI	L10	1	N	Y
HUMPBACK WHALE	CA-OR-WA	2017	4	17	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	MONTEREY	CA	SI (PRORATE)	TOWING 100 FEET GREEN LINE, TRAILING SIDE OF BODY, 2 FLOATS, 1 RED, 1 WHITE. GEAR POSITIVELY IDENTIFIED AS CALIFORNIA DUNGENESS CRAB POT GEAR AFTER DISENTANGLEMENT TEAM (=RESCUE) CUT AND REMOVED LINE AND BUOYS BEHIND THE MOUTH. IT WAS THOUGHT THAT PERHAPS 30 FEET OF LINE REMAINED ON ANIMAL AFTER DISENTANGLEMENT MISSION. LINE APPEARED TO BE COMING OUT OF LEFT SIDE OF MOUTH. NO LINE VISIBLE ON THE LEFT PECTORAL OR FLUKE. LINE WAS INITIALLY DRAPED OVER THE BACK OF THE WHALE BUT HAD SLID OFF DURING DISENTANGLEMENT ENCOUNTER. CONFIGURATION OF REMAINING GEAR UNKNOWN. SWIMMING WHALE WITH ORANGE LINE ACROSS LEFT SIDE OF BODY. GEAR CONFIGURATION AND AMOUNT UNKNOWN. WHALE NOT SEEN AGAIN, ONLY ONE PHOTO REVIEWED, SHOWS A SINGLE LINE ON LEFT SIDE OF	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2017	6	17	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI (PRORATE)		SI (PRORATE)	L10	0.75	Y	Y

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HUMPBACK WHALE	CA-OR-WA	2017	6	18	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	MONTEREY	CA	SI (PRORATE)	TWO BUOYS ON RIGHT SIDE TRAILING BEHIND THE FLUKE, LINE (LIGHT OR WHITE) APPEARS TO BE RUNNING UNDERNEATH THE BODY FROM THE RIGHT PECTORAL FIN AND/OR UNDERNEATH THE HEAD OVER THE RIGHT SIDE OF FLUKES (AS NOTED FROM PHOTO/VIDEO); ADDITIONAL SCARRING FROM OLD ENTANGLEMENT ON PEDUNCLE. FISHERY SOURCE CONFIRMED BY FISHERMAN VIA PHOTOS OF BUOYS AND TRAP NUMBERS. THE ENTANGLING GEAR HAD BEEN SET IN HALF MOON BAY. PREVIOUS SIGHTING OF THIS WHALE, KNOWN AS 'TRAINWRECK' WAS ON 5/22/2017 AND WAS NOT ENTANGLED AT THAT TIME. FINAL OUTCOME UNKNOWN, FULL CONFIGURATION AND AMOUNT OF GEAR UNKNOWN. NO VISIBLE INJURIES OTHER THAN OLD SCARRING NEAR PEDUNCLE.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2017	6	23	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI	BLUE LINE BEHIND DORSAL FIN, CUTTING INTO ANIMAL. NO BUOYS VISIBLE. GEAR AMOUNT AND CONFIGURATION UNKNOWN. SERIOUS INJURY UNDER L2 BECAUSE OF CONSTRICTING WRAP ENTANGLEMENT. ANIMAL APPEARED TO BE LUNGE FEEDING. FINAL OUTCOME UNKNOWN.	SI	L2	1	Y	Y
HUMPBACK WHALE	CA-OR-WA	2017	6	25	MARINE DEBRIS	SAN MATEO	CA	SI	WHALE STRUGGLING AT SURFACE AND ANCHORED IN PLACE, NOT RAISING ITS FLUKES OUT OF THE WATER AT ALL. NO GEAR VISIBLE, BUT APPARENT THAT WHALE IS ANCHORED BY SOMETHING. VIDEO / PHOTO REVIEWED BY J. CARRETTA. FINAL OUTCOME UNKNOWN.	SI	L2	1	N	Y
HUMPBACK WHALE	CA-OR-WA	2017	6	28	VESSEL STRIKE	SAN FRANCISCO	CA	SI	CITIZEN TOOK PHOTO OF PLEASURE BOAT HITTING WHALE BELOW GOLDEN GATE BRIDGE. EXTENT OF INJURIES UNKNOWN. SPEED OF VESSEL UNKNOWN, BUT PROBABLY IN EXCESS OF 10KTS BASED ON PHOTO. APPEARS VESSEL IS APPROXIMATELY SAME SIZE AS WHALE. http://www.gulfster.com/Daily/2017PictureGallery/humpback-whale-golden-gate/index.html	SI	L6B	0.2	N	Y
HUMPBACK WHALE	CA-OR-WA	2017	7	2	DUNGENESS CRAB POT FISHERY (WASHINGTON)	NA	WA	SI	WHALE WITH LINE WRAPPED AROUND AND CUTTING INTO ANIMAL, MIDWAY BETWEEN FLUKES AND DORSAL HUMP. DEEP AND EXTENSIVELY-WOUNDED AREA IS HEAVILY COVERED IN BARNACLES, INDICATING THE GEAR HAS BEEN ON THE WHALE FOR SOME TIME. CONSTRICTING ENTANGLEMENT. TRAILING AT LEAST TWO BUOYS. WHALE DISENTANGLEMENT TEAM REMOVED MOST GEAR ON 7/29/2017 IN SOUTHERN CA WATERS. WHALE WAS SUBSEQUENTLY SEEN, GEAR-FREE, SWIMMING AND TAIL-SLAPPING ON 7/30/2017 OFF SOUTHERN CALIFORNIA. WHALE APPEARS TO BE IN GOOD HEALTH WITH EXCEPTION OF ENTANGLEMENT INJURY, WHICH APPEARS PINK IN COLOR. GIVEN SEVERITY OF INJURY, SURVIVAL OF WHALE IS UNCERTAIN. FISHERY POSITIVELY-IDENTIFIED FROM RECOVERED GEAR TAG. PHOTOS / VIDEO REVIEWED BY J. CARRETTA.	SI	LSA	1	Y	Y

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HUMPBACK WHALE	CA-OR-WA	2017	7	13	WA/OR/CA SABLEFISH POT FISHERY AND CA/OR COONSTRIPE SHRIMP POT	DEL NORTE	CA	SI	ENTANGLEMENT INVOLVED 23 FT JOYVILLE HUMPBACK WHALE TRAILING 400 YARDS OF LINE. SEVERAL SETS OF FIXED FISHING GEAR WRAPPED AROUND THE TAIL FLUKES, THE PECTORAL FINS, AND THE MOUTH. WHALE INITIALLY ENTANGLED IN SABLEFISH ANCHOR GEAR AND THEN DRAGGED THAT GEAR THROUGH SHRIMP GEAR, SO TWO FISHERIES WERE INVOLVED. THE GEAR HAD ANCHORED THE WHALE IN PLACE AND ANIMAL WAS UNABLE TO LIFT ITS FLUKES. DISENTANGLEMENT TEAM WORKED WITH LOCAL FISHERMEN IN A CAREFULLY PLANNED OPERATION TO HAUL UP SOME OF THE HEAVY GEAR WEIGHING DOWN THE TAIL. THAT CREATED ENOUGH SLACK TO LET THE WHALE SURFACE, ALLOWING THE TEAM TO MAKE THE NECESSARY CUTS TO REMOVE ALL THE ENTANGLING GEAR FROM THE WHALE. SHORT VIDEO POST-RELEASE SHOWS WHALE SWIMMING SLOWLY AT SURFACE. APPARENT BODY CONDITION APPEARS HEALTHY FROM PHOTOS. DESIGNATED AS A NON-SERIOUS INIURY DUE TO RESCUE / THICK BLUE LINE DEEPLY EMBEDDED BEHIND BLOWHOLE AND A WRAP OF LEFT PECTORAL FLIPPER, CONNECTING TO MOUTH. THE EMBEDDED LINE HAS CUT INTO THE BLUBBER LAYER OF THE WHALE. LINE AROUND LEFT FLIPPER HAS AN X-SHAPED CONFIGURATION AROUND BASE OF FLIPPER, INDICATING A CONSTRICTING WRAP. ANIMAL DESCRIBED AS AGITATED AND BREACHING, WITH TAIL SLAPPING BEHAVIOR. ANIMAL RESIGHTED 8/19/2017, STILL ENTANGLED. FINAL OUTCOME UNKNOWN. PHOTOS REVIEWED BY J. CARRETTA.	NSI	L2	0	Y	N
HUMPBACK WHALE	CA-OR-WA	2017	7	23	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI	TWO LINES; ONE ACROSS OR JUST IN FRONT OF BLOW HOLE, ONE CLOSE BEHIND THE BLOWHOLE ON HEAD; SIGNIFICANT ABRASIONS NOTED ON UNDERSIDE OF TAIL STOCK AND LEADING EDGE OF THE FLUKE. WHALE WAS EMACIATED. GEAR AMOUNT AND CONFIGURATION UNKNOWN, BUT SERIOUS INIURY DUE TO APPARENT HEALTH DECLINE OF WHALE. PHOTOS REVIEWED BY J.	SI	L2	1	Y	Y
HUMPBACK WHALE	CA-OR-WA	2017	8	23	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI	ENTANGLEMENT INVOLVED THE RIGHT FLIPPER AND THE TAIL, WITH LINE TRAILING TO TWO WHITE BUOYS ABOUT 50 TO 100' BEHIND THE WHALE. LINE WAS ALSO OBSERVED DESCENDING TOWARDS THE SEAFLOOR. EST - 3/8" LINE - LIGHT COLOR; DESCRIPTION DEEMED SPECIFIC AND DETAILED ENOUGH, COMING FROM A PROFESSIONAL MARINER, TO WARRANT CONFIRMATION EVEN THOUGH PHOTO IS OF LOW QUALITY AND DOES NOT PROVIDE EVIDENCE OF ENTANGLEMENT. SINGLE PHOTO REVIEWED BY J. CARRETTA, WHICH DOES NOT SHOW ENOUGH OF WHALE OR CONTEXT FOR FURTHER ASSESSMENT. GEAR AMOUNT AND CONFIGURATION UNKNOWN.	SI	L10	1	Y	Y
HUMPBACK WHALE	CA-OR-WA	2017	8	23	UNIDENTIFIED FISHERY INTERACTION	COOS	OR	SI (PRORATE)	VIDEO SHOWS MOTIONLESS WHALE WITH HIGH CYAMID LOAD. LINE COMING OUT OF RIGHT SIDE OF MOUTH AND ANOTHER PIECE ON RIGHT PECTORAL FLIPPER. DEEP LACERATION ON HEAD OF WHALE JUST ANTERIOR TO BLOWHOLE AND ANOTHER DEEP LACERATION ON THE RIGHT FLIPPER. GEAR RECOVERED BY MEMBERS OF THE PUBLIC AND EVENTUALLY IDENTIFIED AS WASHINGTON STATE TRIBAL DUNGENESS POT GEAR. SURVIVAL OF WHALE DOUBTFUL BASED ON HEALTH DECLINE. VIDEO REVIEWED BY J. CARRETTA.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA-OR-WA	2017	9	3	DUNGENESS CRAB POT WASHINGTON TRIBAL	SAN DIEGO	CA	SI	DISTANT PHOTOS OF BREACHING HUMPBACK SHOW BLUE/GREEN LINE UNDERNEATH BASE OF LEFT PECTORAL FLIPPER AND THROUGH BOTH SIDES OF MOUTH. NO FLOATS / BUOYS SEEN TRAILING. ANIMAL APPEARED TO BE IN GOOD HEALTH. GEAR AMOUNT AND CONFIGURATION UNKNOWN. PHOTOS REVIEWED BY J.	SI	LSA	1	N	Y
HUMPBACK WHALE	CA-OR-WA	2017	9	20	UNIDENTIFIED FISHERY INTERACTION	ORANGE	CA	SI (PRORATE)	CONFIRMATION UNKNOWN. PHOTOS REVIEWED BY J.	SI (PRORATE)	L10	0.75	Y	Y

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HUMPBACK WHALE	CA-OR-WA	2017	10	2	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI	LINE ACROSS BACK IN FRONT OF DORSAL FIN, STARTING TO BECOME EMBEDDED. RECENT PHOTO OF WHALE FROM 9/4 SHOWS WHALE WITHOUT ENTANGLEMENT, SO THIS IS A RELATIVELY RECENT ENTANGLEMENT. THERE ARE TWO LINES TRAILING BEHIND THE FLUKES. ONE GOES ABOUT 2/3RDS BODY LENGTH BACK AND IS RUNNING FREE, THE OTHER ALMOST EXACTLY THE WIDTH OF THE FLUKES WITH TWO OBJECTS ATTACHED ONE OF WHICH IS LIKELY A BULLET BUOY AT THE END AND THE OTHER IS FLATTENED AND FISHES IN THE CURRENT. THE LATTER MAY BE A WAD OF LINE AROUND ANOTHER BUOY. THE TWO LINES ARE FAIRLY SEPARATED BUT TWIST CLOSE TO THE FLUKES AND PROBABLY ARE TWISTED UNDER THE BODY. BECAUSE TWO LINES WERE DETECTED TRAILING THE ANIMAL IT IS THOUGHT THAT THERE IS NO TRAP ATTACHED. EVIDENCE OF LINE EMBEDDING IN WHALE WARRANTS A SERIOUS INJURY UNDER CATEGORY L2 (CONSTRUCTING ENTANGLEMENT).	SI	L2	1	Y	Y
HUMPBACK WHALE	CA-OR-WA	2017	10	6	GILLNET FISHERY	SAN JUAN	WA	SI (PRORATE)	WELL-MARKED WHALE INITIALLY SEEN WITH GREEN GILLNET AROUND ROSTRUM AND THROUGH MOUTH NEAR SAN JUAN ISLAND. WHALE SEEN SEVERAL TIMES THEREAFTER, AS LATE AS DECEMBER 2017. DISENTANGLEMENT TEAM APPROACHED WHALE AND TOOK PHOTOS AND VIDEO AND COULD NOT FIND ANY REMAINING GILLNET. ANIMAL IS THOUGHT TO HAVE SELF-RELEASED FROM GEAR. ORIGINAL GEAR CONFIGURATION ORANGE LINE AROUND TORSO FORWARD OF ITS DORSAL FIN, ORANGE AND GREEN LINE REPORTED BY FISHERMAN, TRAILING 40-50 FEET ON LINE BEHIND, NO BUOYS. ANIMAL SELF-RELEASED, APPROACHED AND PHOTOGRAPHED / VIDEO BY P. STAPP. VIDEO SHOWS WHALE FREE OF GEAR AND WITHOUT APPARENT INJURY, IN THE COMPANY OF ANOTHER HUMPBACK.	NSI	L10	0	Y	N
HUMPBACK WHALE	CA-OR-WA	2017	11	25	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI (PRORATE)	ANCHORED WITH BODY WRAP, ANIMAL NOT FLUKING. AT LEAST TWO WRAPS AROUND CAUDAL PEDUNCLE AND LINES EXTENDING TOWARDS FLIPPERS LOW ON BOTH SIDES OF BODY. MULTIPLE WRAPS. ONE GREEN LINE AND 1 RED LINE CLEARLY RUNNING FROM TANGLE OF BUOYS OVER BODY TOWARD HEAD/MOUTH. GEAR SHIFTS AS WHALE SURFACES; 2 WHITE BULLET BUOYS WITH GREEN ENDS PLUS LIGHT BLUE BUOY TAG- LICENSE NUMBER USED TO CONFIRM FISHERY. 5 BUOYS TOTAL AND A TANGLE OF LINES. AT LEAST 3 SETS INVOLVED.	NSI	L10	0	Y	N
HUMPBACK WHALE	CA-OR-WA	2017	12	6	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	MONTEREY	CA	SI	GREEN LINE WRAPPED TWICE AROUND BODY BEHIND HEAD AND FORWARD OF DORSAL HUMP. 2 ORANGE/YELLOW BUOYS TRAILING. BUOYS HAVE WHAT APPEARS TO BE A ROUND, PURPLE TAG (CONSISTENT WITH WA DUNGENESS CRAB). LINES APPEAR TO BE SNUGLY WRAPPED AROUND BODY AND AT LEAST ONE INDENTATION FROM LINE IS EVIDENT ON BODY. OBSERVERS WERE NOT ABLE TO RELOCATE WHALE, WHICH OTHERWISE LOOKED HEALTHY. MULTIPLE WRAPS AND CONSTRUCTING ENTANGLEMENT. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. PHOTOS SHOW WHALE WITH LINES AND MULTIPLE BUOYS TRAILING BEHIND AND OVER DORSAL ASPECT OF WHALE. YELLOW OVAL TAGS VISIBLE ON TWO BUOYS (1 ON EACH). REPORTING PARTY NARRATIVE AND PHOTOS SHOW EVIDENCE OF A WHALE THAT IS ANCHORED. CHARTER VESSEL MADE UNAUTHORIZED ATTEMPT TO REMOVE GEAR FROM WHALE. AMOUNT AND CONFIGURATION OF GEAR REMAINING ON WHALE IS UNKNOWN.	SI	L2	1	Y	Y
HUMPBACK WHALE	CA-OR-WA	2017	12	29	DUNGENESS CRAB POT FISHERY (WASHINGTON)	MEXICO	MX	SI	PHOTOS SHOW WHALE WITH LINES AND MULTIPLE BUOYS TRAILING BEHIND AND OVER DORSAL ASPECT OF WHALE. YELLOW OVAL TAGS VISIBLE ON TWO BUOYS (1 ON EACH). REPORTING PARTY NARRATIVE AND PHOTOS SHOW EVIDENCE OF A WHALE THAT IS ANCHORED. CHARTER VESSEL MADE UNAUTHORIZED ATTEMPT TO REMOVE GEAR FROM WHALE. AMOUNT AND CONFIGURATION OF GEAR REMAINING ON WHALE IS UNKNOWN.	SI	L2	1	Y	Y
HUMPBACK WHALE	CA/OR/WA	2018	4	29	DUNGENESS CRAB POT FISHERY (WASHINGTON)	GRAYS HARBOR	WA	SI (PRORATE)	PHOTOS SHOW WHALE WITH LINES AND MULTIPLE BUOYS TRAILING BEHIND AND OVER DORSAL ASPECT OF WHALE. YELLOW OVAL TAGS VISIBLE ON TWO BUOYS (1 ON EACH). REPORTING PARTY NARRATIVE AND PHOTOS SHOW EVIDENCE OF A WHALE THAT IS ANCHORED. CHARTER VESSEL MADE UNAUTHORIZED ATTEMPT TO REMOVE GEAR FROM WHALE. AMOUNT AND CONFIGURATION OF GEAR REMAINING ON WHALE IS UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
HUMPBACK WHALE	CA/OR/WA	2018	5	13	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	NA	CA	SI (PRORATE)	TWO LARGE WHALES THAT APPEARED TO BE "ENTANGLED TOGETHER" 8.5 MILES OUTSIDE OF GOLDEN GATE BRIDGE. ENTANGLEMENT WAS DESCRIBED AS 4 BUOYS, 2 SETS OF "CRAB POT BUOYS" WRAPPED AROUND MAIN PART OF ONE OF THE WHALES. NO PHOTOS OR VIDEO. NO RESIGHTS. BASED ON NARRATIVE, ONLY ONE WHALE IS CONFIRMED ENTANGLED, THOUGH TWO MAY HAVE BEEN PRESENT AND IN CLOSE PROXIMITY. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA/OR/WA	2018	5	14	UNIDENTIFIED FISHERY INTERACTION	SAN LUIS OBISPO	CA	SI	SINGLE WRAP OF GREEN/BLUE LINE BEHIND BLOWHOLE AND IN FRONT OF DORSAL FIN. LINE IS SNUGLY AROUND ANIMAL, BUT DOES NOT APPEAR TO BE CUTTING INTO WHALE. NO GEAR APPARENT ON FLUKES. FREE-SWIMMING ANIMAL RESIGHTED NEXT DAY, OUTCOME UNKNOWN. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. CONSTRICTING ENTANGLEMENT BECAUSE LINE IS TIGHT AROUND ANIMAL.	SI (PRORATE)	L2	1	Y	Y
HUMPBACK WHALE	CA/OR/WA	2018	5	16	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI (PRORATE)	FREE-SWIMMING WHALE TRAILING 2 WHITE BUOYS APPROXIMATELY 70 FT. BEHIND FLUKES. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA/OR/WA	2018	5	17	DUNGENESS CRAB POT FISHERY (WASHINGTON)	GRAYS HARBOR	WA	DEAD	GREEN AND WHITE LINE WRAPPED TIGHTLY AROUND LEFT PECTORAL, PASSING THROUGH LEFT GAPE. EVIDENCE OF A WRAP AROUND THROAT (BLOATING LIKELY CAUSED ROPE TO SNAP. FRAYED ENDS VISIBLE. GREEN, ORANGE, AND WHITE LINES WRAPPED AROUND TAILSTOCK. FAINT IMPRESSIONS ACROSS VENTRAL LEFT FLUKE. TRAILING 2 CRAB POTS. ORIGINALLY SEEN WITH 2 ORANGE BUOYS (WHILE FLOATING), ONE VISIBLE IN INITIAL PHOTOS OF THE BEACH LANDING, BUT HAD BEEN REMOVED BY UNKNOWN PERSONS PRIOR TO EXAMINATION. WCR REPORTS THAT GEAR INCLUDED BOTH WA STATE AND TRIBAL FISHERIES. EVIDENCE OF CONSTRICTING WRAP.	DEAD	NA	1	N	Y
HUMPBACK WHALE	CA/OR/WA	2018	5	23	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	MONTEREY	CA	SI	MULTIPLE BUOYS AND LINES WRAPPED SNUGLY AROUND THE TAILSTOCK AREA OF THE FLUKES. MULTIPLE WRAPS WITH CONSTRICTING LINE. AT LEAST TWO SETS OF GEAR INVOLVED IN THE ENTANGLEMENT, WITH CALIFORNIA AND OREGON TAGS PRESENT. MASS OF LINES ON DORSAL SIDE OF FLUKE WITH LINE WRAPPING UNDERNEATH THE TAILSTOCK AND COMING BACK OVER TOP ON BOTH FLUKE BLADES AND MEETING AT LARGE MASS IN CENTER OF FLUKE. GEAR MASS AND DRAG POTENTIAL WARRANT THIS CASE BEING DESIGNATED A SERIOUS INJURY UNDER CRITERIA L2. PHOTOS REVIEWED BY J. CARRETTA. TELEMETRY BUOYS WERE ATTACHED BY WHALE DISENTANGLEMENT TEAM, BUT DID NOT REMAIN ON WHEN WHALE DOVE. FISHERMAN WAS INTERVIEWED AND HAD BEEN FISHING NEAR CRESCENT CITY NEAR TIME OF ENTANGLEMENT. FINAL OUTCOME UNKNOWN.	SI	L2	1	Y	Y
HUMPBACK WHALE	CA/OR/WA	2018	5	27	DUNGENESS CRAB POT FISHERY (COMMERCIAL)	MONTEREY	CA	SI	TWISTED RED/ORANGE LINE (HYDROPRO) WRAPPED TIGHTLY TWICE AROUND BODY, FORWARD OF DORSAL FIN. ABBRAIDED AND INDENTED SKIN VISIBLE FROM DRONE FOOTAGE FORWARD OF ROPE. EVIDENCE THAT ROPE HAD MOVED BACKWARDS ON BODY TO CURRENT POSITION. PECTORAL FLIPPERS NOT VISIBLE FROM CLEAR DRONE FOOTAGE. ONE BUOY (WHITE WITH BLACK ON LAST 2/3 OF BUOY) WITH YELLOW DUNGENESS CRAB TAG, POTENTIALLY PINNING RIGHT PECTORAL FLIPPER TO BODY (FROM DRONE FOOTAGE). SERIOUS INJURY UNDER L2 CRITERIA DUE TO CONSTRICTING GEAR AND MULTIPLE WRAPS THAT MAY BE PINNING PECTORAL FLIPPERS. PHOTOS REVIEWED BY J. CARRETTA.	SI	L2	1	Y	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
HUMPBACK WHALE	CA/OR/WA	2018	6	29	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	SAN MATEO	CA	SI (PRORATE)	WHALE WITH LINE AROUND FLUKES WITH YELLOW AND ORANGE BUOYS AT SURFACE TRAILING ABOUT 50 YARDS BEHIND WHALE. BUOYS MOVING IN SAME DIRECTION AS WHALE AND GOING UNDERWATER WHEN WHALE DOVE. BUOYS NOT SEEN IN SAME LOCATION LATER IN THE DAY. 3 BUOYS (POTENTIALLY 4) -- 1 TRI-COLORED WITH ORANGE AND PINK/ RED WITH BLACK STRIPE IN MIDDLE WITH POSSIBLE DUNGENESS CRAB FISHERY TAG. 1 ALL ORANGE WITH SILVER OR WHITE REFLECTIVE TAPE STRIPE IN MIDDLE WITH POSSIBLE PINK TAG. 1 THAT IS HARD TO TELL IF ONE OR TWO BUT YELLOW/ORANGE IN COLOR. POTENTIAL RESIGHT IN MEXICO IN DECEMBER 2018- PHOTOS OF GEAR MATCH- FOLLOWING UP WITH RP FROM MEXICO. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. ONE POOR-QUALITY PHOTO REVIEWED BY J.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA/OR/WA	2018	7	2	GILLNET FISHERY	LOS ANGELES	CA	DEAD	BLUE MESH GILLNET THAT HAS A STRETCH DIAMETER OF JUST UNDER 12", SMALLER THAN THAT USED IN LARGE MESH GILLNET FISHERY. TEN FLOATS ON YELLOW TWISTED POLYPRO LINE (SOME FLOATS WERE BLACK, SOME WERE WHITE); LEAD LINE W/ LEADS ALSO IN TANGLED MASS. VERY SEVERE ENTANGLEMENT THAT HAS BEEN ON THIS WHALE FOR SOMETIME AS INDICATED BY THE DEEP WOUNDS AND HEAVY CYANIDE LOAD THAT IS COVERING A LOT OF THE DORSAL SURFACE OF THE BODY; MULTIPLE WRAPS OF GILLNET, ROPE, AND FLOAT FORMING TIGHT NEST AROUND PEDUNCLE AND FLUKES. CONSTRICTING ENTANGLEMENT AND HEALTH DECLINE.	DEAD	NA	1	Y	Y
HUMPBACK WHALE	CA/OR/WA	2018	7	7	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	GRAYS HARBOR	WA	SI (PRORATE)	HUMPBACK SEEN DRAGGING A SINGLE ORANGE AND WHITE BUOY, POSSIBLY ATTACHED TO LEFT PECTORAL FLIPPER. EXTENT OF ENTANGLEMENT AND AMOUNT OF GEAR UNKNOWN. PHOTOS REVIEWED BY J. CARRETTA.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA/OR/WA	2018	7	12	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	MONTEREY	CA	SI (PRORATE)	EMACIATED ADULT COW ENTANGLED WITH ATTENDENT CALF. LINE COMING OUT BOTH SIDES OF THE MOUTH. LEFT SIDE GOES UNDER THE PECTORAL FLIPPER AND HAS THREE BUOYS WITH THE FIRST AT ABOUT THE DORSAL FIN, THE THIRD JUST AT THE LEADING EDGE OF THE FLUKE. LINE COMING OUT RIGHT SIDE OF MOUTH GOES UNDER RIGHT PECTORAL FLIPPER AND DISAPPEARS AND MAY HAVE SOME WEIGHT (POT) ON THE END. ALL THREE BUOYS ORANGE COLORED AND HAVE SIGNIFICANT ALGAL GROWTH, INDICATING ENTANGLEMENT IS NOT RECENT. YELLOW DUNGENESS CRAB POT TAG ON BUOY CLOSEST TO WHALE. FINAL OUTCOME UNKNOWN. PRORATED SERIOUS INJURY WITH VALUE = 1 DUE TO EMACIATED CONDITION AND HEALTH DECLINE. PHOTOS REVIEWED BY	SI (PRORATE)	L10	1	Y	Y
HUMPBACK WHALE	CA/OR/WA	2018	7	12	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	MONTEREY	CA	SI	DEPENDENT CALF OF ENTANGLED AND SERIOUSLY-INJURED MOTHER. ASSUMPTION UNDER L8 IS THAT DEPENDENT CALF NOT LIKELY TO SURVIVE.	SI	L8	1	Y	Y
HUMPBACK WHALE	CA/OR/WA	2018	7	15	UNIDENTIFIED FISHERY INTERACTION	MENDOCINO	CA	SI (PRORATE)	MULTIPLE WRAPS OF BLUE/GRAY LINE AROUND BODY WITH A RED BULLET BUOY THAT FORMED A 'BIRD'S NEST' OF GEAR ON DORSAL ASPECT OF WHALE BETWEEN DORSAL FIN AND FLUKES. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. NO PHOTOS.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA/OR/WA	2018	7	18	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	MEXICO	MX	DEAD	DEAD HUMPBACK WHALE STRANDED IN MEXICO WITH CALIFORNIA COMMERCIAL DUNGENESS CRAB GEAR ENTANGLEMENT. PHOTOS SHOW LINE, 2 BUOYS, AND YELLOW SHIELD TAG WITH NUMBER. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN.	DEAD	NA	1	Y	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

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HUMPBACK WHALE	CA/OR/WA	2018	7	28	GILLNET FISHERY (TRIBAL)	CLALLAM	WA	SI (PRORATE)	TRIBAL FISHERMAN ENTANGLED HUMPBACK WHALE IN GILLNET IN TREATY FISHERY. THREE HOURS LATER, THE FISHERMAN REMOVED AS MUCH GEAR AS POSSIBLE AND THOUGHT THAT SOME LEADLINE GEAR STILL REMAINED ON CAUDAL PEDUNCLE. PHOTOS OF WHALE SHOW IT THRASHING ITS FLUKES. AMOUNT AND CONFIGURATION OF GEAR REMAINING ON WHALE UNKNOWN. PHOTOS REVIEWED BY J. CARRETTA.	SI (PRORATE)	L10	0.75	N	Y
HUMPBACK WHALE	CA/OR/WA	2018	7	30	UNIDENTIFIED FISHERY INTERACTION	DOUGLAS	OR	SI (PRORATE)	BRIDLE THROUGH MOUTH THAT COMES TO A KNOT FORWARD OF DORSAL HUMP. TRAILING LINE APPEARS TO TERMINATE NEAR THE FLUKES AND SWITCHES FROM THE LEFT TO RIGHT SIDE OF THE BODY AND DOES NOT APPEAR TO BE WEIGHTED DOWN. THERE IS ALSO A SHORT LOOP OF LINE EMANATING FROM THE KNOT FORWARD OF THE DORSAL. THE FLIPPERS / FLUKES / TAILSTOCK ARE NOT INVOLVED. WHALE TRAVELING AND FLUKING AT MODERATE SPEED WITH ANOTHER HUMPBACK. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN.	SI (PRORATE)	L3	0	Y	Y
HUMPBACK WHALE	CA/OR/WA	2018	8	3	GILLNET FISHERY	CLALLAM	WA	NSI	WHALE WITH GILLNET MESH ATTACHED TO RIGHT FLUKE TIP PHOTOGRAPHED ON 8/3/2018. ANIMAL WAS RESIGHTED ON 9/14/2018 BY MARINE MAMMAL LAB (JEFF HARRIS) AS FREE FROM GEAR. PHOTOS OF ENTANGLEMENT AND POST-ENTANGLEMENT EXAMINED ANCHORED 25 FT. LONG JUVENILE HUMPBACK FIRST REPORTED ON 8/5/2018 WITH LINE EMBEDDED IN DORSAL CAUDAL PEDUNCLE. WITH ASSOCIATED MASSIVE LACERATION NEARLY SEVERING FLUKES. RESEARCHERS ON R/V REUBEN LASKER SIGHTING WHALE DURING A LINE-TRANSECT SURVEY ON 8/7 AND CONTACTED CASCADIA RESEARCH. CASCADIA RESCUE TEAM WAS ABLE TO ATTACH TELEMETRY BUOY ON 8/7/2018, WITH NOAA VESSEL REUBEN LASKER STANDING BY FOR ASSISTANCE. CASCADIA TEAM RETURNED ON 8/8/2018 AND REMOVED LINE AND BUOYS ATTACHED TO A CRAB POT AND WHALE SWAM OFF. GEAR WAS RECOVERED AND RETAINED. BASED ON PHOTOS, THE PROBABILITY OF THE WHALE LOSING ITS FLUKES IS SUBSTANTIAL. SERIOUS INJURY UNDER SERIOUS INJURY CRITERIA L2 AND SEVERITY OF DAMAGE TO CAUDAL PEDUNCLE. CONSTRICTING ENTANGLEMENT. HEALTH DECLINE. PHOTOS REVIEWED BY	NSI	L3	0	N	N
HUMPBACK WHALE	CA/OR/WA	2018	8	5	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	HUMBOLDT	CA	SI	ENTANGLED HUMPBACK WHALE TO USCG. THE USCG FLEW OVER AND CONFIRMED. WHALE THROAT WAS DISTENDED FLOATING BELLY UP HIGH IN THE WATER. ORANGE BUOYS SEEN NEAR TAILSTOCK IN AERIAL PHOTOS. OBSERVERS FROM SHORE ON 07 AUG REPORTED SEEING BUOYS NEAR WHALE AND CARCASS APPEARED TO BE ANCHORED IN PLACE. ALL LINES AND BUOYS WERE REMOVED BEFORE OUR ARRIVAL. WE WERE ABLE TO CONFIRM THIS AS THE SAME ANIMAL REPORTED ON AUGUST 6TH USING PIGMENTATION ON THE PLEATS FROM BOTH SIGHTINGS. TWO DEEP IMPRESSIONS WITH A THREE-STRAND LINE PATTERN ON THE RIGHT PECTORAL AND LINE MARKS AND ABRASIONS AROUND TAIL STOCK AND PEDUNCLE INDICATED THAT THE WHALE HAD BEEN ENTANGLED RECENTLY. THE TEAM COLLECTED STILL PHOTOGRAPHS AND UNDERWATER IMAGES FROM A GOPRO MOUNTED ON A POLE. NECROPSY: THREE	SI	L2	1	Y	Y
HUMPBACK WHALE	CA/OR/WA	2018	8	6	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	GRAYS HARBOR	WA	DEAD		DEAD	NA	1	Y	Y

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HUMPBACK WHALE	CA/OR/WA	2018	8	11	GILLNET FISHERY (TRIBAL)	CLALLAM	WA	SI	FISHERMAN PARTICIPATING IN SOCKEYE GILLNET TREATY FISHERY REPORTED ENTANGLING A WHALE ON 8/11/2018. ESTIMATED TIME OF ENTANGLEMENT WAS 2130 HRS LOCAL. WHALE WAS WRAPPED IN CORKLINE OF NET AND HAD PULLED JACKLIGHT AND FLAGPOLE UNDERWATER. FISHERMAN'S NARRATIVE NOTED WHALE WAS VERY WOUND UP IN NET. EXTENSIVE CONSTRICTING ENTANGLEMENT. WHALE DIED THE NEXT DAY, CARCASS SANK WITH GEAR. NO NECROPSY.	DEAD	NA	1	N	Y
HUMPBACK WHALE	CA/OR/WA	2018	8	11	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	SAN DIEGO	CA	SI	ENTANGLED JUVENILE HUMPBACK SUFFERING A HEALTH DECLINE. ANIMAL'S BODY HAS PATCHES OF RUST-COLORED WHALE LICE. COLORATION OF SKIN APPEARS TO BE LIGHT / DULL, WITH SLOUGHING SKIN. YELLOW POLY LINE SEEN WRAPPED MULTIPLE TIMES AROUND PEDUNCLE, WHERE LINE IS EMBEDDED. MULTIPLE WRAPS AND CONSTRICTING ENTANGLEMENT. APPROXIMATELY 10 FT OF LINE TRAILING BEYOND FLUKES. LARGE AREAS OF ABRADED, RAW PINK SKIN RELATED TO ENTANGLEMENT. PHOTOS REVIEWED BY J. CARRETTA.	SI	L2	1	Y	Y
HUMPBACK WHALE	CA/OR/WA	2018	8	11	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	CURRY	OR	SI (PRORATE)	TRAILING TWO BUOYS APPROXIMATELY 1 TO 2 BODY LENGTHS BEHIND ANIMAL. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. NO PHOTOS.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA/OR/WA	2018	8	12	GILLNET FISHERY (TRIBAL)	CLALLAM	WA	SI (PRORATE)	REPORT OF A HUMPBACK WHALE TRAILING A CORKLINE AND CORKS. PHOTO SHOWS WHALE TRAILING GEAR THAT IS AT LEAST AS LONG AS WHALE. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA/OR/WA	2018	8	26	UNIDENTIFIED FISHERY INTERACTION	SAN FRANCISCO	CA	SI (PRORATE)	WHALE WAS DRAGGING 2 BUOYS, A MAIN BUOY (RED/ORANGE) AND A TRAILER BUOY (YELLOW). THE TRAILER WAS ABOUT 20FT BEHIND THE WHALE. THE ATTACHMENT POINT IS UNKNOWN, THE ANIMAL WAS OBSERVED FLUKE-UP DIVING, BUT NO GEAR WAS SEEN ON THE FLUKES DURING THE DIVES. GEAR CONFIGURATION AND AMOUNT UNKNOWN. PHOTOS REVIEWED BY J.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA/OR/WA	2018	8	30	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	CLALLAM	WA	SI (PRORATE)	WHALE REPORTED ENTANGLED IN TWO COMMERCIAL CRAB POT BUOYS. (1 YELLOW AND 1 RED WITH A LOT OF GROWTH ON BOTH). THIS WAS WITNESSED FROM 200 YARDS AWAY. NO PHOTOS. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA/OR/WA	2018	9	4	SPOT PRAWN TRAP/POT FISHERY (RECREATIONAL)	MONTEREY	CA	SI	SINGLE WRAP AROUND WHALE RIGHT AT THE TAIL STOCK WITH LINE APPEARING TO LOOP OVER ITSELF OR WRAP AROUND ITSELF SOMEWHERE UNDER THE FLUKE. WHITE BUOY AND ORANGE POLYBALL CLOSE TO ANIMAL FROM AERIAL PHOTOS. WHALE DESCRIBED AS ANCHORED IN PLACE WITH A FLATTENED BODY POSITION WITHOUT MUCH MOVEMENT. SKIN RAW AND RED/PINK ON DORSAL ASPECT ON CAUDAL PEDUNCLE. EXTENSIVE SCUFF MARKS ON HEAD AND DORSAL FIN AREA. EVIDENCE THAT GEAR HAD MIGRATED FROM FRONT TO REAR OF ANIMAL. THE WHALE BECAME AGITATED WHEN A DISENTANGLEMENT TEAM APPROACHED, AND AT THAT TIME, THE WHALE SHED THE GEAR ON ITS OWN. WHALE REMAINED IN AREA FOR 5 MINUTES, THEN SLOWLY STARTED SWIMMING AWAY, INCREASINGLY USING ITS FLUKES. FISHERY IDENTIFIED FROM RECOVERED GEAR. INTERVIEW WITH FISHERMAN INDICATED GEAR (WITH 3 TRAPS) HAD BEEN SET THE PRIOR DAY. NON-SERIOUS INJURY DUE TO SHED ENTANGLED IN LINE AND FLOATS, BUT NO DESCRIPTION OF WHERE ON ANIMAL. CONFIRMED BASED ON TWO INDEPENDENT SIGHTINGS FROM FISHERMEN. THE ANIMAL WAS UNABLE TO BE RELOCATED BY USCG. NO FURTHER SIGHTINGS. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN.	NSI	L2	0	Y	N
HUMPBACK WHALE	CA/OR/WA	2018	9	17	UNIDENTIFIED FISHERY INTERACTION	CLATSOP	OR	SI (PRORATE)		SI (PRORATE)	L10	0.75	Y	Y

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HUMPBACK WHALE	CA/OR/WA	2018	9	21	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	SAN DIEGO	CA	DEAD	DEAD HUMPBACK CALF FOUND DURING CCES 2018 MARINE MAMMAL CRUISE. WHALE HAD LINE AND BUOYS WRAPPED AROUND TAIL. FISHERY CONFIRMED FROM TAG ON BUOY. PHOTOS REVIEWED BY J. CARRETTA.	DEAD	NA	1	Y	Y
HUMPBACK WHALE	CA/OR/WA	2018	9	27	UNIDENTIFIED FISHERY INTERACTION	SAN LUIS OBISPO	CA	SI	HUMPBACK CALF WITH BLUE/GREEN LINE TRAILING 40-50 FEET WITH THREE BUOYS (GREEN/WHITE) ATTACHED TO RIGHT PECTORAL FLIPPER. GREEN CA DUNGENESS CRAB TAG SEEN ON THE FIRST BUOY. BASED ON AERIAL PHOTOS, LINE MAY BE ATTACHED TO UNDERSIDE OF FLIPPER. WHALE OTHERWISE IN GOOD HEALTH AS SHOWN IN PHOTOS. ACCOMPANIED BY MOTHER. PHOTOS REVIEWED BY J. CARRETTA.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA/OR/WA	2018	9	29	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	MONTEREY	CA	NSI	LINE ATTACHED TO WHALE AT UNKNOWN LOCATION AND CONFIGURATION WITH A RED AND WHITE BUOY ON THE SIDE OF THE WHALE NEAR THE PECTORAL FLIPPER. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. REPORTING PARTY DESCRIBED AS CRAB POT GEAR.	NSI	L3	0	N	N
HUMPBACK WHALE	CA/OR/WA	2018	9	30	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	SAN LUIS OBISPO	CA	SI (PRORATE)	WHALE TRAILING 3 BUOYS TOTAL. 1 "CRAB STYLE" LARGER BUOY WITH 2 SMALLER BUOYS. REPORTING PARTY THOUGHT THEY MAY HAVE ALL BEEN WHITE OR HAD SOME WHITE ON THEM BUT COULDN'T REMEMBER FOR SURE. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. DIFFERENTIATED FROM OTHER 9/30/2018 ENTANGLEMENT IN SAME AREA BY NUMBER AND COLOR	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA/OR/WA	2018	9	30	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	SAN LUIS OBISPO	CA	SI (PRORATE)	HUMPBACK CALF ENTANGLED IN CONFIRMED COMMERCIAL SPOT PRAWN GEAR WHICH WAS SET 2 DAYS PRIOR TO OBSERVATION AND PARTIAL RELEASE BY FISHERMAN. LARGE ORANGE BUOY NEAR FORWARD PART OF THE BODY WITH UNKNOWN ATTACHMENT POINT, LIKELY MOUTH OR PECTORAL FLIPPERS. FADED YELLOW BUOY TRAILING ABOUT 30FT BEHIND. BOTH ONLY VISIBLE WHEN SURFACING. FISHERMEN WINCHED UP CALF TO SIDE OF THE BOAT TO MAKE DISENTANGLEMENT CUTS. VERTICAL ASPECT PHOTO SHOWS LINE AND BUOY STILL ON TAIL AFTER REMOVED FROM GROUNDING LINE. NO FURTHER ACTION TAKEN AS WHALE SWAM OFF. AMOUNT AND CONFIGURATION OF REMAINING GEAR UNKNOWN. MULTIPLE WRAPS OF LINE EMBEDDED DEEPLY AT FLUKE INSERTION WITH 400 FEET OF TRAILING LINE.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA/OR/WA	2018	10	12	CA SPOT PRAWN TRAP FISHERY	MONTEREY	CA	SI (PRORATE)	CONSTRUCTING ENTANGLEMENT. WHALE HAD SEVERAL LARGE PATCHES OF ORANGE-COLORED CYAMIDS, INDICATING A HEALTH DECLINE. INITIAL DISENTANGLEMENT RESPONSE REMOVED APPROXIMATELY 350 FEET OF TRAILING LINE. A 2ND DISENTANGLEMENT EFFORT REMOVED MOST OF THE LOOSE GEAR, BUT EMBEDDED LINE REMAINED. FISHERY POSITIVELY IDENTIFIED FROM PERMIT TAG ON	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA/OR/WA	2018	10	12	DUNGENESS CRAB POT FISHERY (OREGON)	SAN MATEO	CA	SI		SI	L2	1	Y	Y

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
HUMPBACK WHALE	CA/OR/WA	2018	10	13	VESSEL STRIKE	MARIN	CA	DEAD	NECROPSY FINDINGS. WHALE WAS IN GOOD BODY CONDITION, A BIT THIN, BUT WITH ADEQUATE BLUBBER LAYER. THERE WERE AREAS OF HEMORRHAGE OVER THE DORSAL SURFACE OF THE CRANIUM AND ON THE DORSAL THORAX IMMEDIATELY CRANIAL TO THE DORSAL FIN AND EXTENDING TOWARDS THE CRANIUM. THE VERTEBRAE AND VERTEBRAL DISKS WERE DISBURSED THROUGHOUT THE BODY, MANY OF WHICH HAD PERIOSTEAL DISCOLORATION (BONE BRUISING). THE RIBS WERE INTACT BUT ALSO HAD SIMILAR BONE BRUISING. THE LEFT SCAPULA WAS FOUND 3 METERS AWAY FROM THE BODY WITH FRACTURES AND BONE BRUISING. THE CRANIUM HAD BONE BRUISING ON THE DORSAL SURFACE AND FRACTURES ON THE PARAOCIPITAL PROCESSES, AND REPORTING PARTY NOTED 2 ORANGE CRAB POT BUOYS NEAR THE TAIL OF THE WHALE. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. NO PHOTOS.	DEAD	NA	1	N	Y
HUMPBACK WHALE	CA/OR/WA	2018	10	15	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	MENDOCINO	CA	SI (PRORATE)	PHOTOS SHOW WHALE WITH LARGE DIAGONAL, NARROW-DIAMETER WOUND BETWEEN DORSAL HUMP AND BLOWHOLE. ORIENTATION OF WOUND IS FROM DORSAL SURFACE, EXTENDING DIAGONALLY TOWARDS REAR AND VENTRUM OF WHALE, CONSISTENT WITH A CONSTRICTING LINE EXPERIENCING DRAG. INDENTATION AND LARGE AREAS OF BODY COVERED WITH CYAMIDS, INDICATING A HEALTH DECLINE. PHOTOS INCONCLUSIVE ON WHETHER LINE IS STILL EMBEDDED IN WHALE, BUT INJURY IS CONSISTENT WITH CONSTRICTING ENTANGLEMENT. PHOTOS REVIEWED BY J. CARRETTA.	SI (PRORATE)	L10	0.75	Y	Y
HUMPBACK WHALE	CA/OR/WA	2018	11	3	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI	LOOSE DRAPED TRAILING LINE (30 FEET) WITH NO APPARENT TENSION AND SINGLE RED AND WHITE BUOY APPEAR TO BE LOOSELY CONNECTED TO UNDERSIDE OF FLUKES, PERHAPS ATTACHED VIA BARNACLES. WHALE FREE-SWIMMING. PHOTOS REVIEWED BY J. CARRETTA.	SI	L2	1	Y	Y
HUMPBACK WHALE	CA/OR/WA	2018	11	4	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	MONTEREY	CA	NSI	TIGHT WRAP OR WRAPS RIGHT AT THE FLUKE INSERTION WITH SHORT GREEN LINE TRAILING UNDERNEATH FLUKE AND TWO BUOYS APPROX 3 FEET BEHIND THE FLUKES AND ONLY COME TO THE SURFACE WHEN WHALE IS FLUKE UP DIVING. LACERATION IN FLUKE REGION EVIDENT FROM PHOTOS REVIEWED BY J. CARRETTA.	NSI	L3	0	N	N
HUMPBACK WHALE	CA/OR/WA	2018	11	17	UNIDENTIFIED FISHERY INTERACTION	SAN DIEGO	CA	SI	MULTIPLE WRAPS OF LINE OVER / AROUND BODY IN FRONT OF THE DORSAL FIN WITH EVIDENCE THE GEAR HAS MOVED FROM BACK DUE TO ABRASIONS WITH ASSOCIATED SKIN DISCOLORATION. TWO BUOYS NEXT TO THE BODY NEAR THE WRAPS. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. POOR-QUALITY PHOTOS REVIEWED BY J. CARRETTA.	SI	L2	1	Y	Y
HUMPBACK WHALE	CA/OR/WA	2018	12	3	DUNGENESS CRAB POT FISHERY (CALIFORNIA)	MARIN	CA	SI	ANIMAL REPORTED LIVE ON BEACH ROCKS WITH BLOOD COMING FROM DIFFERENT PARTS OF THE BODY. THE ANIMAL HAD BRUISING IN THE THORACIC AREA WHERE THERE WAS EVIDENCE OF HUMAN INTERACTION, THOUGHT TO BE A METAL CABLE OF SOME KIND, THAT FRACTURED THE VERTEBRA IN THAT AREA. USED CRITERIA 15A DUE TO EVIDENCE OF BLOOD COMING FROM BODY. TREMENDOUS HEMORRHAGE ASSOCIATED WITH BEING SHOT THROUGH LEFT SKULL; EXTENSIVE HEMORRHAGE ON LEFT DORSAL THORAX AND LEFT FLIPPER; RIGHT SIDE OF WHALE COULD NOT BE EXAMINED (HEAVY EQUIPMENT REQUIRED)	SI	L10	0.75	Y	Y
MINKE WHALE	CA-OR-WA	2014	6	6	MARINE DEBRIS	MENDOCINO	CA	SI	FULL BLACKCOAT, MILDLY UNDERWEIGHT, SHIVERING, NO TEETH. HARASSED.	DEAD	NA	1	N	Y
MINKE WHALE	CA-OR-WA	2017	5	28	SHOOTING	PACIFIC	WA	DEAD	LETHARGIC, NOT MOVING WHEN APPROACHED BY DOGS AND PEOPLE, MODERATELY UNDERWEIGHT. HARASSED.	DEAD	NA	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2014	2	26	HARASSMENT	SAN LUIS OBISPO	CA	NSI		NSI	P9	0	N	N
NORTHERN ELEPHANT SEAL	CALIFORNIA	2014	3	3	HARASSMENT	SANTA CRUZ	CA	NSI		NSI	P9	0	N	N

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NORTHERN ELEPHANT SEAL	CALIFORNIA	2014	3	9	OIL / TAR	SAN LUIS OBISPO	CA	SI	EMACIATED, LETHARGIC. TAR ON DORSUM, 2 PATCHES RIGHT CRUDAL AND RIGHT DORSAL/LAST RIB.	SI	P1	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2014	3	14	OIL / TAR	SAN MATEO	CA	SI	EMACIATED, LETHARGIC, TAR ON RIGHT SIDE.	SI	P1	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2014	3	14	OIL / TAR	MONTEREY	CA	SI	EMACIATED, LETHARGIC, HARASSED BY PEOPLE - POURING WATER. HARASSED/ OIL/TAR. EXTERNAL EXAM	SI	P1	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2014	3	18	OIL / TAR	SAN LUIS OBISPO	CA	SI	EMACIATED, OIL / TAR.	SI	P1	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2014	3	19	HARASSMENT	SAN LUIS OBISPO	CA	NSI	EMACIATED ANIMAL HARASSED BY DOGS ON BEACH	NSI	P9	0	N	N
NORTHERN ELEPHANT SEAL	CALIFORNIA	2014	3	20	OIL / TAR	MONTEREY	CA	SI	EMACIATED, LETHARGIC ANIMAL WITH OIL / TAR.	SI	P1	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2014	3	21	OIL / TAR	MONTEREY	CA	SI	EMACIATED ANIMAL WITH OIL / TAR.	SI	P1	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2014	3	30	OIL / TAR	MONTEREY	CA	SI	EMACIATED, TAR ABOVE RIGHT EYE AND ON LEFT SIDE OF BACK. OIL/TAR.	SI	P1	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2014	3	31	MARINE DEBRIS	SONOMA	CA	SI	BLACK RUBBER CORD AROUND NECK. DISENTANGLED AND TAGGED ON BEACH. GOOD BODY WEIGHT, MOLTING.	NSI	P7B	0	N	N
NORTHERN ELEPHANT SEAL	CALIFORNIA	2014	4	3	OIL / TAR	MONTEREY	CA	SI	EMACIATED AND ACTIVE. OIL / TAR	SI	P1	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2014	4	5	HARASSMENT	SAN LUIS OBISPO	CA	NSI	EMACIATED ANIMAL ON BEACH TOUCHED/HANDLED BY MEMBERS OF PUBLIC	NSI	P9	0	N	N
NORTHERN ELEPHANT SEAL	CALIFORNIA	2014	4	7	HARASSMENT	SAN MATEO	CA	NSI	EMACIATED ANIMAL ON BEACH TOUCHED/HANDLED BY MEMBERS OF PUBLIC	NSI	P10	0	N	N
NORTHERN ELEPHANT SEAL	CALIFORNIA	2014	4	8	OIL / TAR	SAN LUIS OBISPO	CA	SI	EMACIATED ANIMAL WITH OIL / TAR.	SI	P1	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2014	4	13	MARINE DEBRIS	SAN MATEO	CA	SI	WHITE PACKING STRAP ENTANGLEMENT EMBEDDED IN NECK. STRAP REMOVED DURING RESCUE EFFORT.	NSI	P7B	0	N	N
NORTHERN ELEPHANT SEAL	CALIFORNIA	2014	4	29	OIL / TAR	SAN MATEO	CA	SI	EMACIATED ANIMAL WITH OIL / TAR.	SI	P1	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2014	7	24	SHOOTING	CLATSOP	OR	DEAD	MULTIPLE SHOTS	DEAD	NA	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2014	9	21	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2014	11	14	HAWAII LONGLINE SHALLOW SET FISHERY	OFFSHORE	CA	NSI	ANIMAL HOOKED IN MOUTH/LIP. ANIMAL ALONGSIDE VESSEL. HOOK REMOVED WITHOUT INCIDENT, NO GEAR REMAINING ON ANIMAL, NO BLEEDING OR VISIBLE ANIMAL IN RIGOR MORTIS BROUGHT UP IN NET. ANIMAL CONDITION (NO DECOMPOSITION EVIDENT) EVIDENCE OF DROWNING.	NSI	P5C	0	N	N
NORTHERN ELEPHANT SEAL	CALIFORNIA	2015	2	3	CATCH SHARES BOTTOM TRAWL	OFFSHORE	OR	DEAD	PEOPLE DRAGGING THE SEAL UP AND DOWN THE BEACH. TRANSFERRED TO REHAB FACILITY, OUTCOME UNKNOWN.	DEAD	NA	1	Y	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2015	2	23	HARASSMENT	SAN DIEGO	CA	SI	HUMAN KILLED SEAL BY THROWING LARGE ROCK ON ITS HEAD MULTIPLE TIMES.	SI	P9	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2015	2	28	BLUNT FORCE TRAUMA	SAN DIEGO	CA	DEAD	BAD LOCATION, HARASSED BY DOGS, GOOD BODY WEIGHT AND CONDITION, PINK GUMS, VOCAL, FULL BLACK COAT. TREATED AT REHAB FACILITY AND RELEASED. CONSIDERED A DEPENDED ANIMAL RELEASED ALONE AND THUS CONSIDERED A SERIOUS INJURY.	DEAD	NA	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2015	2	28	HARASSMENT	SAN LUIS OBISPO	CA	SI	EMACIATED, TAR PATCHES ON RIGHT REAR FLIPPERS. ANIMAL DIED IN REHAB FACILITY.	SI	P14	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2015	4	4	OIL / TAR	SAN MATEO	CA	SI	EMACIATED. LARGE AMOUNT OF TAR ON LEFT SIDE OF NECK. ANIMAL DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2015	4	4	OIL / TAR	SAN MATEO	CA	SI	THIN AND LETHARGIC. TAR ON NECK AND SIDE IN MULTIPLE SPOTS (LEFT AND RIGHT SIDE) ABOUT 1.5X1.5 INCHES WIDE. PEOPLE ON THE BEACH WERE PETTING THE SEAL. TREATED AT REHAB FACILITY AND RELEASED.	DEAD	NA	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2015	4	24	OIL / TAR	SAN DIEGO	CA	SI	ANIMAL HAULED UP DEAD IN LONGLINE SABLEFISH GEAR. OBSERVER PROGRAM.	NSI	P9	0	N	N
NORTHERN ELEPHANT SEAL	CALIFORNIA	2015	4	25	LIMITED ENTRY SABLEFISH HOOK AND LINE	OFFSHORE	WA	DEAD	SMALL PUNCTURE ON RIGHT VENTRAL MANDIBLE. ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. 2-25% EXTERNAL OILING SEEN ON VENTRAL THORAX, VENTRAL CHIN, AND ON FLIPPER. TREATED AND RELEASED FROM REHAB FACILITY.	DEAD	NA	1	Y	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2015	5	22	OIL / TAR	SANTA BARBARA	CA	SI	CATCHER PROCESSOR MIDWATER TRAWL	NSI	P9	0	N	N
NORTHERN ELEPHANT SEAL	CALIFORNIA	2015	5	23	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	WA	DEAD	SMALL ELEPHANT SEAL DROWNED IN THE NET. EMACIATED, DEHYDRATED. 2-25% EXTERNAL OILING SEEN ON HEAD AND FLANKS. ANIMAL COLLECTED AS PART OF THE REFUGIO BEACH OIL SPILL RESPONSE. DIED IN REHAB FACILITY.	DEAD	NA	1	Y	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2015	5	23	OIL / TAR	SANTA BARBARA	CA	SI		DEAD	NA	1	N	Y

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NORTHERN ELEPHANT SEAL	CALIFORNIA	2015	5	23	OIL / TAR	SAN LUIS OBISPO	CA	SI	UNDERWEIGHT, FRESH TAR ON BODY, BLOODY HIND END, LETHARGIC. TAR SAMPLED AT SLO AS PART OF SANTA BARBARA OIL SPILL. ANIMAL DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2015	5	24	OIL / TAR	SANTA BARBARA	CA	SI	LESS THAN 2% EXTERNAL OILING SEEN ON VENTRUM, SHOULDERS BILATERALLY, HIND FLIPPERS AND RIGHT LATERAL ABDOMEN. ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. ANIMAL EUTHANIZED IN REHAB DUE TO SEVERE CATARACTS.	DEAD	NA	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2015	5	24	OIL / TAR	SANTA BARBARA	CA	SI	SWOLLEN RECTAL AREA. LESS THAN 2% EXTERNAL OILING SEEN ON HIND FLIPPER AND VENTRUM. ANIMAL WAS COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. ANIMAL DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2015	5	25	OIL / TAR	VENTURA	CA	SI	ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. LESS THAN 2% EXTERNAL OILING SEEN ON VENTRUM, HIND FLIPPERS, AND TAIL. THIN AND DEHYDRATED. EUTHANIZED IN REHAB FACILITY.	DEAD	NA	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2015	5	25	OIL / TAR	SANTA BARBARA	CA	SI	THIN, DEHYDRATED. SMALL LACERATIONS ON HEAD ABOVE RIGHT EYE AND MUZZLE. 2-25% EXTERNAL OILING SEEN ON FACE, NECK, CHEST, ABDOMEN, AND HIND FLIPPERS. ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. ANIMAL DIED IN REHAB FACILITY.	DEAD	NA	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2015	6	6	OIL / TAR	SANTA BARBARA	CA	SI	2-25% EXTERNAL OILING SEEN ON DORSAL AND VENTRAL ABDOMEN. UNDERSIDE OF BOTH FRONT AND REAR FLIPPERS. ANIMAL COLLECTED AS PART OF REFUGIO BEACH OIL SPILL RESPONSE. ANIMAL DIED IN REHAB FACILITY. NECROPSY REVEALED COMPLEX MANDIBULAR	DEAD	NA	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2015	7	21	LIMITED ENTRY SABLEFISH HOOK AND LINE	OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR. OBSERVER PROGRAM.	DEAD	NA	1	Y	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2015	10	1	MARINE DEBRIS	SAN MATEO	CA	SI	ENTANGLEMENT AROUND NECK CUTTING INTO THE VENTRAL SIDE AND LOOSE ON THE BACK OF THE NECK. REMOVED IN FIELD WITHOUT SEDATION.	NSI	P7B	0	N	N
NORTHERN ELEPHANT SEAL	CALIFORNIA	2015	10	23	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2015	12	7	MARINE DEBRIS	SAN LUIS OBISPO	CA	SI	DISENTANGLED ON THE BEACH FROM A ROPE AROUND NECK, WOUND BLED SLIGHTLY AFTER DISENTANGLEMENT.	NSI	P7B	0	N	N
NORTHERN ELEPHANT SEAL	CALIFORNIA	2015	12	30	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2016	1	22	MARINE DEBRIS	SAN LUIS OBISPO	CA	NSI	ANIMAL DISTANGLED FROM WHITE PACKING BAND ON SITE. NO INFORMATION ON ANIMAL'S CONDITION.	NSI	P7B	0	N	N
NORTHERN ELEPHANT SEAL	CALIFORNIA	2016	1	24	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2016	1	30	MARINE DEBRIS	SAN LUIS OBISPO	CA	SI	ANIMAL DISTANGLED FROM WHITE PACKING STRAP CONSTRICTING BODY; ANIMAL RELEASED ON SITE.	NSI	P7B	0	N	N
NORTHERN ELEPHANT SEAL	CALIFORNIA	2016	2	21	HARASSMENT	SAN MATEO	CA	NSI	WEANED PUP BEING HARASSED BY PUBLIC. RELOCATED TO ANO NUEVO.	NSI	P9	0	N	N
NORTHERN ELEPHANT SEAL	CALIFORNIA BREEDING	2016	4	10	OPEN ACCESS CA HALIBUT BOTTOM TRAWL	OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2016	4	27	MARINE DEBRIS	MONTEREY	CA	SI	EMACIATED, LETHARGIC, MULTIPLE MINOR SKIN WOUNDS WITH FEW ABSCESSSES, HARSH LUNG SOUNDS, MULTIPLE SMALL CORNEAL OPACITIES NOTED BILATERALLY. PIECE OF WHITE PLASTIC TUBE FOUND IN STOMACH DURING POST-MORTEM EXAM.	DEAD	NA	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2016	5	24	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2016	6	16	SHOOTING	NA	OR	DEAD	EXTENSIVE HEMORRHAGE IN HEAD AND AT THORAX AND SCAPULAE AREA; SMALL PELLET-LIKE HOLES IN HEAD AND ONE IN ORBITAL BONE.	DEAD	NA	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2016	11	5	MARINE DEBRIS	SAN MATEO	CA	SI	ANIMAL DESCRIBED AS HAVING EXCELLENT BODY CONDITION, ENTANGLED IN UNDESCRIBED MATERIAL. DISENTANGLED / RELEASED ON SITE.	NSI	P7B	0	N	N
NORTHERN ELEPHANT SEAL	CALIFORNIA	2017	2	3	HARASSMENT	SAN LUIS OBISPO	CA	SI	PUBLIC WAS TOUCHING AND HARASSING A PUP. PICKED UP TREATED AND RELEASED BY REHAB FACILITY.	SI	P14	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2017	2	23	HARASSMENT	MARIN	CA	SI	PUBLIC HARASSING A MILDLY UNDERWEIGHT PUP.	SI	P14	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2017	2	26	HARASSMENT	SAN MATEO	CA	SI	PUBLIC HARASSING A MILDLY UNDERWEIGHT PUP.	SI	P14	1	N	Y

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NORTHERN ELEPHANT SEAL	CALIFORNIA	2017	3	27	OIL / TAR	SAN LUIS OBISPO	CA	SI	MALNOURISHED ANIMAL WITH OIL / TAR ON IT BEING HARASSED BY PEOPLE.	SI	P9	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2017	3	30	HOOK AND LINE FISHERY	LOS ANGELES	CA	SI	EMACIATED ANIMAL WITH THREE FISH HOOKS IN CHIN AND REAR FLPPER.	SI	P5B	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2017	4	2	MARINE DEBRIS	SAN LUIS OBISPO	CA	SI	PACKING STRAP ENTANGLEMENT AROUND NECK. ANIMAL DISENTANGLED IN THE FIELD WITHOUT SEDATION. ANIMAL LEFT AT SITE, NO FURTHER DETAILS ON EXTENT OF INJURY. CONSERVATIVELY ASSIGNED AS A SERIOUS INJURY DUE TO LACK OF DETAILS ON INJURY SEVERITY.	SI	P7B	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2017	4	10	OIL / TAR	MONTEREY	CA	SI	MALNOURISHED ANIMAL WITH OIL / TAR ON IT BEING HARASSED BY PEOPLE.	SI	P9	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2017	4	11	OIL / TAR	ORANGE	CA	SI	MALNOURISHED ANIMAL WITH OIL / TAR ON IT BEING HARASSED BY PEOPLE.	SI	P9	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2017	4	12	OIL / TAR	ORANGE	CA	SI	MALNOURISHED ANIMAL WITH OIL / TAR ON IT BEING HARASSED BY PEOPLE.	SI	P9	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2017	4	12	OIL / TAR	ORANGE	CA	SI	MALNOURISHED ANIMAL WITH OIL / TAR ON IT BEING HARASSED BY PEOPLE.	SI	P9	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2017	4	14	OIL / TAR	ORANGE	CA	SI	MALNOURISHED ANIMAL WITH OIL / TAR ON IT BEING HARASSED BY PEOPLE.	SI	P9	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2017	4	14	HARASSMENT	SONOMA	CA	NSI	ANIMAL IN GOOD BODY CONDITION RELOCATED BECAUSE OF HARASSMENT BY PEOPLE AND DOGS.	NSI	P9	0	N	N
NORTHERN ELEPHANT SEAL	CALIFORNIA	2017	4	19	HARASSMENT	SAN DIEGO	CA	SI	UNDERWEIGHT ANIMAL WITH ORANGE PAINT ON	SI	P9	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2017	4	25	OIL / TAR	ORANGE	CA	SI	UNDERWEIGHT ANIMAL WITH OIL AND TAR PATCHES AND PUNCTURE WOUND ON NECK.	SI	P9	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2017	5	4	OIL / TAR	ORANGE	CA	SI	UNDERWEIGHT ANIMAL WITH TAR ON FACE AND ABDOMEN.	SI	P9	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2017	5	26	HARASSMENT	MARIN	CA	NSI	HARASSED BY PEOPLE AND DOGS. RELOCATED TO A DIFFERENT BEACH.	NSI	P9	0	N	N
NORTHERN ELEPHANT SEAL	CALIFORNIA	2017	6	9	OIL / TAR	ORANGE	CA	SI	UNDERWEIGHT ANIMAL WITH TAR PATCHES ON BODY.	SI	P9	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2017	6	14	MS CATCHER VESSELS MIDWATER TRAWL	OFFSHORE	WA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2017	6	18	HARASSMENT	SAN DIEGO	CA	NSI	ANIMAL IN GOOD BODY CONDITION RELOCATED BECAUSE OF HEAVY LEVEL OF HARASSMENT BY PEOPLE.	NSI	P9	0	N	N
NORTHERN ELEPHANT SEAL	CALIFORNIA	2017	7	18	HARASSMENT	SAN DIEGO	CA	NSI	ANIMAL IN GOOD BODY CONDITION RELOCATED BECAUSE OF HEAVY LEVEL OF HARASSMENT BY PEOPLE.	NSI	P9	0	N	N
NORTHERN ELEPHANT SEAL	CALIFORNIA	2017	8	13	VESSEL STRIKE	MONTEREY	CA	DEAD	CLEAR PROPELLER STRIKE WOUNDS ON SIDE OF ANIMAL.	DEAD	NA	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2017	9	12	GULF OF ALASKA PACIFIC COD LONGLINE	OFFSHORE	AK	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2017	11	14	CA SWORDFISH DRIFT GILLNET FISHERY	NA	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2017	11	16	GULF OF ALASKA SABLEFISH LONGLINE	OFFSHORE	AK	SI	OBSERVER PROGRAM. ANIMAL WITH WHITE MATERIAL AROUND NECK DUMPED BACK OVERBOARD AFTER BEING BROUGHT ON DECK. OBSERVER NOTED THAT THE ANIMAL WAS INJURED.	SI	P4	1	Y	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2017	11	17	CA SWORDFISH DRIFT GILLNET FISHERY	NA	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2017	12	11	CA SWORDFISH DRIFT GILLNET FISHERY	NA	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2018	3	6	OIL / TAR	SAN LUIS OBISPO	CA	SI	PATCHES OF OIL/TAR ON AN EMACIATED ELEPHANT SEAL IN MULTIPLE LOCATIONS: 5-6CM PATCH ON CAUDAL DORSUM, 0.5-1CM PATCHES ON VENTRUM, LEFT LATERAL BODY, AND ALONG LEFT FRONT FLPPER.	SI	P9	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2018	3	27	OIL / TAR	MONTEREY	CA	SI	MALNOURISHED ANIMAL ON A BEACH WITH PEOPLE POLING IT WITH STICKS. MULTIPLE TAR PATCHES PRESENT ON RIGHT/LEFT HIPS AND FLPPERS.	SI	P9	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2018	3	27	HARASSMENT	MONTEREY	CA	NSI	ANIMAL BEING HARASSED BY PEOPLE ON BUSY BEACH THROWING SAND AT SEAL. IN GOOD BODY CONDITION (MILDLY UNDERWEIGHT BUT NOT UNUSUAL) AND EXHIBITING REGULAR BEHAVIOR BUT NOT AVOIDING HARASSMENT. RELOCATED TO POINT LOBOS STATE RESERVE (WHALERS COVE), CARMEL-BY-THE-SEA, MONTEREY COUNTY, CA, USA ON MARCH 29 2018.	NSI	P9	0	N	N

Appendix 4. Records of human-related injury and mortality, 2014-2018.

Species	Stock or Area	Year	Month	Day	Interaction Type	County or Locale	State	Initial Injury Assessment	Comments	Final Injury Assessment	Serious Injury Criteria Code	Serious Injury Proration Value	Count Against LOF	Count Against PBR
NORTHERN ELEPHANT SEAL	CALIFORNIA	2018	4	4	OIL / TAR	MONTEREY	CA	NSI	MILDLY UNDERWEIGHT SEAL WITH TAR PATCHES PRESENT ON NECK AND SHOULDERS, GUMMY EYES. PEOPLE GETTING CLOSE TO TAKE PICTURES AND TOUCHING ANIMAL, PEOPLE TOSSING SAND AT IT.	NSI	P9	0	N	N
NORTHERN ELEPHANT SEAL	CALIFORNIA	2018	4	21	OIL / TAR	SANTA CRUZ	CA	SI	MALNOURISHED ANIMAL WITH TAR/OIL PATCHES, SMALL PUNCTURE WOUND ON RIGHT CHEEK.	SI	P9	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2018	4	28	HOOK & LINE FISHERY CA HALIBUT AND WHITE SEABASS SET GILLNET FISHERY	LOS ANGELES	CA	SI	MALNOURISHED ANIMAL DESCRIBED AS HAVING INTERACTED WITH HOOK AND LINE FISHERY. NO DETAILS ON INJURY TYPE OR SEVERITY, OR OUTCOME. ASSUMING HOOKS WERE IN OR NEAR MOUTH DUE TO CONDITION OF ANIMAL.	SI	PSA	1	Y	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2018	5	2		OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2018	5	26	OIL / TAR	GRAYS HARBOR	WA	SI	UNDERWEIGHT ANIMAL WITH TAR/OIL ON BODY.	SI	P9	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2018	5	30	HOOK & LINE FISHERY	SAN DIEGO	CA	NSI	ANIMAL IN GOOD BODY CONDITION WITH ONE FISHING HOOK IN LEFT REAR FLIPPER, AND ANOTHER HOOK ABOVE LEFT REAR FLIPPER. BOTH HOOKS REMOVED AND ANIMAL WAS RELEASED ON SITE.	NSI	PSC	0	N	N
NORTHERN ELEPHANT SEAL	CALIFORNIA	2018	6	4	UNIDENTIFIED HUMAN INTERACTION	GRAYS HARBOR	WA	SI	HIND FLIPPER HAD BLOOD AND PUNCTURE WOUNDS, LACERATION ON RIGHT SIDE. ANIMAL WAS LETHARGIC, EMACIATED AND HAD MODERATE, YELLOWISH MUCOPURULENT DISCHARGE FROM THE EYES. ANIMAL WAS TAGGED AS A WEANED PUP ON 2/23/18 ON DRAKES BEACH IN POINT REYES NATIONAL SEASHORE. IT WAS RECORDED THAT THE ANIMAL WAS FEMALE, TAG NUMBER 8834. ON 6/5 SEAL WAS EUTHANIZED DUE IT BEING UNRESPONSIVE ON THE BEACH. LACERATION ON RIGHT SIDE, SMALL LACERATION ON RIGHT FLIPPER.	DEAD	NA	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2018	9	4	MARINE DEBRIS	MENDOCINO	CA	DEAD	MARINE DEBRIS ENTANGLEMENT. WRAPPED UP IN ROPE WITH BARNACLES ON IT.	DEAD	NA	1	N	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2018	10	14	HARASSMENT	MARIN	CA	NSI	PATIENT FOUND LYING IN THE MIDDLE OF A GRAVEL ROAD WITH TOWELS ON IT THAT SOMEONE PUT OVER. PATIENT WAS ALSO MOLTING. NO OTHER DETAILS ON ANIMAL'S CONDITION.	NSI	P9	0	N	N
NORTHERN ELEPHANT SEAL	CALIFORNIA	2018	10	20	BERING SEA AND ALEUTIAN ISLANDS ATKA MACKEREL TRAWL	OFFSHORE	AK	SI	OBSERVER PROGRAM. ANIMAL RETURNED TO WATER INJURED. ALSO REPORTED VIA MMAP PROGRAM WITH CONDITION REPORTED AS "LISTLESSNESS / INABILITY TO DEFEND".	SI	P4	1	Y	Y
NORTHERN ELEPHANT SEAL	CALIFORNIA	2018	10	29	MARINE DEBRIS	LOS ANGELES	CA	SI	A JUVENILE NORTHERN ELEPHANT SEAL WAS HAULED OUT AT SAN CLEMENTE ISLAND. THE ANIMAL HAD A WIDE (10-15 CM) RUBBER BAND CONSTRICTING ITS NECK. THE ANIMAL'S BODY CONDITION WAS GOOD, BUT THE RUBBER BAND IS MADE OF THICK MATERIAL AND WILL CONTINUE TO CONSTRICT THE ANIMAL AS IT GROWS.	SI	P8A	1	N	Y
NORTHERN FUR SEAL	EASTERN PACIFIC-CALIFORNIA	2014	5	12	UNIDENTIFIED FISHERY INTERACTION	LINCOLN	OR	DEAD	TWO FUR SEALS WERE FOUND DEAD AND ENTANGLED IN A MASSIVE WAD OF BLUE GREEN TRAWL NET. THIS IS FUR SEAL ONE OF TWO.	DEAD	NA	1	Y	Y
NORTHERN FUR SEAL	EASTERN PACIFIC-CALIFORNIA	2014	5	12	UNIDENTIFIED FISHERY INTERACTION	LINCOLN	OR	DEAD	TWO FUR SEALS WERE FOUND DEAD AND ENTANGLED IN A MASSIVE WAD OF BLUE GREEN TRAWL NET. THIS IS FUR SEAL ONE OF TWO.	DEAD	NA	1	Y	Y
NORTHERN FUR SEAL	EASTERN PACIFIC-CALIFORNIA	2014	5	21	UNIDENTIFIED FISHERY INTERACTION	CLATSOP	OR	DEAD	A FUR SEAL WAS FOUND DEAD AND A NECROPSY WAS CONDUCTED. A NET WAS RECOVERED, BUT NO INFORMATION ON THE CONFIGURATION OF THE NET WAS REPORTED. THE REPORTING PARTY INDICATED THE MORTALITY WAS FISHERIES RELATED.	DEAD	NA	1	Y	Y
NORTHERN FUR SEAL	EASTERN PACIFIC-CALIFORNIA	2014	12	3	OIL / TAR	MONTEREY	CA	SI	EMACIATED, LETHARGIC, NON-RESPONSIVE TO HUMAN CONTACT, AND ALERT. TAR SPOT ON LEFT SIDE. MATERNAL SEPARATION, PNEUMONIA, OIL.	SI	P1	1	N	Y
NORTHERN FUR SEAL	EASTERN PACIFIC-CALIFORNIA	2016	10	23	AT-SEA HAKE PELAGIC TRAWL	NA	OR	DEAD	A NORTHERN FUR SEAL WAS CAUGHT AND KILLED IN TRAWL GEAR.	DEAD	NA	1	Y	Y
NORTHERN FUR SEAL	EASTERN PACIFIC-CALIFORNIA	2016	12	3	DOG ATTACK	SAN FRANCISCO	CA	DEAD	PUP NECROPSIED, CAUSE OF DEATH DETERMINED TO BE CANINE ATTACK.	DEAD	NA	1	N	Y

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NORTHERN FUR SEAL	EASTERN PACIFIC-CALIFORNIA	2017	3	4	TRAWL FISHERY (UNKNOWN)	CLATSOP	OR	DEAD	CARCASS WITH SECTION OF BOTTOM TRAWL NET (CONFIRMED) AROUND THE FUR SEAL'S NECK (3-STRAND POLYPROPYLENE).	DEAD	NA	1	Y	Y
NORTHERN FUR SEAL	EASTERN PACIFIC-CALIFORNIA	2017	3	8	TRAWL FISHERY (UNKNOWN)	LINCOLN	OR	DEAD	ONE OF TWO JUVENILES FOUND ENTANGLED IN GREEN TRAWL NET MATERIAL.	DEAD	NA	1	Y	Y
NORTHERN FUR SEAL	EASTERN PACIFIC-CALIFORNIA	2017	3	8	TRAWL FISHERY (UNKNOWN)	LINCOLN	OR	DEAD	ONE OF TWO JUVENILES FOUND ENTANGLED IN GREEN TRAWL NET MATERIAL.	DEAD	NA	1	Y	Y
NORTHERN FUR SEAL	CALIFORNIA	2017	8	18	LIMITED ENTRY SABLEFISH HOOK AND LINE	OFFSHORE	CA	NSI	SEAL BOMB USED AS DETERRENT TO ANIMAL FEEDING ON CATCH. ALIVE, NO VISIBLE SIGN OF INJURY. OBSERVER PROGRAM.	NSI	P9	0	N	N
NORTHERN FUR SEAL	EASTERN PACIFIC-CALIFORNIA	2018	1	22	MARINE DEBRIS	DOUGLAS	OR	SI	PLASTIC STRING, CORD OR STRAP WRAPPED AROUND NECK, CUTTING INTO INTEGUMENT. THIS YOUNG MALE NORTHERN FUR SEAL WAS TRANSFERRED BRIEFLY TO OREGON COAST AQUARIUM ON 1/22/18. IT WAS DISENTANGLED, HELD OVERNIGHT, AND RELEASED THE	NSI	P7B	0	N	N
NORTHERN FUR SEAL	CALIFORNIA	2018	10	27	OIL / TAR	SAN LUIS OBISPO	CA	SI	PATIENT FOUND LETHARGIC AND EMACIATED COVERED IN OIL/TAR, MATTED FUR, AND PEOPLE HARASSING SEAL.	SI	P9	1	N	Y
NORTHERN RIGHT WHALE DOLPHIN	CA-OR-WA	2014	1	3	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
NORTHERN RIGHT WHALE DOLPHIN	CA-OR-WA	2016	4	10	UNIDENTIFIED FISHERY INTERACTION	UNKNOWN	OR	DEAD	EXTENSIVE FOOTROPE ROLLER MARKS ON ANIMAL; FLUKE EDGES AND PART OF PECTORALS CUT OFF; BROKEN RIBS; VARIOUS HEMORRHAGIC AREAS; COPIOUS AMOUNT OF CLEAR PINK FLUID IN BRAIN CASE; THE DOLPHIN HAD EXCELLENT BODY CONDITION	DEAD	NA	1	Y	Y
NORTHERN RIGHT WHALE DOLPHIN	CA-OR-WA	2016	9	30	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
NORTHERN RIGHT WHALE DOLPHIN	CA-OR-WA	2017	1	10	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
NORTHERN RIGHT WHALE DOLPHIN	CA-OR-WA	2017	11	12	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
PACIFIC WHITE-SIDED DOLPHIN	CA-OR-WA	2014	3	26	VESSEL STRIKE	SAN JUAN	WA	DEAD	THIS ANIMAL HAD A LARGE LACERATION THAT APPEARED TO HAVE BEEN CAUSED BY A PROPELLER STRIKE. A NECROPSY ON THE ANIMAL REVEALED INTERNAL BRUISING, SEVERAL FRACTURED VERTEBRAE, AND A SKULL FRACTURE ABOVE THE LEFT EYE.	DEAD	NA	1	N	Y
PACIFIC WHITE-SIDED DOLPHIN	CA-OR-WA	2014	5	14	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	KILLED IN GEAR	DEAD	NA	1	Y	Y
PACIFIC WHITE-SIDED DOLPHIN	CA-OR-WA	2014	6	1	SCIENTIFIC RESEARCH	OFFSHORE	CA	DEAD	OFF POINT SUR, CALIFORNIA, A PACIFIC WHITE-SIDED DOLPHIN WAS CAUGHT IN A COBB MIDWATER TRAWL. DOLPHIN WAS DEAD WITHOUT ANY VISIBLE INJURIES.	DEAD	NA	1	N	Y
PACIFIC WHITE-SIDED DOLPHIN	CA-OR-WA	2014	6	21	SCIENTIFIC RESEARCH	OFFSHORE	WA	DEAD	ONE OF SIX PACIFIC WHITE SIDED DOLPHINS CAUGHT IN A SURFACE TRAWL	DEAD	NA	1	N	Y
PACIFIC WHITE-SIDED DOLPHIN	CA-OR-WA	2014	6	21	SCIENTIFIC RESEARCH	OFFSHORE	WA	DEAD	ONE OF SIX PACIFIC WHITE SIDED DOLPHINS CAUGHT IN A SURFACE TRAWL	DEAD	NA	1	N	Y
PACIFIC WHITE-SIDED DOLPHIN	CA-OR-WA	2014	6	21	SCIENTIFIC RESEARCH	OFFSHORE	WA	DEAD	ONE OF SIX PACIFIC WHITE SIDED DOLPHINS CAUGHT IN A SURFACE TRAWL	DEAD	NA	1	N	Y
PACIFIC WHITE-SIDED DOLPHIN	CA-OR-WA	2014	6	21	SCIENTIFIC RESEARCH	OFFSHORE	WA	DEAD	ONE OF SIX PACIFIC WHITE SIDED DOLPHINS CAUGHT IN A SURFACE TRAWL	DEAD	NA	1	N	Y
PACIFIC WHITE-SIDED DOLPHIN	CA-OR-WA	2014	6	21	SCIENTIFIC RESEARCH	OFFSHORE	WA	DEAD	ONE OF SIX PACIFIC WHITE SIDED DOLPHINS CAUGHT IN A SURFACE TRAWL	DEAD	NA	1	N	Y
PACIFIC WHITE-SIDED DOLPHIN	CA-OR-WA	2015	8	26	SCIENTIFIC RESEARCH	OFFSHORE	WA	DEAD	TAKE OCCURRED DURING THE SECOND SURFACE TRAWL OF THE NIGHT AT APPROX. 200M BOTTOM DEPTH. WEATHER WAS VERY CALM AND THE MOON WAS BRIGHT (1/3 PHASE). TOW WAS 30 MINUTES AND DOLPHIN WAS FIRST NOTED UPON RETRIEVAL OF THE NET. THE DOLPHIN WAS CAUGHT IN THE BOTTOM OF THE GRID ON THE MARINE MAMMAL EXCLUDER DEVICE BY ITS LEFT PECTORAL FLIPPER AND WAS DEAD UPON PULLING THE	DEAD	NA	1	N	Y
PACIFIC WHITE-SIDED DOLPHIN	CA-OR-WA	2015	8	30	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	1 OF 2 ANIMALS KILLED IN GEAR.	DEAD	NA	1	Y	Y

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PACIFIC WHITE-SIDED DOLPHIN	CA-OR-WA	2015	8	30	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	2 OF 2 ANIMALS KILLED IN GEAR.	DEAD	NA	1	Y	Y
PACIFIC WHITE-SIDED DOLPHIN	CA-OR-WA	2016	5	15	SCIENTIFIC RESEARCH	OFFSHORE	CA	DEAD	KILLED IN A MIDWATER TRAWL.	DEAD	NA	1	N	Y
PACIFIC WHITE-SIDED DOLPHIN	CA-OR-WA	2016	7	18	SCIENTIFIC RESEARCH	OFFSHORE	WA	DEAD	ONE OF SEVEN PACIFIC WHITE SIDED DOLPHINS CAUGHT IN A SURFACE TRAWL	DEAD	NA	1	N	Y
PACIFIC WHITE-SIDED DOLPHIN	CA-OR-WA	2016	7	18	SCIENTIFIC RESEARCH	OFFSHORE	WA	DEAD	ONE OF SEVEN PACIFIC WHITE SIDED DOLPHINS CAUGHT IN A SURFACE TRAWL	DEAD	NA	1	N	Y
PACIFIC WHITE-SIDED DOLPHIN	CA-OR-WA	2016	7	18	SCIENTIFIC RESEARCH	OFFSHORE	WA	DEAD	ONE OF SEVEN PACIFIC WHITE SIDED DOLPHINS CAUGHT IN A SURFACE TRAWL	DEAD	NA	1	N	Y
PACIFIC WHITE-SIDED DOLPHIN	CA-OR-WA	2016	7	18	SCIENTIFIC RESEARCH	OFFSHORE	WA	DEAD	ONE OF SEVEN PACIFIC WHITE SIDED DOLPHINS CAUGHT IN A SURFACE TRAWL	DEAD	NA	1	N	Y
PACIFIC WHITE-SIDED DOLPHIN	CA-OR-WA	2016	7	18	SCIENTIFIC RESEARCH	OFFSHORE	WA	DEAD	ONE OF SEVEN PACIFIC WHITE SIDED DOLPHINS CAUGHT IN A SURFACE TRAWL	DEAD	NA	1	N	Y
PACIFIC WHITE-SIDED DOLPHIN	CA-OR-WA	2016	7	18	SCIENTIFIC RESEARCH	OFFSHORE	WA	DEAD	ONE OF SEVEN PACIFIC WHITE SIDED DOLPHINS CAUGHT IN A SURFACE TRAWL	DEAD	NA	1	N	Y
PACIFIC WHITE-SIDED DOLPHIN	CA-OR-WA	2016	7	18	SCIENTIFIC RESEARCH	OFFSHORE	WA	DEAD	ONE OF SEVEN PACIFIC WHITE SIDED DOLPHINS CAUGHT IN A SURFACE TRAWL	DEAD	NA	1	N	Y
PACIFIC WHITE-SIDED DOLPHIN	CA-OR-WA	2016	7	18	SCIENTIFIC RESEARCH	OFFSHORE	WA	DEAD	ONE OF SEVEN PACIFIC WHITE SIDED DOLPHINS CAUGHT IN A SURFACE TRAWL	DEAD	NA	1	N	Y
PACIFIC WHITE-SIDED DOLPHIN	CA-OR-WA	2016	7	18	SCIENTIFIC RESEARCH	OFFSHORE	WA	DEAD	ONE OF SEVEN PACIFIC WHITE SIDED DOLPHINS CAUGHT IN A SURFACE TRAWL	DEAD	NA	1	N	Y
PACIFIC WHITE-SIDED DOLPHIN	CA-OR-WA	2016	7	18	SCIENTIFIC RESEARCH	OFFSHORE	WA	DEAD	IN ADDITION TO THE 7 DEAD DOLPHINS RETRIEVED DEAD FROM THIS TRAWL ON 7/18/2016, AN 8TH ANIMAL WAS SEEN VIA VIDEO CAMERA ATTACHED TO NET ESCAPING ALIVE THROUGH THE MARINE MAMMAL EXCLUDER DEVICE. CONDITION OF ANIMAL UNKNOWN UPON ESCAPE AND BASED ON DEAD CONDITION OF 7 ASSOCIATED ANIMALS THAT WERE TRAPPED FOR A SUFFICIENT DURATION TO RESULT IN DEATH, THIS IS BEING ASSIGNED AS A SERIOUS INJURY DUE TO UNKNOWN EFFECTS OF CAPTURE MYOPATHY.	SI	S7B	1	N	Y
PACIFIC WHITE-SIDED DOLPHIN	CA-OR-WA	2017	5	12	GILLNET FISHERY	CLATSOP	OR	DEAD	DORSAL FIN AND FLIPPER TIPS CUT OFF. HEMORRHAGING AND HEAVY BRUISING.	DEAD	NA	1	Y	Y
PACIFIC WHITE-SIDED DOLPHIN	CA-OR-WA	2017	5	30	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	WA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
PACIFIC WHITE-SIDED DOLPHIN	CA-OR-WA	2017	NA	NA	CATCH SHARES BOTTOM TRAWL	OFFSHORE	CA	DEAD	ANIMAL KILLED IN GEAR.	DEAD	NA	1	Y	Y
PACIFIC WHITE-SIDED DOLPHIN	CA-OR-WA	2018	6	14	SCIENTIFIC RESEARCH	OFFSHORE	CA	DEAD	MALE 175 CM CAUGHT IN TRAWL	DEAD	NA	1	N	Y
PACIFIC WHITE-SIDED DOLPHIN	CA-OR-WA	2018	6	14	SCIENTIFIC RESEARCH	OFFSHORE	CA	DEAD	CAUGHT AND KILLED IN TRAWL GEAR.	DEAD	NA	1	N	Y
PACIFIC WHITE-SIDED DOLPHIN	CA-OR-WA	2018	7	24	SCIENTIFIC RESEARCH	OFFSHORE	OR	DEAD	CAUGHT AND KILLED IN TRAWL GEAR.	DEAD	NA	1	N	Y
PACIFIC WHITE-SIDED DOLPHIN	CA-OR-WA	2018	7	24	SCIENTIFIC RESEARCH	OFFSHORE	OR	DEAD	CAUGHT AND KILLED IN TRAWL GEAR.	DEAD	NA	1	N	Y
PACIFIC WHITE-SIDED DOLPHIN	CA-OR-WA	2018	8	28	SCIENTIFIC RESEARCH	OFFSHORE	CA	DEAD	CAUGHT AND KILLED IN TRAWL GEAR.	DEAD	NA	1	N	Y
RISSO'S DOLPHIN	CA-OR-WA	2016	1	21	GILLNET FISHERY	SAN DIEGO	CA	DEAD	FISHERY INTERACTION: DORSAL FIN HAS BEEN CLEANLY CUT OFF, FLUKES AT THE PEDUNCLE HAVE BEEN CLEANLY CUT OFF EXPOSING BONE (MINIMUM TOTAL BODY LENGTH AT THIS POINT = 267.9 CM). ANIMAL WAS IN ADVANCED DECOMPOSITION AND HAD BEEN SCAVENGED, OTHER POSSIBLE MARKINGS ARE CBD. SEX ID PER GENETICS. MUTILATION / CUTTING OFF OF BODY PARTS CONSISTENT WITH HOW ANIMALS ARE REMOVED FROM OBSERVER PROGRAM, ALSO RECORDED AS A SELF-REPORTED CASE BY VESSEL CAPTAIN.	DEAD	NA	1	Y	Y
SHORT-FINNED PILOT WHALE	CA-OR-WA	2014	1	5	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM, ALSO RECORDED AS A SELF-REPORTED CASE BY VESSEL CAPTAIN.	DEAD	NA	1	Y	Y
SHORT-FINNED PILOT WHALE	CA-OR-WA	2014	1	19	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
STRIPED DOLPHIN	CA-OR-WA	2015	11	6	UNIDENTIFIED FISHERY INTERACTION	CLATSOP	OR	DEAD	FRESH DEAD ANIMAL WITH RIGHT FLIPPER AND RIGHT FLUKE SEVERED; VARIOUS GASHES, CUTS (SOME PARALLEL), AND ABRASIONS ON HEAD AND BODY; BLOWHOLE REDDENED AND SWOLLEN; HEMORRHAGE ALL ALONG MANDIBLES; SEVERE INFESTATION OF EMBEDDED AND ENCYSTED PARASITES IN COLON.	DEAD	NA	1	Y	Y

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STRIPED DOLPHIN	CA-OR-WA	2016	1	30	GILLNET FISHERY	CLATSOP	OR	DEAD	GAFF INJURY ON PEDUNCLE; ROSTRUM BROKEN; "TEAR" IN TISSUE AT MELON/ROSTRUM JUNCTION; LUNGS FILLED WITH SAND, HIGHLY INFLATED, AND VERY FRIABLE; A SIGNIFICANT AMOUNT OF BLOODY FLUID IN THORACIC CAVITY; CREPITUS AROUND KIDNEYS; FAIRLY HEAVY PARASITE LOAD.	DEAD	NA	1	Y	Y
STRIPED DOLPHIN	CA-OR-WA	2016	1	30	GILLNET FISHERY	CLATSOP	OR	SI	LUNGS HIGHLY INFLATED AND HEMORRHAGED; INDENTATIONS WITH 3-CM SPACING DORSALLY; A SIGNIFICANT AMOUNT OF BLOODY FLUID IN THORACIC AND ABDOMINAL CAVITIES.	DEAD	NA	1	Y	Y
STRIPED DOLPHIN	CA-OR-WA	2016	2	1	GILLNET FISHERY	CLATSOP	OR	DEAD	GAFF INJURY AT PEDUNCLE; BLOWHOLE BLOODY; DARK RED FLUID IN THORACIC CAVITY; A SIGNIFICANT AMOUNT OF CEREBRAL SPINAL FLUID IN BRAINCASE; HEAVY LOAD OF LUNG PARASITES; CREPITUS ENCASED THE KIDNEYS; ADRENALS ABNORMAL.	DEAD	NA	1	Y	Y
STRIPED DOLPHIN	CA-OR-WA	2017	2	25	UNIDENTIFIED FISHERY INTERACTION	TILLAMOOK	OR	DEAD	MASSIVE BRUISING AND HEMORRHAGE WITH LINE MARKS; RIGHT LOWER JAW BROKEN; RIB MARKS ON RIGHT LUNG; THROAT CUT FROM FLIPPER TO FLIPPER.	DEAD	NA	1	Y	Y
UNIDENTIFIED DOLPHIN	NA	2016	10	1	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	SI	CAUGHT IN FORENET, THE CREW REMOVED AND RELEASED OVER THE STERN. SERIOUS INJURY BECAUSE ANIMAL WAS REMOVED FROM WATER AND WAS ON	SI	S4	1	Y	Y
UNIDENTIFIED DOLPHIN	NA	2017	8	2	CA SPOT PRAWN TRAP FISHERY	VENTURA	CA	DEAD	TAIL WRAPPED IN LINE OF A SPOT PRAWN TRAP. NO NECROPSY, NO FURTHER DETAILS.	DEAD	NA	1	Y	Y
UNIDENTIFIED DOLPHIN	NA	2018	10	22	CA SWORDFISH DRIFT GILLNET FISHERY	OFFSHORE	CA	DEAD	OBSERVER PROGRAM	DEAD	NA	1	Y	Y
UNIDENTIFIED OTARIID	NA	2014	10	15	HAWAII LONGLINE SHALLOW SET FISHERY	OFFSHORE	CA	SI	UNIDENTIFIED SEA LION HOOKED IN LIP IN LOWER MOUTH. LEADER WAS CUT AND HOOK AND SHORT SECTION OF LINE REMAINED ON ANIMAL.	SI	PSB	1	Y	Y
UNIDENTIFIED OTARIID	NA	2015	7	18	SHOOTING	CLATSOP	OR	DEAD	SUSPECTED SHOOTING; MUCH OF THE CARCASS WAS FLURLESS; NUMEROUS SUSPICIOUS HOLES ALONG LEFT SIDE OF BODY WITH POSSIBLE ASSOCIATED HEMORRHAGE; THE ANIMAL HAD GOOD TO EXCELLENT	DEAD	NA	1	N	Y
UNIDENTIFIED OTARIID	NA	2015	12	4	HAWAII LONGLINE SHALLOW SET FISHERY	OFFSHORE	CA	SI	HOOKED IN LIP (LOWER RIGHT, ALONG WITH A FISH INITIALLY) BY 18/0 OFFSET FLAT CIRCLE HOOK (4.8MM DIAMETER). ANIMAL WAS STRUGGLING AS IT WAS PULLED AND HELD BEHIND THE VESSEL. LINE CUT: HOOK AND 2M MONOFILAMENT LEADER LEFT ON ANIMAL.	SI	P5B, P6	1	Y	Y
UNIDENTIFIED OTARIID	NA	2015	12	7	HAWAII LONGLINE SHALLOW SET FISHERY	OFFSHORE	CA	SI	HOOKED IN LEFT PECTORAL FLIPPER BY 18/0 OFFSET FLAT CIRCLE HOOK (4.8MM DIAMETER). ANIMAL WAS STRUGGLING AS IT WAS PULLED TOWARD THE VESSEL. LINE CUT: HOOK, 2M MONOFILAMENT LEADER, AND LIGHT STICK LEFT ON ANIMAL.	SI	P6	1	Y	Y
UNIDENTIFIED PINNIPED	NA	2015	9	21	LIMITED ENTRY SABLEFISH HOOK AND LINE	OFFSHORE	OR	DEAD	KILLED IN GEAR. WEATHER TOO ROUGH TO DETERMINE SPECIES. OBSERVER PROGRAM.	DEAD	NA	1	Y	Y
UNIDENTIFIED PINNIPED	NA	2015	12	2	HAWAII LONGLINE SHALLOW SET FISHERY	OFFSHORE	CA	SI	HOOKED IN MOUTH AREA (PART NOT SPECIFIED, ALTHOUGH HOOK ATTACHMENT SEEN, SO INGESTION UNLIKELY) BY 18/0 OFFSET FLAT CIRCLE HOOK (4.8MM DIAMETER). THE ANIMAL WAS BEING PULLED BY THE MOVEMENT OF THE VESSEL WHEN THE LINE BROKE WHERE HOOK ATTACHED: HOOK LEFT ON ANIMAL.	SI	P5A	1	Y	Y
UNIDENTIFIED PINNIPED	NA	2015	12	5	HAWAII LONGLINE SHALLOW SET FISHERY	OFFSHORE	CA	SI	HOOKED IN CHEEK (LEFT) BY 18/0 OFFSET FLAT CIRCLE HOOK (4.8MM DIAMETER). ANIMAL WAS STRUGGLING AS IT WAS PULLED AND HELD BEHIND THE VESSEL. LINE CUT: HOOK AND 1M MONOFILAMENT LEADER LEFT ON	SI	P6	1	Y	Y
UNIDENTIFIED PINNIPED	NA	2015	12	6	HAWAII LONGLINE SHALLOW SET FISHERY	OFFSHORE	CA	SI	HOOKED IN UNKNOWN BODY LOCATION (POSSIBLY THE HEAD OR MOUTH) BY 18/0 OFFSET FLAT CIRCLE HOOK (4.8MM DIAMETER). AS THE ANIMAL WAS BEING BROUGHT CLOSER TO THE VESSEL, THE BRANCHLINE SLID OFF THE MAINLINE, WHICH WAS BROKEN: HOOK, 5.6 MONOFILAMENT LEADER, 45G AND 75G WEIGHT, AND 12M BRANCHLINE LEFT ON ANIMAL.	SI	P6	1	Y	Y
UNIDENTIFIED PINNIPED	NA	2016	11	8	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	NSI	ANIMAL BRIEFLY ENTANGLED AND RELEASED WITHOUT APPARENT INJURY.	NSI	P4	0	N	N

Appendix 4. Records of human-related injury and mortality, 2014-2018.

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UNIDENTIFIED PINNIPED	NA	2016	11	8	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	NSI	ANIMAL BRIEFLY ENTANGLED AND RELEASED WITHOUT APPARENT INJURY.	NSI	P4	0	N	N
UNIDENTIFIED PINNIPED	NA	2016	11	8	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	NSI	ANIMAL BRIEFLY ENTANGLED AND RELEASED WITHOUT APPARENT INJURY.	NSI	P4	0	N	N
UNIDENTIFIED PINNIPED	NA	2016	11	12	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	NSI	ANIMAL BRIEFLY ENTANGLED AND RELEASED WITHOUT APPARENT INJURY.	NSI	P4	0	N	N
UNIDENTIFIED PINNIPED	NA	2016	11	12	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	NSI	ANIMAL BRIEFLY ENTANGLED AND RELEASED WITHOUT APPARENT INJURY.	NSI	P4	0	N	N
UNIDENTIFIED PINNIPED	NA	2016	11	12	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	NSI	ANIMAL BRIEFLY ENTANGLED AND RELEASED WITHOUT APPARENT INJURY.	NSI	P4	0	N	N
UNIDENTIFIED PINNIPED	NA	2016	11	13	CATCHER PROCESSOR MIDWATER TRAWL	OFFSHORE	OR	NSI	ANIMAL BRIEFLY ENTANGLED AND RELEASED WITHOUT APPARENT INJURY.	NSI	P4	0	N	N
UNIDENTIFIED WHALE	NA	2014	3	4	UNIDENTIFIED POT/TRAP FISHERY ENTANGLEMENT	TILLAMOOK	OR	SI (PRORATE)	REPORTED BY COMMERCIAL FISHERMAN, A 25' "HUMPBACK" WHALE WITH "KING CRAB" RED POLY BUOY WRAPPED AROUND TAIL AND TRAILING BUOY ATTACHED TO HEAD; FISHERMAN TRIED TO CUT LINE WITH KNIFE ON END OF POLE BUT THE WHALE WAS TOO ACTIVE; WAS SWIMMING AND DIVING, HEADING IN SOUTHWARD DIRECTION, SEA STATE DETERIORATING WITH APPROACHING STORM SYSTEM. SPECIES ID NOT CONFIRMED. GEAR CONFIGURATION AND AMOUNT	SI (PRORATE)	L10	0.75	Y	Y
UNIDENTIFIED WHALE	NA	2014	4	16	UNIDENTIFIED FISHERY INTERACTION	CURRY	OR	SI (PRORATE)	REPORTED ENTANGLED WHALE TRAILING GEAR JUST OUTSIDE BROOKINGS HARBOR. GEAR CONFIGURATION AND AMOUNT UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
UNIDENTIFIED WHALE	NA	2014	9	26	UNIDENTIFIED FISHERY INTERACTION	SANTA CRUZ	CA	SI (PRORATE)	2 "MOSSY" BUOYS, 1 WHITE, 1 UNKNOWN COLOR. GEAR AMOUNT AND CONFIGURATION UNKNOWN. PHOTOS OF LINE RUNNING FROM MOUTH AREA, NO BUOYS OR MARKINGS, ANIMAL DEAD AND CARCASS IN POOR OVERALL CONDITION; LIKELY A GRAY WHALE GIVEN SIZE/TIMING/LOCATION APPARENT MORPHOLOGY, BUT RECORDED AS UNIDENTIFIED. GEAR AMOUNT AND CONFIGURATION UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
UNIDENTIFIED WHALE	NA	2015	3	1	UNIDENTIFIED FISHERY INTERACTION	VENTURA	CA	DEAD		DEAD	NA	1	Y	Y
UNIDENTIFIED WHALE	NA	2015	5	3	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI (PRORATE)	WHALE REPORTED WITH 'TAIL WRAP' AND TWO BUOYS; WHITE AND YELLOW/ORANGE. GEAR AMOUNT AND CONFIGURATION UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
UNIDENTIFIED WHALE	NA	2015	5	9	UNIDENTIFIED FISHERY INTERACTION	MENDOCINO	CA	SI (PRORATE)	WHALE TOWING THREE ORANGE FOAM BUOYS AND ROPE. GEAR AMOUNT AND CONFIGURATION UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
UNIDENTIFIED WHALE	NA	2015	5	28	GILLNET FISHERY	SANTA BARBARA	CA	SI (PRORATE)	WHALE REPORTED BY SAILING VESSEL AS ENTANGLED IN GILLNET / WEBBING NEAR TAIL, WITH 'LOTS OF BUOYS'. TWO BUOYS WERE ORANGE-COLORED. WHALE BEHAVIOR REPORTED AS THRASHING HARD. NO PHOTOS. THOUGHT TO BE EITHER HUMPBACK OR GRAY WHALE.	SI (PRORATE)	L10	0.75	Y	Y
UNIDENTIFIED WHALE	NA	2015	8	25	UNIDENTIFIED FISHERY INTERACTION	LOS ANGELES	CA	SI (PRORATE)	WHALE PULLING TWO BUOYS, SEEMED LIKE LINE ON TAIL; CONFIRMED FROM DIRECT CONVERSATION AND DETAILS PROVIDED BY DIVER. NO PHOTOS.	SI (PRORATE)	L10	0.75	Y	Y
UNIDENTIFIED WHALE	NA	2015	8	27	UNIDENTIFIED FISHERY INTERACTION	SANTA BARBARA	CA	SI (PRORATE)	TWO SMALL TORPEDO BUOYS TRAILED 40 FT BEHIND WHALE, BUOY COLORS ARE ORANGE, YELLOW, AND RED, LINE DESCRIBE AS BLUE SPECTRA 1/8 OR 1/4 INCH, RESIGHTED LATER WITH LINE THROUGH MOUTH WITH FULL WRAP AROUND BODY; WHALE ROLLING AND BREACHING. GEAR CONFIGURATION UNKNOWN. NO PHOTOS.	SI (PRORATE)	L10	0.75	Y	Y
UNIDENTIFIED WHALE	NA	2015	11	7	UNIDENTIFIED FISHERY INTERACTION	MARIN	CA	SI (PRORATE)	WHALE TRAILING LINE AND A BUOY CLOSE TO BODY SEEN DURING CA DEP. OF FISH AND WILDLIFE OVERFLIGHT. GEAR AMOUNT AND CONFIGURATION UNKNOWN. PHOTOS REVIEWED BY J. CARRETTA.	SI (PRORATE)	L10	0.75	Y	Y
UNIDENTIFIED WHALE	NA	2015	11	21	UNIDENTIFIED FISHERY INTERACTION	SANTA BARBARA	CA	SI (PRORATE)	MEMBER OF THE PUBLIC REPORTED SEEING A WHALE WITH LINE AND A BUOY WRAPPED AROUND BODY. NO PHOTOS. GEAR AMOUNT AND CONFIGURATION UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
UNIDENTIFIED WHALE	NA	2015	11	27	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI (PRORATE)	RED/ORANGE BULLET SHAPED BUOY TRAILING BEHIND THE WHALE AT THE SURFACE. REPORT THAT WHALE STUCK ON CRAB NET. NO PHOTOS. GEAR CONFIGURATION AND AMOUNT UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y

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UNIDENTIFIED WHALE	NA	2016	4	28	UNIDENTIFIED FISHERY INTERACTION	SAN FRANCISCO	CA	SI (PRORATE)	WHALE SWIMMING NORTH WITH 2 BUOYS TRAILING, GEAR AMOUNT AND CONFIGURATION UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
UNIDENTIFIED WHALE	NA	2016	5	13	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI (PRORATE)	WHALE INITIALLY SEEN DRAGGING A BLUE BUOY OFF JULIA PFEIFFER BURNS STATE PARK, TRAVELING NORTH WITH OTHER WHALES. DESCRIBED AS BIG BLUE PLASTIC BUOY STUCK TO WHALE'S SIDE. AMOUNT OF GEAR AND CONFIGURATION UNKNOWN. PHOTOS INCONCLUSIVE FOR SPECIES ID. PROBABLE SUBSEQUENT RESIGHTS IN MONTEREY BAY THE NEXT DAY, UNIDENTIFIED WHALE DESCRIBED AS DRAGGING BLUE OBJECT.	SI (PRORATE)	L10	0.75	Y	Y
UNIDENTIFIED WHALE	NA	2016	5	15	UNIDENTIFIED FISHERY INTERACTION	SAN MATEO	CA	SI (PRORATE)	NORTHBOUND WHALE TRAILING TWO CRAB BUOYS ABOUT 50-70 FT. BEHIND. 1 BUOY ORANGE AND THE OTHER SMALLER AND WHITE ABOUT 5 FEET FROM ORANGE BUOY. GEAR AMOUNT AND CONFIGURATION UNKNOWN VESSEL REPORTED ENTANGLEMENT IN 'CRAB GEAR' TO USCG. GEAR AMOUNT AND CONFIGURATION UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
UNIDENTIFIED WHALE	NA	2016	5	23	UNIDENTIFIED FISHERY INTERACTION	MONTEREY	CA	SI (PRORATE)	WHALE NOT MOVING, WITH ASSOCIATED LINE AND ORANGE BUOY. IN SAME AREA AS 9/26/2016 HUMPBACK WHALE THAT WAS NOT MOVING AND TOWING 4 ORANGE POLYBALLS. AMOUNT AND CONFIGURATION OF GEAR UNKNOWN. EVIDENCE ANIMAL IS ANCHORED.	SI (PRORATE)	L10	0.75	Y	Y
UNIDENTIFIED WHALE	NA	2018	5	13	UNIDENTIFIED FISHERY INTERACTION	VENTURA	CA	SI (PRORATE)	UNIDENTIFIED WHALE SWIMMING NORTH JUST OUTSIDE SURF LINE TRAILING A STYROFOAM BUOY NEAR THE DORSAL FIN. GEAR TYPE, AMOUNT AND CONFIGURATION UNKNOWN.	SI (PRORATE)	L10	0.75	Y	Y
UNIDENTIFIED WHALE	NA	2018	6	2	VESSEL STRIKE	VENTURA	CA	SI (PRORATE)	A CONTAINER VESSEL (HORIZON SPIRIT) STRUCK A WHALE APPROXIMATELY 12NM SW OF SAN NICOLAS ISLAND. VESSEL REDUCED SPEED AFTER IMPACT. WHALE WAS ESTIMATED AT 45 FT IN LENGTH. NO ADDITIONAL DETAILS. SERIOUS INJURY BASED ON SIZE OF VESSEL AND ASSUMED TRAVEL SPEED (>10 KTS) IN THIS VICINITY.	SI	L6A	1	N	Y
UNIDENTIFIED WHALE	NA	2018	8	20	UNIDENTIFIED FISHERY INTERACTION	CURRY	OR	SI (PRORATE)	REPORT OF A WHALE TRAILING AN ORANGE BUOY FROM ITS MOUTH. GEAR CONFIGURATION AND AMOUNT UNKNOWN. NO PHOTOS OR ADDITIONAL DETAILS.	SI (PRORATE)	L10	0.75	Y	Y
UNIDENTIFIED WHALE	NA	2018	10	2	VESSEL STRIKE	MONTEREY	CA	SI (PRORATE)	NEWS REPORT: A BREACHING WHALE CAUSED A 10-FOOT-LONG BOAT TO CAPSIZE WITH SEVEN PEOPLE ONBOARD IN BREAKWATER COVE. NO DETAILS ON POTENTIAL INJURY TO WHALE. PRORATED SERIOUS INJURY UNDER CRITERION NEWS REPORT: OFF HOPKINS POINT, ACCORDING TO WITNESS MARGE BRIGADIER, A MAN WHO WAS BOATING WITH THE WOMAN SAID THEY WERE CRUISING THROUGH THE WATER WHEN THEY HIT A BUMP. "THEY HIT SOMETHING THAT HE THOUGHT COULD ONLY HAVE BEEN A WHALE. WOMAN WAS THROWN AGAINST A 20-FOOT-LONG POWER BOAT'S GLASS WINDSHIELD AND SUFFERED MODERATE INJURIES TO HER HEAD AND ARM. NEWS VIDEO SHOWS BROKEN WINDSHIELD AND BLOOD. NO DETAILS ON POTENTIAL INJURY TO WHALE. PRORATED SERIOUS INJURY UNDER CRITERION L6B.	SI (PRORATE)	L7B	0.14	N	Y
UNIDENTIFIED WHALE	NA	2018	10	2	VESSEL STRIKE	MONTEREY	CA	SI (PRORATE)	NEWS REPORT: A BREACHING WHALE CAUSED A 10-FOOT-LONG BOAT TO CAPSIZE WITH SEVEN PEOPLE ONBOARD IN BREAKWATER COVE. NO DETAILS ON POTENTIAL INJURY TO WHALE. PRORATED SERIOUS INJURY UNDER CRITERION	SI (PRORATE)	L7B	0.14	N	Y

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UNIDENTIFIED WHALE	NA	2018	10	2	VESSEL STRIKE	MONTEREY	CA	SI (PRORATE)	NEWS REPORT: OFF HOPKINS POINT, ACCORDING TO WITNESS MARGE BRIGADIER, A MAN WHO WAS BOATING WITH THE WOMAN SAID THEY WERE CRUISING THROUGH THE WATER WHEN THEY HIT A BUMP. "THEY HIT SOMETHING THAT HE THOUGHT COULD ONLY HAVE BEEN A WHALE. WOMAN WAS THROWN AGAINST A 20-FOOT-LONG POWER BOAT'S GLASS WINDSHIELD AND SUFFERED MODERATE INJURIES TO HER HEAD AND ARM. NEWS VIDEO SHOWS BROKEN WINDSHIELD AND BLOOD. NO DETAILS ON POTENTIAL INJURY TO WHALE. PRORATED SERIOUS INJURY UNDER CRITERION L6B.	SI (PRORATE)	L6B	0.2	N	Y